FILED
JUN 15 2015
Clerk's Office
N.C. Utilities Commission

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INFORMATION SHEET

PRESIDING: Commissioner Brown-Bland, Chairman Finley and Commissioners Beatty, Bailey, Dockham and Patterson
PLACE: Dobbs Building, Raleigh, NC
DATE: June 2, 2015
TIME: 9:40 a.m. – 9:52 a.m.
DOCKET NO.: E-7, Sub 1073
COMPANY: Duke Energy Carolinas, LLC
DESCRIPTION: Application for Approval of demand-Side Management and Energy Efficiency Cost Recovery Rider Pursuant to G.S. 62-133.9 and Commission Rule R8-69.
VOLUME:

APPEARANCES

DUKE ENERGY CAROLINAS, LLC:
Robert W. Kaylor, Esq.

FOR CAROLINA UTILITY CUSTOMERS ASSOCIATION, INC.:
Robert F. Page, Esq.

FOR NORTH CAROLINA SUSTAINABLE ENERGY ASSOCIATION:
Peter Ledford, Esq.

FOR CAROLINA INDUSTRIAL GROUP FOR FAIR UTILITY RATES, III:
Adam Olls, Esq.

FOR SOUTHERN ALLIANCE FOR CLEAN ENERGY:
Gudrun Thompson, Esq.

FOR THE USING AND CONSUMING PUBLIC:
Lucy E. Edmondson, Esq.

WITNESSES

Prefiled Testimony of:

Conitsha Barnes	Carolyn Miller
Roshena Ham	Taylor Allred
Jack L. Floyd	Michael C. Maness

EXHIBITS

✓ Duke Energy Carolinas, LLC, Application & Amended Application (A)
✓ Barnes Direct Exhibits 1 – 11 (I/A)
✓ Miller Exhibits 1 – 7 (I/A)
✓ Ham Exhibits 1 – 2 (I/A)
✓ Allred Exhibits 1 – 2 (I/A)
✓ NCSEA Exhibits 1 – 2 (I/A)
✓ Barnes Supplemental Exhibits 1 – 4 (I/A)
✓ Miller Supplemental Exhibits 1 – 7 (I/A)
Ham Exhibits A – I (I/A)
✓ Maness Exhibit 1 (I/A)

COPIES ORDERED: E-mail: Kaylor, Ledford, Edmondson
REPORTED BY: Kim Mitchell
TRANSCRIBED BY: Kim Mitchell
DATE TRANSCRIBED: June 12, 2015

TRANSCRIPT PAGES: 21
PREFILED PAGES: 132

NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP

DATE June 2, 2015 DOCKET #: E-7, Sub 1073
NAME AND TITLE OF ATTORNEY Robert W. Kaylor
FIRM NAME Law Office of Robert W. Kaylor, P.A.
ADDRESS 353 E. Six Forks Rd., Ste 260
CITY Raleigh NC ZIP 27609

APPEARING FOR: Duke Energy Carolinas, LLC

APPLICANT ✓ COMPLAINANT _____ INTERVENER _____
PROTESTANT _____ RESPONDENT _____ DEFENDANT _____

PLEASE NOTE: Electronic Copies of the regular transcript can be obtained from the NCUC web site at HTTP://NCUC.commerce.state.nc.us/docksrch.html under the respective docket number.

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Name: _____
Phone #: 919 828 5250
Email: bkaylor@rwkaylorlaw.com

Signature: RW Kaylor

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Signature: _____

NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP

DATE June 2, 2015 DOCKET #: E-7, Sub 1072 & 1073
NAME AND TITLE OF ATTORNEY Adam Olis - Attorney for CIGFUR
FIRM NAME Bailey & Dixon
ADDRESS 434 Fayetteville Street, Suite 2500
CITY Raleigh ZIP 27601

APPEARING FOR:

APPLICANT _____ COMPLAINANT _____ INTERVENER ✓
PROTESTANT _____ RESPONDENT _____ DEFENDANT _____

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NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP

DATE Mar 2, 2015 DOCKET #: E-7, Sub 1072, E-7, Sub 1073, E-7, Sub 1074
NAME AND TITLE OF ATTORNEY Robert F. Page
FIRM NAME Crisp, Page & Currin, LLP
ADDRESS 4010 Barrett Drive, Suite 205
CITY Raleigh ZIP NC 27609

APPEARING FOR: Carolina Utility Customers Association

APPLICANT _____ COMPLAINANT _____ INTERVENER ✓
PROTESTANT _____ RESPONDENT _____ DEFENDANT _____

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Signature: _____

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Signature: _____

NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP

DATE June 2, 2015 DOCKET #: E-7 Sub 1072, Sub 1073 Sub 1074
NAME AND TITLE OF ATTORNEY Peter Ledford, Regulatory Counsel
FIRM NAME NC Sustainable Energy Association
ADDRESS 4800 Six Forks Road, Suite 300
CITY Raleigh, NC ZIP 27609

APPEARING FOR: NC Sustainable Energy Association

APPLICANT _____ COMPLAINANT _____ INTERVENER X
PROTESTANT _____ RESPONDENT _____ DEFENDANT _____

PLEASE NOTE: Electronic Copies of the regular transcript can be obtained from the NCUC web site at HTTP://NCUC.commerce.state.nc.us/docksrch.html under the respective docket number.

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Name: Peter Ledford
Phone #: 919-832-7601 x 107
Email: peter@energync.org

Signature: _____

PLEASE SIGN BELOW IF YOU HAVE SIGNED A CONFIDENTIALITY AGREEMENT. CONFIDENTIAL PORTIONS OF TRANSCRIPT WILL ONLY BE PROVIDED UPON SIGNATURE!

Signature: _____

NORTH CAROLINA UTILITIES COMMISSION
APPEARANCE SLIP

DATE 6/2/15 DOCKET #: E-7, Sub 1073
NAME AND TITLE OF ATTORNEY Gudrun Thompson
FIRM NAME Southern Environmental Law Center
ADDRESS 601 W. Rosemary St., Ste 220
CITY Chapel Hill NC ZIP 27516

APPEARING FOR: Southern Alliance for Clean Energy

APPLICANT _____ COMPLAINANT _____ INTERVENER ✓
PROTESTANT _____ RESPONDENT _____ DEFENDANT _____

PLEASE NOTE: Electronic Copies of the regular transcript can be obtained from the NCUC web site at HTTP://NCUC.commerce.state.nc.us/docksrch.html under the respective docket number.

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Phone #: _____
Email: _____

Signature: _____

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Signature: _____

NORTH CAROLINA UTILITIES COMMISSION
PUBLIC STAFF - APPEARANCE SLIP

DATE June 2, 2015 DOCKET #: E-7, Sub 1073

PUBLIC STAFF MEMBER Lucy E. Edmondson

ORDER FOR TRANSCRIPT OF TESTIMONY TO BE **EMAILED** TO THE PUBLIC STAFF - PLEASE INDICATE YOUR DIVISION AS WELL AS YOUR EMAIL ADDRESS BELOW:

ACCOUNTING _____
WATER _____
COMMUNICATIONS _____
ELECTRIC _____
GAS _____
TRANSPORTATION _____
ECONOMICS _____
LEGAL **lucy.edmondson@psncuc.nc.gov**
LEGAL _____
CONSUMER SERVICES _____

PLEASE NOTE: Electronic Copies of the regular transcript can be obtained from the NCUC web site at HTTP://NCUC.commerce.state.nc.us/docksrch.html under the respective docket number.

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_____

_____

_____
Signature of Public Staff Member

Admitted

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Mar 04 2015

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-7, SUB 1073

In the Matter of Application of Duke Energy Carolinas, LLC for Approval of Demand-Side Management and Energy Efficiency Cost Recovery Rider Pursuant to N.C. Gen. Stat. § 62-133.9 and Commission Rule R8-69	))))))	**APPLICATION OF DUKE ENERGY CAROLINAS, LLC FOR APPROVAL OF RIDER 7**

Duke Energy Carolinas, LLC ("DEC," "Company," or "Applicant"), pursuant to North Carolina General Statutes ("N.C. Gen. Stat.") § 62-133.9 and North Carolina Utilities Commission (the "Commission") Rule R8-69, hereby applies to the Commission for approval of its demand-side management ("DSM") and energy efficiency ("EE") cost recovery rider, Rider EE, for 2016 ("Rider 7"). Rider 7 encompasses components relating to both DEC's save-a-watt pilot approved in Docket No. E-7, Sub 831,[1] as well as the new cost recovery mechanism and portfolio of programs approved by the Commission in Docket No. E-7, Sub 1032. The prospective components of Rider 7 include estimates of the revenue requirements for Vintage 2016[2] DSM and EE programs under the new mechanism; and an estimate of the third year of net lost revenues for Vintage 2014 EE programs and the second year of net lost revenues for Vintage 2015 EE programs under the new mechanism. The

[1] The save-a-watt pilot, which included DEC's initial portfolio of DSM and EE programs and modified save-a-watt cost recovery mechanism, expired December 31, 2013. However, because net lost revenue recovery and true-ups of prior vintages extend beyond the expiration of the pilot, components relating to the save-a-watt pilot are included in Rider 6.

[2] A vintage year is the twelve-month period in which a specific DSM or EE measure is installed for an individual participant or a group of participants. The vintage concept is employed under save-a-watt as well as the new mechanism. To distinguish from the four save-a-watt vintages (which are numbered 1, 2, 3, and 4), each vintage under the new mechanism is referred to by the calendar year of its respective rate period (*e.g.*, Vintage 2016).

Rider 7 Experience Modification Factor ("EMF") includes the following true-ups: a true-up of Vintage 2014 DSM and EE programs; and the final true-up of the save-a-watt pilot.

In support of this Application, DEC respectfully shows the Commission the following:

1. The Applicant's general offices are located at 550 South Tryon Street, Charlotte, North Carolina, and its mailing address is:

Duke Energy Carolinas, LLC
P. O. Box 1006
Charlotte, North Carolina 28201-1006

2. The names and addresses of Applicant's attorneys are:

Brian L. Franklin, Associate General Counsel
Duke Energy Carolinas, LLC
DEC45A/P.O. Box 1321
Charlotte, North Carolina 28201-1006
(980) 373-4465
Brian.Franklin@duke-energy.com

Molly L. McIntosh
Troutman Sanders LLP
One Wells Fargo, Suite 3400
301 South College Street
Charlotte, North Carolina 28202
(704) 998-4074
Molly.McIntosh@troutmansanders.com

3. N.C. Gen. Stat. § 62-133.9(d) authorizes the Commission to approve an annual rider to the rates of electric public utilities to recover all reasonable and prudent costs incurred for the adoption and implementation of new DSM and EE programs. Recoverable costs include, but are not limited to, all capital costs, including cost of capital and depreciation expense, administrative costs, implementation costs, incentive payments to program participants, and operating

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costs. Such rider shall consist of the utility's forecasted cost during the rate period and an EMF rider to collect the difference between the utility's actual reasonable and prudent costs incurred during the test period and actual revenues realized during the test period. The Commission is also authorized to approve incentives for adopting and implementing new DSM and EE programs, including appropriate rewards based on capitalization of a percentage of avoided costs achieved by DSM and EE measures.

4. The Commission approved DEC's save-a-watt portfolio of DSM and EE measures in Docket No. E-7, Sub 831 on February 26, 2009, and approved the modified save-a-watt compensation mechanism, as set forth in the Agreement and Joint Stipulation of Settlement between DEC, the Public Staff, and Southern Alliance for Clean Energy ("SACE"), Environmental Defense Fund ("EDF"), Natural Resources Defense Council ("NRDC"), and the Southern Environmental Law Center ("Save-a-Watt Settlement"), in its *Order Approving Agreement and Joint Stipulation of Settlement Subject to Certain Commission-Required Modifications and Decisions on Contested Issues* issued February 9, 2010 in Docket No. E-7, Sub 831. The approved cost recovery model provides that DEC will be compensated based on predetermined percentages of the Company's capacity- and energy-related "avoided costs," an estimate of the cost of supplying electricity. These percentages include 75% of avoided capacity costs for DSM programs, and 50% of the net present value ("NPV") of the avoided energy costs plus 50% of the NPV of avoided capacity costs for EE programs. The Commission also authorized DEC to recover net lost revenues for 36 months for each installation of an EE measure during a given vintage year.

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5. The Commission-approved Save-a-Watt Settlement provides for a series of participation true-ups that will be conducted to update revenue requirements, including net lost revenues, based on actual customer participation results for each vintage. The participation true-ups for each vintage will incorporate the difference between the amount of revenues that DEC is permitted to collect under the Save-a-Watt Settlement based on actual participation levels applied to the initial assumptions of load impact or independently measured and verified results as described in the Evaluation, Measurement and Verification Agreement reached by DEC, SACE, and the Public Staff and approved by the Commission in its *Order Approving DSM/EE Rider and Requiring Filing of Proposed Customer Notice* issued November 8, 2011 in Docket No. E-7, Sub 979 ("EM&V Agreement").

6. The Save-a-Watt Settlement calls also for a final true-up, which includes a final comparison of the revenues collected from customers through Rider EE during the modified save-a-watt pilot to the amount of revenue DEC is authorized to collect from customers based on the independently measured and verified results. The final true-up process also includes calculations that determine the earnings for the entire program and ensure that the level of compensation recovered by DEC is capped so that the after-tax rate of return on actual program costs applicable to DSM and EE programs does not exceed the predetermined earnings cap levels set out in the Save-a-Watt Settlement.

7. The Company's new cost recovery mechanism, which replaces the modified save-a-watt compensation mechanism, is described in the Agreement and Stipulation of Settlement DEC reached with the Public Staff, the North Carolina

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Sustainable Energy Association, EDF, SACE, the South Carolina Coastal Conservation League, NRDC, and the Sierra Club filed with the Commission on August 19, 2013 (the "Stipulation"). The Commission approved the new mechanism as described in the Stipulation, as well as DEC's new portfolio of DSM and EE programs, in its *Order Approving DSM/EE Programs and Stipulation of Settlement* issued October 29, 2013 ("Sub 1032 Order"). The new mechanism is designed to allow DEC to collect revenue equal to its incurred program costs for a rate period plus a Portfolio Performance Incentive based on shared savings achieved by DEC's DSM and EE programs, and to recover net lost revenues for EE programs only.

8. Rule R8-69(b) provides the Commission will each year conduct a proceeding for each electric public utility to establish an annual DSM/EE rider to recover DSM/EE related costs.

9. Pursuant to the provisions of N.C. Gen. Stat. § 62-133.9 and Rule R8-69, DEC requests the establishment of Rider 7 to recover: (1) a prospective component consisting of the estimated revenue requirements associated with Vintage 2016 of DEC's current portfolio of DSM/EE programs, the second year of net lost revenues for Vintage 2015 of DEC's EE programs, the third year of net lost revenues for Vintage 2014 of DEC's EE programs; and (2) an EMF component truing up Vintage 2014 of DEC's EE/DSM programs and the final true-up of the save-a-watt pilot.

10. Pursuant to the provisions of N.C. Gen. Stat. § 62-133.9 and Rule R8-69, the Company requests Commission approval of the following annual billing adjustments (all shown on a cents per kWh basis, including gross receipts tax and

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regulatory fee):

Residential Billing Factors	**¢/kWh**
Residential Billing Factor for Rider 7 Prospective Components	0.0251
Residential Billing Factor for Rider 7 EMF Components	0.3324

Non-Residential Billing Factors for Rider 7 Prospective Components	**¢/kWh**
Vintage 2014 EE participant	0.0256
Vintage 2015 EE participant	0.0345
Vintage 2016 EE Participant	0.2164
Vintage 2016 DSM participant	0.0709

Non-Residential Billing Factors EMF Component	**¢/kWh**
Vintage 2014 EE Participant	0.0149
Vintage 2014 DSM Participant	(0.0043)
Vintage 4 EE participant	0.0330
Vintage 4 DSM participant	0.0003
Vintage 3 EE participant	0.0259
Vintage 3 DSM participant	(0.0008)
Vintage 2 EE participant	0.0146
Vintage 2 DSM participant	0.0018
Vintage 1 EE participant	0.0025
Vintage 1 DSM participant	0.0016

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Consistent with the Commission's *Order on Motions for Reconsideration* issued on June 3, 2010 in Docket No. E-7, Sub 938 and the Sub 1032 Order, Rider 7 will be in effect for the twelve month period January 1, 2016 through December 31, 2016. Also in accordance with this Order, the test period for the Vintage 2014 EMF component is the period from January 1, 2014 through December 31, 2014; the test period for the EMF related to the final true-up includes the save-a-watt vintages: Vintage 1 (June 1, 2009 through December 31, 2010); Vintage 2 (January 1, 2011 through December 31, 2011); Vintage 3 (January 1, 2012 through December 31, 2012); and Vintage 4 (January 1, 2013 through December 31, 2013).

11. The Company has attached hereto as required by Rule R8-69, the direct testimony and exhibits of witnesses Carolyn T. Miller, Conitsha Barnes, and Roshena M. Ham in support of the requested change in rates.

WHEREFORE, the Company respectfully prays:

That consistent with this Application, the Commission approves the changes to its rates as set forth in paragraph 10 above.

Respectfully submitted, this the 4th day of March 2015.

Brian L. Franklin
Associate General Counsel
Duke Energy Corporation
550 South Tryon Street
DEC45A/P.O. Box 1321
Charlotte, North Carolina 28201
Telephone: 980-373-4465
brian.franklin@duke-energy.com

Molly L. McIntosh
Troutman Sanders LLP

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Mar 04 2015

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301 South College Street
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ATTORNEYS FOR DUKE ENERGY CAROLINAS, LLC

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Mar 04 2015

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STATE OF NORTH CAROLINA)
) VERIFICATION
COUNTY OF MECKLENBURG)

Carolyn T. Miller, being first duly sworn, deposes and says:

That she is MANAGER, RATES AND REGULATORY STRATEGY of DUKE ENERGY CAROLINAS, LLC, applicant in the above-titled action; that she has read the foregoing Application and knows the contents thereof; that the same is true except as to the matters stated therein on information and belief; and as to those matters, she believes it to be true.

Carolyn T. Miller

Carolyn T. Miller

Sworn to and subscribed before me
this the 2nd day of March, 2015.

Georgene Fisher

Notary Public

My Commission Expires: October 31, 2015

GEORGENE FISHER
NOTARY
My Comm. Exp.
October 31, 2015
PUBLIC
MECKLENBURG COUNTY, N. C.

Admitted

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Mar 16 2015

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

DOCKET NO. E-7, SUB 1073

In the Matter of Application of Duke Energy Carolinas, LLC for Approval of Demand-Side Management and Energy Efficiency Cost Recovery Rider Pursuant to N.C. Gen. Stat. § 62-133.9 and Commission Rule R8-69	))))))	**APPLICATION OF DUKE ENERGY CAROLINAS, LLC FOR APPROVAL OF RIDER 7**

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[2] A vintage year is the twelve-month period in which a specific DSM or EE measure is installed for an individual participant or a group of participants. The vintage concept is employed under save-a-watt as well as the new mechanism. To distinguish from the four save-a-watt vintages (which are numbered 1, 2, 3, and 4), each vintage under the new mechanism is referred to by the calendar year of its respective rate period (*e.g.*, Vintage 2016).

Rider 7 Experience Modification Factor ("EMF") includes the following true-ups: a true-up of Vintage 2014 DSM and EE programs; and the final true-up of the save-a-watt pilot.

In support of this Application, DEC respectfully shows the Commission the following:

1. The Applicant's general offices are located at 550 South Tryon Street, Charlotte, North Carolina, and its mailing address is:

Duke Energy Carolinas, LLC
P. O. Box 1006
Charlotte, North Carolina 28201-1006

2. The names and addresses of Applicant's attorneys are:

Brian L. Franklin, Associate General Counsel
Duke Energy Carolinas, LLC
DEC45A/P.O. Box 1321
550 South Tryon Street
Charlotte, North Carolina 28201
(980) 373-4465
Brian.Franklin@duke-energy.com

Molly L. McIntosh
Troutman Sanders LLP
One Wells Fargo, Suite 3400
301 South College Street
Charlotte, North Carolina 28202
(704) 998-4074
Molly.McIntosh@troutmansanders.com

3. N.C. Gen. Stat. § 62-133.9(d) authorizes the Commission to approve an annual rider to the rates of electric public utilities to recover all reasonable and prudent costs incurred for the adoption and implementation of new DSM and EE programs. Recoverable costs include, but are not limited to, all capital costs, including cost of capital and depreciation expense, administrative costs,

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implementation costs, incentive payments to program participants, and operating costs. Such rider shall consist of the utility's forecasted cost during the rate period and an EMF rider to collect the difference between the utility's actual reasonable and prudent costs incurred during the test period and actual revenues realized during the test period. The Commission is also authorized to approve incentives for adopting and implementing new DSM and EE programs, including appropriate rewards based on capitalization of a percentage of avoided costs achieved by DSM and EE measures.

4. The Commission approved DEC's save-a-watt portfolio of DSM and EE measures in Docket No. E-7, Sub 831 on February 26, 2009, and approved the modified save-a-watt compensation mechanism, as set forth in the Agreement and Joint Stipulation of Settlement between DEC, the Public Staff, and Southern Alliance for Clean Energy ("SACE"), Environmental Defense Fund ("EDF"), Natural Resources Defense Council ("NRDC"), and the Southern Environmental Law Center ("Save-a-Watt Settlement"), in its *Order Approving Agreement and Joint Stipulation of Settlement Subject to Certain Commission-Required Modifications and Decisions on Contested Issues* issued February 9, 2010 in Docket No. E-7, Sub 831. The approved cost recovery model provides that DEC will be compensated based on predetermined percentages of the Company's capacity- and energy-related "avoided costs," an estimate of the cost of supplying electricity. These percentages include 75% of avoided capacity costs for DSM programs, and 50% of the net present value ("NPV") of the avoided energy costs plus 50% of the NPV of avoided capacity costs for EE programs. The Commission also authorized DEC to recover net lost revenues

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for 36 months for each installation of an EE measure during a given vintage year.

5. The Commission-approved Save-a-Watt Settlement provides for a series of participation true-ups that will be conducted to update revenue requirements, including net lost revenues, based on actual customer participation results for each vintage. The participation true-ups for each vintage will incorporate the difference between the amount of revenues that DEC is permitted to collect under the Save-a-Watt Settlement based on actual participation levels applied to the initial assumptions of load impact or independently measured and verified results as described in the Evaluation, Measurement and Verification Agreement reached by DEC, SACE, and the Public Staff and approved by the Commission in its *Order Approving DSM/EE Rider and Requiring Filing of Proposed Customer Notice* issued November 8, 2011 in Docket No. E-7, Sub 979 ("EM&V Agreement").

6. The Save-a-Watt Settlement calls also for a final true-up, which includes a final comparison of the revenues collected from customers through Rider EE during the modified save-a-watt pilot to the amount of revenue DEC is authorized to collect from customers based on the independently measured and verified results. The final true-up process also includes calculations that determine the earnings for the entire program and ensure that the level of compensation recovered by DEC is capped so that the after-tax rate of return on actual program costs applicable to DSM and EE programs does not exceed the predetermined earnings cap levels set out in the Save-a-Watt Settlement.

7. The Company's new cost recovery mechanism, which replaces the modified save-a-watt compensation mechanism, is described in the Agreement and

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Stipulation of Settlement DEC reached with the Public Staff, the North Carolina Sustainable Energy Association, EDF, SACE, the South Carolina Coastal Conservation League, NRDC, and the Sierra Club filed with the Commission on August 19, 2013 (the "Stipulation"). The Commission approved the new mechanism as described in the Stipulation, as well as DEC's new portfolio of DSM and EE programs, in its *Order Approving DSM/EE Programs and Stipulation of Settlement* issued October 29, 2013 ("Sub 1032 Order"). The new mechanism is designed to allow DEC to collect revenue equal to its incurred program costs for a rate period plus a Portfolio Performance Incentive based on shared savings achieved by DEC's DSM and EE programs, and to recover net lost revenues for EE programs only.

8. Rule R8-69(b) provides the Commission will each year conduct a proceeding for each electric public utility to establish an annual DSM/EE rider to recover DSM/EE related costs.

9. Pursuant to the provisions of N.C. Gen. Stat. § 62-133.9 and Rule R8-69, DEC requests the establishment of Rider 7 to recover: (1) a prospective component consisting of the estimated revenue requirements associated with Vintage 2016 of DEC's current portfolio of DSM/EE programs, the second year of net lost revenues for Vintage 2015 of DEC's EE programs, the third year of net lost revenues for Vintage 2014 of DEC's EE programs; and (2) an EMF component truing up Vintage 2014 of DEC's EE/DSM programs and the final true-up of the save-a-watt pilot.

10. Pursuant to the provisions of N.C. Gen. Stat. § 62-133.9 and Rule R8-69, the Company requests Commission approval of the following annual billing

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adjustments (all shown on a cents per kWh basis, including gross receipts tax and regulatory fee):

Residential Billing Factors	**¢/kWh**
Residential Billing Factor for Rider 7 Prospective Components	0.3324
Residential Billing Factor for Rider 7 EMF Components	0.0250

Non-Residential Billing Factors for Rider 7 Prospective Components	**¢/kWh**
Vintage 2014 EE participant	0.0256
Vintage 2015 EE participant	0.0345
Vintage 2016 EE Participant	0.2164
Vintage 2016 DSM participant	0.0709

Non-Residential Billing Factors EMF Component	**¢/kWh**
Vintage 2014 EE Participant	0.0150
Vintage 2014 DSM Participant	(0.0044)
Vintage 4 EE participant	0.0330
Vintage 4 DSM participant	0.0003
Vintage 3 EE participant	0.0259
Vintage 3 DSM participant	(0.0008)
Vintage 2 EE participant	0.0146
Vintage 2 DSM participant	0.0018
Vintage 1 EE participant	0.0025
Vintage 1 DSM participant	0.0016

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Consistent with the Commission's *Order on Motions for Reconsideration* issued on June 3, 2010 in Docket No. E-7, Sub 938 and the Sub 1032 Order, Rider 7 will be in effect for the twelve month period January 1, 2016 through December 31, 2016. Also in accordance with this Order, the test period for the Vintage 2014 EMF component is the period from January 1, 2014 through December 31, 2014; the test period for the EMF related to the final true-up includes the save-a-watt vintages: Vintage 1 (June 1, 2009 through December 31, 2010); Vintage 2 (January 1, 2011 through December 31, 2011); Vintage 3 (January 1, 2012 through December 31, 2012); and Vintage 4 (January 1, 2013 through December 31, 2013).

11. The Company has attached hereto as required by Rule R8-69, the direct testimony and exhibits of witnesses Carolyn T. Miller, Conitsha Barnes, and Roshena M. Ham in support of the requested change in rates.

WHEREFORE, the Company respectfully prays:

That consistent with this Application, the Commission approves the changes to its rates as set forth in paragraph 10 above.

Respectfully submitted, this the 16th day of March 2015.

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ATTORNEYS FOR DUKE ENERGY CAROLINAS, LLC

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STATE OF NORTH CAROLINA)
) VERIFICATION
COUNTY OF MECKLENBURG)

Carolyn T. Miller, being first duly sworn, deposes and says:

That she is MANAGER, RATES AND REGULATORY STRATEGY of DUKE ENERGY CAROLINAS, LLC, applicant in the above-titled action; that she has read the foregoing Application and knows the contents thereof; that the same is true except as to the matters stated therein on information and belief; and as to those matters, she believes it to be true.

Carolyn T Miller
Carolyn T. Miller

Sworn to and subscribed before me
this the 16 day of March, 2015.

Georgene Fisher
Notary Public

My Commission Expires: October 31, 2015

GEORGENE FISHER
NOTARY
My Comm. Exp.
October 31, 2015
PUBLIC
MECKLENBURG COUNTY, N. C.

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Duke Energy Carolinas, LLC
EE Vintage 1 (June 1, 2009 - December 31, 2009)
Docket Number E-7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program

Residential Programs

Line		System kW Reduction - Summer Peak	System Energy Reduction (kWh)	A System Avoided Cost Revenue Requirement @50%	B System Avoided Cost @ 100%	C NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg 1)	D NC Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
1	Residential Energy Assessments	1,057	8,369,462	$ 1 106,481	$ 2 212,962	73 0077318%	$ 807,817
2	Smart Saver® for Residential Customers	1,592	12,547,819	1 940,744	3,881,488	73 0077318%	1,416,893
3	Low Income Energy Efficiency and Weatherization Assistance	143	1,354,096	141,337	282,675	73 0077318%	103,187
4	Energy Efficiency Education Program for Schools	56	303,763	55,373	110,746	73 0077318%	40,427
5	Total for Residential Conservation Programs	2,849	22,575,141	$ 3,243,936	$ 6,487,871		$ 2,368,324

				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 1)	A6 * C6
6	**Total DSM Programs (at 75% Avoided Cost)**	116,172		$ 4,655,124	$ 6,206,832	33 9010659%	$ 1,578,137

Non-Residential Programs

Line		System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 1)	NC Non-Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
7	Smart Saver® for Non-Residential Customers Lighting	5,267	28,004,505	$ 5,247,545	$ 10,495,089	73 0077318%	$ 3 831,113
8	Smart Saver® for Non-Residential Customers Motors	124	624,404	183 846	367,691	73 0077318%	134,222
9	Smart Saver® for Non-Residential Customers Other Prescriptive (Process Equipment)	-	-			73 0077318%	
10	Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	46	257,738	67,096	134,192	73 0077318%	48,985
11	Smart Saver® for Non Residential Customers HVAC	267	765,127	295,533	591,065	73 0077318%	215,762
12	Smart Saver® for Non-Residential Customers - Custom Rebate	19	232,797	30,165	60,330	73 0077318%	22,023
13	Total for Non-Residential Conservation Programs	5,724	29,884,571	$ 5,824,184	$ 11,648,368		$ 4,252,105

				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg. 1)	A14* C14
14	**Total DSM Programs (at 75% Avoided Cost)**	116,172		$ 4,655 124	$ 6,206,832	39 9179344%	$ 1,858,229

				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Retail Peak Demand Allocation Factor (Miller Exhibit 5, Pg 1)	A17* C17
	Total DSM Program Breakdown						
15	Power Manager (Residential)	57,494	-	$ 3,082,269	$ 4,109,692		
16	Power Share (Non Residential)	58,678	-	1,572,855	2,097,140		
17	Total DSM	116,172	-	$ 4,655,124	$ 6,206,833	73 8190004%	$ 3,436 366

(1) Total System DSM programs allocated to Residential and Non Residential based on contribution to retail system pea
Note Schedule may not foot due to rounding

Duke Energy Carolinas, LLC
EE Vintage 1 (January 1, 2010 - December 31, 2010)
Docket Number E-7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program

Line	Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	A System Avoided Cost Revenue Requirement @50%	B System Avoided Cost @ 100%	C NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg 2)	D NC Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
1	Residential Energy Assessments	1,563	11 178 033	$ 1,549,017	$ 3 098 024	72 7072722%	$ 1 126,244
2	Smart Saver® for Residential Customers	41,497	381,777,103	42,560 548	85 121,096	72 7072722%	30 944,613
3	Low Income Energy Efficiency and Weatherization Assistance	599	5 663,263	591 118	1 182,736	72 7072722%	429,786
4	Energy Efficiency Education Program for Schools	469	2 526,416	460 540	921 080	72 7072722%	334,846
5	Residential Retrofit Pilot					72 7072722%	
6	Home Energy Comparison Report (My Home Energy Report)	159	854,645	24,503	49,006	72 7072722%	17,815
7	Total for Residential Conservation Programs	44,287	401,999,460	$ 45,185,721	$ 90,371,442		$ 32,853,305
				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 2)	A8 * C8
8	**Total DSM Programs (at 75% Avoided Cost)**	438 636		$ 23 481,287	$ 31,308,383	34 4404513%	$ 8,087,061

	Non-Residential Programs	System kW Reduction Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg 2)	NC Non-Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
9	Smart Saver® for Non-Residential Customers Lighting	13,466	68,411,677	$ 13,710 093	$ 27 420 185	72 7072722%	$ 9 968,234
10	Smart Saver® for Non Residential Customers Motors	533	2,724,749	798,480	1,596 959	72 7072722%	580 553
11	Smart Saver® for Non Residential Customers - Other Prescriptive (Process Equipment)	0	380	44	87	72 7072722%	32
12	Smart Saver® for Non Residential Customers Energy Star Food Service Products	155	788,310	191,588	383,176	72 7072722%	139 298
13	Smart Saver® for Non Residential Customers HVAC	1 586	3,964,553	1 734,583	3,469 166	72 7072722%	1 261,168
14	Smart Saver® for Non-Residential Customers Custom Rebate	2,716	21,205,380	3,608,163	7,216,325	72 7072722%	2,623,397
15	Total for Non Residential Conservation Programs	18 456	97,095,050	$ 20 042,949	$ 40 085 899		$ 14,572,682
				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 2)	A16* C16
16	**Total DSM Programs (at 75% Avoided Cost)**	438,636		$ 23,481,287	$ 31,308 383	40 3489126%	$ 9,474,444
				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Retail Peak Demand Allocation Factor (Miller Exhibit 5, Pg 2)	A19* C19
	Total DSM Program Breakdown						
17	Power Manager (Residential)	228 421		$ 12,245,662	$ 16,327 550		
18	Power Share (Non Residential)	210,215		11,235,625	14,980 833		
19	Total DSM	438,636		$ 23,481,287	$ 31,308,383	74 7893638%	$ 17,561,505

(1) Total System DSM programs allocated to Residential and Non Residential based on contribution to retail system peak
Note Schedule may not foot due to rounding

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Duke Energy Carolinas, LLC
EE Vintage 2 (January 1, 2011 - December 31, 2011)
Docket Number E-7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program

Line	Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	A System Avoided Cost Revenue Requirement @ 50%	B System Avoided Cost @ 100%	C NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 3)	D NC Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
1	Residential Energy Assessments	1 306	9,227,946	$ 1,314,136	$ 2 628 271	72 6972151%	$ 955 340
2	Smart Saver® for Residential Customers	39,712	367,409,449	40,319,118	80,638,236	72 6972151%	29,310,876
3	Low Income Energy Efficiency and Weatherization Assistance	52	488,949	50,792	101 583	72 6972151%	36,924
4	Energy Efficiency Education Program for Schools	262	1,413,208	265,292	530 585	72 6972151%	192,860
5	Residential Retrofit Pilot	21	126,564	40,936	81 871	72 6972151%	29,759
6	Home Energy Comparison Report (My Home Energy Report)	66	356,218	30,711	61,423	72 6972151%	22,326
7	Total for Residential Conservation Programs	41,419	379,022,334	$ 42,020,984	$ 84,041,969		$ 30,548,085

				System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg. 3)	A8 * C8
8	**Total DSM Programs (at 75% Avoided Cost)**	548,335		$ 30,101,993	$ 40,135,991	32 2293181%	$ 9,701,667

	Non-Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @ 50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 3)	NC Non-Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
9	Smart Saver® for Non Residential Customers Lighting	11,329	64,190,217	$ 13,497,639	$ 26 995 278	72 6972151%	$ 9,812,407
10	Smart Saver® for Non-Residential Customers Motors	1,107	5,750,908	1 286 403	2,572 806	72 6972151%	935 179
11	Smart Saver® for Non-Residential Customers - Other Prescriptive (Process Equipment)	82	503,823	54,884	109,767	72 6972151%	39,899
12	Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	184	1,012,402	263,359	526,717	72 6972151%	191,454
13	Smart Saver® for Non-Residential Customers - HVAC	1 869	4,987,231	2,094,930	4,189 860	72 6972151%	1,522,956
14	Smart Saver® for Non-Residential Customers - Custom Rebate	6,585	55,974 704	11,605 896	23 211,792	72 6972151%	8,437,163
15	Smart Energy Now	692	21,876,936	2,164,517	4,329,034	72 6972151%	1,573,544
16	Total for Non-Residential Conservation Programs	21,848	154,296,221	$ 30,967,627	$ 61,935,253		$ 22,512,602

				System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 3)	A17* C17
17	**Total DSM Programs (at 75% Avoided Cost)**	548 335		$ 30,101,993	$ 40,135 991	42 2350050%	$ 12,713,578

	Total DSM Program Breakdown			System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Retail Peak Demand Allocation Factor (Miller Exhibit 5, Pg 3)	A20* C20
18	Power Manager (Residential)	226,935		$ 12,470 132	$ 16,626 843		
19	Power Share (Non Residential)	321,400		$ 17,631,861	$ 23,509,148		
20	Total DSM	548,335		$ 30,101,993	$ 40,135 991	74 4643230%	$ 22 415 245

(1) Total System DSM programs allocated to Residential and Non Residential based on contribution to retail system peak
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Duke Energy Carolinas, LLC
EE Vintage 3 (January 1, 2012 December 31, 2012)
Docket Number E 7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program

Line	Residential Programs	System kW Reduction Summer Peak	System Energy Reduction (kWh)	A System Avoided Cost Revenue Requirement @ 50%	B System Avoided Cost @ 100%	C NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg 4)	D NC Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
1	Appliance Recycling	143	1 038 548	$ 145 177	$ 290 354	72 7194575%	$ 105 572
2	Residential Energy Assessments	1 607	10 486 549	1 773 940	3 547 879	72 7194575%	1 289 999
3	Smart Saver® for Residential Customers	24 247	224 336 833	25 851 451	51 702 902	72 7194575%	18 799 035
4	Low Income Energy Efficiency and Weatherization Assistance					72 7194575%	
5	Energy Efficiency Education Program for Schools	1 748	9 422 807	1 781 282	3 562 564	72 7194575%	1 295 338
6	Residential Retrofit Pilot	47	283 678	94 987	189 973	72 7194575%	69 074
7	Home Energy Comparison Report (My Home Energy Report)	10 461	49 339 464	1 428 665	2 857 330	72 7194575%	1 038 918
8	Total for Residential Conservation Programs	38 253	294 907 880	$ 31 075 501	$ 62 151 002		$ 22 597 936

			System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 4)	A9 * C9
9	**Total DSM Programs (at 75% Avoided Cost)**	645 443	$ 36 331 282	$ 48 441 710	34 8388691%	$ 12 657 408

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	Non-Residential Programs	System kW Reduction Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @ 50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg 4)	NC Non Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
10	Smart Saver® for Non Residential Customers Lighting	12 689	73 807 092	$ 15 930 066	$ 31 860 133	72 7194575%	$ 11 584 258
11	Smart Saver® for Non Residential Customers Motors	1 132	5 967 650	1 386 295	2 772 590	72 7194575%	1 008 106
12	Smart Saver® for Non Residential Customers Other Prescriptive (Process Equipment)					72 7194575%	
13	Smart Saver® for Non Residential Customers Energy Star Food Service Products	366	1 950 854	513 211	1 026 423	72 7194575%	373 205
14	Smart Saver® for Non Residential Customers HVAC	1 716	4 120 481	2 004 592	4 009 184	72 7194575%	1 457 728
15	Smart Saver® for Non Residential Customers Custom Rebate	15 371	113 380 706	24 480 159	48 960 318	72 7194575%	17 801 839
16	Smart Energy Now	386	11 795 664	1 198 584	2 397 168	72 7194575%	871 604
17	Total for Non Residential Conservation Programs	31 660	211 022 446	$ 45 512 908	$ 91 025 815		$ 33 096 739

			System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Non Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 4)	A18* C18
18	**Total DSM Programs (at 75% Avoided Cost)**	645 443	$ 36 331 282	$ 48 441 710	39 8808428%	$ 14 489 221

	Total DSM Program Breakdown		System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Retail Peak Demand Allocation Factor (Miller Exhibit 5, Pg 4)	A21* C21
19	Power Manager (Residential)	268 706	$ 15 134 607	$ 20 179 477		
20	Power Share (Non Residential)	376 736	$ 21 196 675	$ 28 262 233		
21	Total DSM	645 443	$ 36 331 282	$ 48 441 710	74 7197120%	$ 27 146 630

(1) Total System DSM programs allocated to Residential and Non Residential based on contribution to retail system peak
Note Schedule may not foot due to rounding

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Duke Energy Carolinas, LLC
EE Vintage 4 (January 1, 2013 - December 31, 2013)
Docket Number E-7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program

Line	Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	A System Avoided Cost Revenue Requirement @ 50%	B System Avoided Cost @ 100%	C NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 5)	D NC Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
1	Appliance Recycling	668	4,854,769	$ 716,869	$ 1,433,738	72 9600473%	$ 523,028
2	Residential Energy Assessments	1,426	7,688,605	2,022,135	4,044,269	72 9600473%	1,475,350
3	Smart Saver® for Residential Customers	13,348	122,828,597	15,299,257	30,598 514	72 9600473%	11,162,345
4	Low Income Energy Efficiency and Weatherization Assistance	212	1,141,122	209,005	418,010	72 9600473%	152,490
5	Residential Neighborhood Program		-		-	72 9600473%	-
6	Energy Efficiency Education Program for Schools	1,011	5,450,099	998,224	1 996,448	72 9600473%	728,305
7	Home Energy Comparison Report (My Home Energy Report)	23,002	108,666,008	4,695,898	9,391,796	72 9600473%	3,426,129
8	Total for Residential Conservation Programs	39,667	250,629,200	$ 23,941,388	$ 47 882 775		$ 17,467,647

			System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 5)	A * C
9	**Total DSM Programs (at 75% Avoided Cost)**	707,025	$ 40,799,886	$ 54,399,848	34 0209980%	$ 13,880,528

	Non-Residential Programs	System kW Reduction Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @ 50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg 5)	NC Non-Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
10	Smart Saver® for Non-Residential Customers Lighting	13,096	76,690,274	$ 16,327,527	$ 32 655 054	72 9600473%	$ 11,912 571
11	Smart Saver® for Non Residential Customers Motors	1,570	8,065,178	1,965,520	3,931,040	72 9600473%	1,434,044
12	Smart Saver® for Non-Residential Customers - Other Prescriptive (Process Equipment)	32	133,175	44,887	89,774	72 9600473%	32,750
13	Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	209	1,132,425	335,181	670 363	72 9600473%	244,549
14	Smart Saver® for Non-Residential Customers - HVAC	1,912	5,081 170	2,277,985	4,555 969	72 9600473%	1,662,019
15	Smart Saver® for Non-Residential Customers - Custom Rebate	13,250	100,660,054	22,278,186	44,556 371	72 9600473%	16,254,175
16	Total for Non-Residential Conservation Programs	30,070	191,762,276	$ 43 229,285	$ 86,458,571		$ 31,540,107

			System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 5)	A* C
17	**Total DSM Programs (at 75% Avoided Cost)**	707,025	$ 40 799 886	$ 54 399 848	41 2108021%	$ 16,813 960

	Total DSM Program Breakdown			System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Retail Peak Demand Allocation Factor (Miller Exhibit 5, Pg 5)	A* C
18	Power Manager (Residential)	328,993	-	$ 18,993,470	$ 25,324 627		
19	Power Share (Non Residential)	378,032		$ 21,806,416	$ 29,075,221		
20	Total DSM	707,025	-	$ 40 799,886	$ 54,399 848	75 2318001%	$ 30,694,489

(1) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak
Note Schedule may not foot due to rounding

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Duke Energy Carolinas LLC
Vintage 2014 True up for January 1 2014 to December 31 2014
Docket Number E 7, Sub 1073
Load Impacts and Estimated Revenue Requirements, excluding Lost Revenue by Program

	System kW Reduction Summer Peak	System Energy Reduction (kWh)	A System NPV of Avoided Cost	B System Cost	C =(A B * 11 5%) Earned Utility Incentive	D= B+C System Cost Plus Incentive	E NC Retail kWh Sales Allocation Factor (Miller Exhibit 5 pg 6)	NC Residential Revenue Requirement D * E
Residential Programs								
EE Programs								
1 Appliance Recycling Program	709	5 100 458	$ 1 763 411	$ 1 515 867	$ 28 468	$ 1 544 335	72 9600473%	$ 1 126 747
2 Energy Efficiency Education	746	7 098 145	5 157 345	1 963 153	367 332	2 330 485	72 9600473%	1 700 323
3 Energy Efficient Appliances and Devices	18 424	167 039 197	50 838 876	14 738 129	4 151 586	18 889 715	72 9600473%	13 781 945
4 HVAC Energy Efficiency	2 509	4 526 177	7 061 500	4 786 807	261 590	5 048 397	72 9600473%	3 683 313
5 Income Qualified Energy Efficiency and Weatherization Assistance	792	3 374 813	1 675 463	1 917 192		1 917 192	72 9600473%	1 398 784
6 Multi Family Energy Efficiency	993	11 588 887	5 610 043	1 442 533	479 264	1 921 797	72 9600473%	1 402 144
7 Energy Assessments	1 312	10 599 335	12 827 575	3 605 737	1 060 511	4 666 248	72 9600473%	3 404 497
8 Subtotal	25 485	209 327 011	$ 84 934 213	$ 29 969 419	$ 6 348 750	$ 36 318 168		$ 26 497 753
9 My Home Energy Report (1)	38 579	142 881 676	12 166 183	8 285 066	446 328	8 731 394	72 9600473%	6 370 430
10 Total for Residential Energy Efficiency Programs	64 064	352 208 687	$ 97 100 396	$ 38 254 485	$ 6 795 079	$ 45 049 563		$ 32,868,183
							NC Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg 6)	D11* E11
11 **Total DSM Programs (2)**	785 740		113 683 464	$ 31 183 185	$ 9 487 532	$ 40 670 718	34 0209980%	$ 13 836,584
12 **Total Residential Revenue Requirement**								$ 46,704,767

	System kW Reduction Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	System Cost	Earned Utility Incentive	System Cost Plus Incentive	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5 pg 6)	NC Non Residential Revenue Requirement D * E
Non-Residential Programs								
EE Programs								
13 Non Residential Smart Saver Custom Energy Assessments	1 504	9 128 218	$ 6 858 644	$ 1 458 195	$ 621 052	$ 2 079 247	72 9600473%	$ 1 517 019
14 Non Residential Smart Saver Custom	9 392	78 157 513	49 908 871	8 136 712	4 803 798	12 940 510	72 9600473%	9 441 402
15 Energy Management Information Services				74 855	(8 608)	66 247	72 9600473%	48 334
16 Non Residential Smart Saver Energy Efficient Food Service Products	164	2 340 975	1 489 862	199 350	148 409	347 759	72 9600473%	253 725
17 Non Residential Smart Saver Energy Efficient HVAC Products	1 252	4 669 724	5 224 765	815 339	507 084	1 322 423	72 9600473%	964 840
18 Non Residential Smart Saver Energy Efficient Lighting Products	12 290	70 310 751	40 866 018	6 727 675	3 925 909	10 653 584	72 9600473%	7 772 860
19 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	787	6 487 067	3 629 866	584 874	350 174	935 048	72 9600473%	682 212
20 Non Residential Smart Saver Energy Efficient IT Products	15	124 237	35 580	25 730	1 133	26 863	72 9600473%	19 599
21 Non Residential Smart Saver Energy Efficient Process Equipment Products	159	661 883	660 330	89 809	65 610	155 419	72 9600473%	113 394
22 Small Business Energy Saver	920	3 807 575	2 662 785	1 026 607	188 160	1 214 767	72 9600473%	886 295
23 Smart Energy in Offices	3 765	18 089 083	1 972 535	1 156 497	93 844	1 250 341	72 9600473%	912 250
24 Total for Non Residential Energy Efficiency Programs	30 248	193 777 026	$ 113 309 256	$ 20 295 642	$ 10 696 565	$ 30 992 208		$ 22,611,930
							NC Non Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg 6)	D25*E25
25 **Total DSM Programs(2)**	785 740		$ 113 683 464	$ 31 183 185	$ 9 487 532	$ 40 670 718	41 2108021%	$ 16,760,729
26 **Total Non Residential Revenue Requirement**								$ 39,372,659
							NC Retail Peak Demand Allocation Factor (Miller Exhibit 5 pg 5)	D30* E30
Total DSM Program Breakdown								
27 Power Manager (Residential)	403 431		$ 58 390 087	$ 15 662 693	$ 4 913 650	$ 20 576 344		
28 Power Share CallOption (Non Residential)								
29 Power Share (Non Residential)	382 309		$ 55 293 377	$ 15 520 492	$ 4 573 882	$ 20 094 374		
30 Total DSM	785 740		$ 113 683 464	$ 31 183 185	$ 9 487 532	$ 40 670 718	75 2318001%	$ 30 597 313

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year including impacts for participants from prior vintage
(2) Total System DSM programs allocated to Residential and Non Residential based on contribution to retail system peak

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Duke Energy Carolinas, LLC
Vintage 2016 Estimate for January 1, 2016 to December 31 2016
Docket Number E 7, Sub 1073
Load Impacts and Estimated Revenue Requirements, excluding Lost Revenue by Program

	System kW Reduction Summer Peak	System Energy Reduction (kWh)	A System NPV of Avoided Cost	B System Cost	C = (A B) *11 5% Earned Utility Incentive	D= B+C System Cost Plus Incentive	E NC Retail kWh Sales Allocation Factor (Miller Exhibit 5 pg 6)	NC Residential Revenue Requirement D * E
Residential Programs								
EE Programs								
1 Appliance Recycling Program	791	5 655 112	$ 2 213 692	$ 1 754 540	$ 52 802	$ 1 807 342	72 9600473%	$ 1 318 638
2 Energy Efficiency Education	691	6 580 248	4 153 775	2 474 928	193 067	2 667 995	72 9600473%	1 946 571
3 Energy Efficient Appliances and Devices	4 061	36 348 269	16 316 959	5 528 158	1 240 711	6 768 869	72 9600473%	4 938 570
4 HVAC Energy Efficiency	1 527	3 365 177	4 810 440	5 107 181	(34 125)	5 073 056	72 9600473%	3 701 304
5 Income Qualified Energy Efficiency and Weatherization Assistance	1 004	5 010 021	3 272 617	10 601 322		10 601 322	72 9600473%	7 734 730
6 Multi Family Energy Efficiency	1 019	12 320 047	7 638 888	1 883 584	661 860	2 545 444	72 9600473%	1 857 157
7 Energy Assessments	934	7 546 592	7 985 154	3 010 149	572 126	3 582 275	72 9600473%	2 613 629
8 Subtotal	10 027	76 825 466	$ 46 391 519	$ 30 359 862	$ 2 686 442	$ 33 046 304		$ 24 110 599
9 My Home Energy Report (1)	55 319	204 879 939	17 362 165	12 206 008	592 958	12 798 966	72 9600473%	9 338 132
10 Total for Residential Energy Efficiency Programs	65 346	281 705 405	$ 63 753 684	$ 42 565 870	$ 3 279 400	$ 45 845 270		$ 33,448,730
							NC Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg 6)	D11* E11
11 Total DSM Programs (2)	928 994		104 996 908	$ 31 195 486	$ 8 487 164	$ 39 682 650	34 0209980%	$ 13,500,433
12 Total Residential Revenue Requirement								$ 46,949,164

	System kW Reduction Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	System Cost	Earned Utility Incentive	System Cost Plus Incentive	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5 pg 6)	NC Non Residential Revenue Requirement D * E
Non-Residential Programs								
EE Programs								
13 Non Residential Smart Saver Custom Energy Assessments	2 001	17 528 673	$ 8 974 637	$ 2 811 494	$ 708 761	$ 3 520 255	72 9600473%	$ 2 568 380
14 Non Residential Smart Saver Custom	8 954	78 437 169	42 388 414	9 835 671	3 743 565	13 579 236	72 9600473%	9 907 417
15 Non Residential Smart Saver Energy Efficient Food Service Products	120	1 656 886	769 076	243 073	60 490	303 563	72 9600473%	221 480
16 Non Residential Smart Saver Energy Efficient HVAC Products	2 912	7 233 762	10 449 359	1 923 416	980 483	2 903 899	72 9600473%	2 118 686
17 Non Residential Smart Saver Energy Efficient Lighting Products	13 942	83 856 747	49 163 384	7 813 306	4 755 259	12 568 565	72 9600473%	9 170 031
18 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	876	7 239 343	3 067 346	954 985	242 922	1 197 907	72 9600473%	873 993
19 Non Residential Smart Saver Energy Efficient IT Products	137	5 572 871	1 786 471	584 982	138 171	723 153	72 9600473%	527 613
20 Non Residential Smart Saver Energy Efficient Process Equipment Products	19	97 022	74 035	33 279	4 687	37 966	72 9600473%	27 700
21 Small Business Energy Saver	16 596	68 899 042	48 587 924	21 459 213	3 119 802	24 579 015	72 9600473%	17 932 861
22 Smart Energy in Offices	8 073	38 787 988	5 203 117	4 360 574	96 892	4 457 466	72 9600473%	3 252 170
23 Total for Non Residential Energy Efficiency Programs	53 630	309 309 503	$ 170 464 763	$ 50 019 993	$ 13 851 034	$ 63 871 027		$ 46,600,331
							NC Non Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg 6)	D24*E24
24 Total DSM Programs(2)	928 994		$ 104 996 908	$ 31 195 486	$ 8 487 164	$ 39 682 650	41 2108021%	$ 16,353,538
25 Total Non Residential Revenue Requirement								$ 62,953,869
							NC Retail Peak Demand Allocation Factor (Miller Exhibit 5 pg 6)	D29* E29
Total DSM Program Breakdown								
26 Power Manager (Residential)	504 194		$ 59 985 847	$ 12 881 566	$ 5 416 992	$ 18 298 558		
27 Power Share CallOption (Non Residential)								
28 Power Share (Non Residential)	424 800		$ 45,011 061	$ 18 313 920	$ 3 070 171	$ 21 384 091		
29 Total DSM	928 994		$ 104 996 908	$ 31 195 486	$ 8 487 164	$ 39 682 650	75 2318001%	$ 29 853 972

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year including impacts for participants from prior vintage
(2) Total System DSM programs allocated to Residential and Non Residential based on contribution to retail system peak

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Barnes Exhibit 2 page 1

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Duke Energy Carolinas LLC
For the Period June 1 2009 December 31 2015
Docket Number E 7 Sub 1073
North Carolina Net Lost Revenues Summary

Years 1 2

Vintage 1	2009	2010	2011	1 Mth 2012	2012	2013	2014	2015	2016	Total
Residential										
1 Residential Energy Assessments	$ 44 297	$ 669 511	$ 752 197	$ 66 386	$	$	$	$	$	$ 1 532 391
2 Smart Saver® for Residential Customers	92 993	5 073 454	15 613 579	1 378 657						22 158 682
3 Low Income Energy Efficiency and Weatherization Assistance	8 111	184 626	298 617	26 374						517 729
4 Energy Efficiency Education Program for Schools	980	52 034	109 867	9 700						172 582
5 Total Lost Revenues	146 381	5 979 625	16 774 260	1 481 117						24 381 383
6 Found Residential Revenues *	18 544	103 664	149 220	12 435		(0)				283 862
7 Net Lost Residential Revenues	**$ 127 836**	**$ 5 875 961**	**$ 16 625 041**	**$ 1 468 682**	**$**	**$ 0**	**$**	**$**	**$**	**$ 24 097 520**
Non Residential	2009	2010	2011	1 Mth 2012	2012	2013	2014	2015	2016	Total
8 Smart Saver® for Non Residential Customers Lighting	$ 267 995	$ 1 568 968	$ 2 140 019	$ 179 572	$	$	$	$	$	$ 4 156 555
9 Smart Saver® for Non Residential Customers Motors	1 508	34 581	47 849	4 389						88 327
10 Smart Saver® for Non Residential Customers Other Prescriptive (Process Equipment)		4	10	1						15
11 Smart Saver® for Non Residential Customers Energy Star Food Service Products	1 873	24 316	31 396	2 792						60 377
12 Smart Saver® for Non Residential Customers HVAC	4 441	61 038	114 704	10 212						190 394
13 Smart Saver® for Non Residential Customers Custom Rebate	170	129 797	423 378	38 673						592 018
14 Total Lost Revenues	275 987	1 818 705	2 757 356	235 639						5 087 686
15 Found Non Residential Revenues*	196 302	1 171 619	1 621 460	135 122		0				3 124 503
16 Net Lost Non Residential Revenues	**$ 79 685**	**$ 647 086**	**$ 1 135 896**	**$ 100 517**	**$**	**$ (0)**	**$**	**$**	**$**	**$ 1 963 183**

Years 1 3

Vintage 2	2009	2010	2011 (1/2 year)	1 Mth 2012	2012	2013 a)	2014	2015	2016	Total
Residential										
17 Residential Energy Assessments	$	$	$ 199 106	$	$ 416 418	$ 307 665	$	$	$	$ 923 189
18 Smart Saver® for Residential Customers			7 082 986		17 639 492	13 038 388				37 760 866
19 Low Income Energy Efficiency and Weatherization Assistance			8 604		25 327	18 723				52 654
20 Energy Efficiency Education Program for Schools			26 046		56 110	41 483				123 639
21 Total Lost Revenues			7 316 742		18 137 348	13 406 259				38 860 348
22 Found Residential Revenues *			46 409		91 169	68 377	(0)			205 955
23 Net Lost Residential Revenues	**$**	**$**	**$ 7 270 333**	**$**	**$ 18 046 179**	**$ 13 337 882**	**$ 0**	**$**	**$**	**$ 38 654 393**
Non Residential	2009	2010	2011 (1/2 year)	1 Mth 2012	2012	2013 a)	2014	2015	2016	Total
24 Smart Saver® for Non Residential Customers Lighting	$	$	$ 1 000 289	$	$ 2 128 947	$ 1 513 436	$	$	$	$ 4 642 672
25 Smart Saver® for Non Residential Customers Motors			42 267		92 407	68 717				203 390
26 Smart Saver® for Non Residential Customers Other Prescriptive (Process Equipment)			6 600		16 682	12 451				35 733
27 Smart Saver® for Non Residential Customers Energy Star Food Service Products			14 315		33 354	24 736				72 405
28 Smart Saver® for Non Residential Customers HVAC			53 349		151 187	112 123				316 659
29 Smart Saver® for Non Residential Customers Custom Rebate			595 732		1 414 842	1 051 484				3 062 058
30 Smart Energy Now			124 537		846 457	627 884				1 598 878
31 Total Lost Revenues			1 837 090		4 683 875	3 410 831				9 931 796
32 Found Non Residential Revenues*			403 371		1 374 530	1 030 897	(0)			2 808 798
33 Net Lost Residential Revenues	**$**	**$**	**$ 1 433 719**	**$**	**$ 3 309 345**	**$ 2 379 934**	**$ 0**	**$**	**$**	**$ 7 122 998**

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Year 1 2 and 3 Actuals and Year 4 estimated

Vintage 3	2009	2010	2011	1 Mth 2012	2012 (1/2 year)	2013[b]	2014	2015[c]	2016	Total
Residential										
34 Appliance Recycling	$	$	$	$	$ 10 266	$ 45 180	$ 46 293	$ 35 330	$	$ 137 069
35 Residential Energy Assessments					254 784	425 879	235 103	156 970		1 072 737
36 Smart Saver® for Residential Customers					6 953 370	8 775 483	3 841 455	2 603 636		22 173 943
37 Energy Efficiency Education Program for Schools					239 392	347 698	160 798	125 638		873 526
38 Home Energy Comparison Report					1 523 842					1 523 842
39 Residential Retrofit Pilot										
40 Total Lost Revenues					8 981 654	9 594 241	4 283 649	2 921 574		25 781 118
41 Found Residential Revenues *					32 870	39 068	7 442	2 511		81 891
42 Net Lost Residential Revenues	$	$	$	$	$ 8 948 784	$ 9 555 173	$ 4 276 707	$ 2 919 062	$	$ 25 699 227

Non Residential	2009	2010	2011	1 Mth 2012	2012 (1/2 year)	2013[b]	2014	2015[c]	2016	Total
43 Smart Saver® for Non Residential Customers Lighting	$	$	$	$	$ 978 762	$ 1 798 752	$ 1 157 277	$ 854 416	$	$ 4 789 207
44 Smart Saver® for Non Residential Customers Motors					64 385	149 063	113 632	94 215		421 295
45 Smart Saver® for Non Residential Customers Other Prescriptive (Process Equipment)										
46 Smart Saver® for Non Residential Customers Energy Star Food Service Products					14 096	33 415	32 665	20 026		100 202
47 Smart Saver® for Non Residential Customers HVAC					70 330	119 862	75 924	54 637		320 754
48 Smart Saver® for Non Residential Customers Custom Rebate					1 656 364	3 185 396	2 077 602	1 672 959		8 592 321
49 Smart Energy Now					478 449	329 918				808 367
50 Total Lost Revenues					3 262 386	5 616 407	3 457 100	2 696 252		15 032 146
51 Found Non Residential Revenues *					445 846	761 963	145 136	78 259		1 431 205
52 Net Lost Non Residential Revenues	$	$	$	$	$ 2 816 540	$ 4 854 443	$ 3 311 964	$ 2 617 993	$	$ 13 600 940

Year 1 and 2 actual Year 3 and 4 Estimated

Vintage 4	2009	2010	2011	1 Mth 2012	2012	2013 (1/2 year)	2014	2015	2016[d]	Total
Residential										
53 Appliance Recycling	$	$	$	$	$	$ 101 998	$ 240 815	$ 238 449	$ 136 270	$ 717 531
54 Residential Energy Assessments						178 126	358 256	354 699	175 570	1 066 651
55 Smart Saver® for Residential Customers						3 015 924	5 890 655	5 829 586	2 792 637	17 528 801
56 Low Income Energy Efficiency and Weatherization Assistance						12 238	44 504	44 084	31 908	132 734
57 Residential Neighborhood Program										
58 Energy Efficiency Education Program for Schools						136 637	246 083	243 620	105 938	732 278
59 Home Energy Comparison Report						7 042 473				7 042 473
60 Total Lost Revenues						10 487 396	6 780 312	6 710 438	3 242 322	27 220 467
61 Found Residential Revenues *						37 737	62 416	62 416	24 679	162 569
62 Net Lost Residential Revenues	$	$	$	$	$	$ 10 449 659	$ 6 717 896	$ 6 648 022	$ 3 217 642	$ 27 057 898

Non Residential	2009	2010	2011	1 Mth 2012	2012	2013 (1/2 year)	2014	2015	2016[d]	Total
63 Smart Saver® for Non Residential Customers Lighting	$	$	$	$	$	$ 1 382 839	$ 2 760 118	$ 2 769 348	$ 1 362 938	$ 8 275 243
64 Smart Saver® for Non Residential Customers Motors						82 592	171 814	173 141	89 216	516 762
65 Smart Saver® for Non Residential Customers Other Prescriptive (Process Equipment)						1 852	6 401	6 423	4 595	19 271
66 Smart Saver® for Non Residential Customers Energy Star Food Service Products						14 181	37 136	37 387	23 154	111 859
67 Smart Saver® for Non Residential Customers HVAC						91 920	210 322	210 626	117 888	630 757
68 Smart Saver® for Non Residential Customers Custom Rebate						1 322 386	2 957 110	2 977 938	1 630 601	8 888 034
69 Smart Energy Now										
70 Total Lost Revenues						2 895 770	6 142 901	6 174 862	3 228 392	18 441 925
71 Found Non Residential Revenues *						256 181	391 947	391 947	135 766	1 040 075
72 Net Lost Non Residential Revenues	$	$	$	$	$	$ 2 639 589	$ 5 750 954	$ 5 782 915	$ 3 092 625	$ 17 401 850

* Found Revenues see Barnes Exh bit 4

(a) V ntage 2 Year 3 Lost Revenues represent January September 24 2013 lost revenues

(b) Vintage 3 Year 2 Lost Revenues were based on Partic pants Jan Jun 12 for Lost revenues unt l Sept 24 2013 and partic pants July Dec mber 2012 for full year

(c) V ntage 3 Year 4 Lost Revenues represent only a 1/2 year for July December 2012 part cipants due to half year convent on used for Year 1 lost revenues

(d) Est mated Lost Revenues were est mated by allocat ng est mated system Lost Revenues per kWh sales See M ller Exh b t 5 Page 5 72 9600473%

Duke Energy Carolinas, LLC
For the Period January 1, 2015 - December 31, 2015
Docket Number E-7, Sub 1073
North Carolina Net Lost Revenue Estimates for Vintages 2014 - 2016

Line	Residential	Vintage 2014 2014	2015	2016[a]	Total
1	Energy Assessments	$ 310,215 00	$ 234,407	-	$ 544,622
2	My Home Energy Report	6,638 564		-	6,638,564
3	Energy Efficient Appliances and Devices	3,901 495	1,312,802	8,015,920	13,230,217
4	HVAC Energy Efficiency	117,007	249,615	16,765	383,387
5	Appliance Recycle Program	107,899	799,949		907,848
6	Income Qualified Energy Efficiency and Weatherization Assistance	85 575	522,101	158,572	766,248
7	Multi-Family Energy Efficiency	209,774	471,994	574,281	1,256,049
8	Energy Efficiency Education	130,780	286,135	322,985	739,900
9	Total Lost Revenues	11,501,309	3,877,003	9,088,523	24,466,835
10	Found Residential Revenues *				
11	Net Lost Residential Revenues	**$ 11,501,309**	**$ 3,877,003**	**$ 9,088,523**	**$ 24,466,835**

	Non-Residential	2014	2015	2016[a]	Total
12	Nonresidential Smart Saver Custom Energy Assessments	$ 166,013	$ 432,469	$ 226,174	$ 824,656
13	Non Residential Smart Saver Custom	1,190,583	1,935,145	1,973,711	5,099,439
14	Energy Management Information Systems		97,730		97,730
15	Non Residential Smart Saver Energy Efficient Food Service Products	43,798	31,378	75,852	151,028
16	Non Residential Smart Saver Energy Efficient HVAC Products	99,002	169,337	178,827	447,166
17	Non Residential Smart Saver Energy Efficient Lighting Products	1,309,866	1,981,220	2,443,628	5,734,714
18	Non Residential Smart Saver Energy Efficient Pumps and Drives Products	94 053	151,287	172,849	418,189
19	Non Residential Smart Saver Energy Efficient IT Products	419	82,353	3,133	85 905
20	Non Residential Smart Saver Energy Efficient Process Equipment Products	19 557	2,525	28,995	51,077
21	Smart Business Energy Saver	15 777		191,647	207,424
22	Smart Energy in Offices	116,474		799,334	915,808
23	Total Lost Revenues	3,055 541	4,883,444	6,094,150	14,033,135
24	Found Non-Residential Revenues *	1,512	(1,512)		(0)
25	Net Lost Non-Residential Revenues	**$ 3,054,030**	**$ 4,884,956**	**$ 6,094,150**	**$ 14,033,136**

Line	Residential	2014	Vintage 2015 2015	2016[a]	Total
26	Residential Energy Assessments		$ 117,203	$ 333,375	$ 450,578
27	My Home Energy Report		7,195,091		7,195,091
28	Energy Efficient Appliances and Devices		729,170	2,257,784	2,986,954
29	HVAC Energy Efficiency		129,033	221,848	350,881
30	Appliance Recycle Program		399,974	262,360	662,334
31	Income Qualified Energy Efficiency and Weatherization Assistance		242,767	232,432	475,199
32	Multi Family Energy Efficiency		249,457	485,043	734,500
33	Energy Efficiency Education		143,069	279,113	422,182
34	Total Lost Revenues		9,205,764	4,071,955	13,277,719
35	Found Residential Revenues *				-
36	Net Lost Residential Revenues		**$ 9,205,764**	**$ 4,071,955**	**$ 13,277,719**

	Non-Residential	2014	2015	2016[a]	Total
37	Nonresidential Smart Saver Custom Energy Assessments		$ 227,042	$ 290,657	$ 517,699
38	Non Residential Smart Saver Custom		1,015,964	1,946,849	2,962,813
39	Energy Management Information Services			-	-
40	Non Residential Smart Saver Energy Efficient Food Service Products		19,705	38,177	57,882
41	Non Residential Smart Saver Energy Efficient HVAC Products		89,689	192,709	282,398
42	Non Residential Smart Saver Energy Efficient Lighting Products		1,052,048	2,383,702	3,435,750
43	Non Residential Smart Saver Energy Efficient Pumps and Drives Products		79,426	184,145	263,571
44	Non Residential Smart Saver Energy Efficient IT Products		63,320	100,222	163,542
45	Non Residential Smart Saver Energy Efficient Process Equipment Products		1,317	3,070	4,387
46	Smart Business Energy Saver			1,986,875	1 986,875
47	Smart Energy in Offices			1,070,349	1,070,349
48	Total Lost Revenues		2,548,511	8,196,755	10,745,266
49	Found Non-Residential Revenues *		1,491	2,752	4,243
50	Net Lost Non Residential Revenues		**$ 2,547,020**	**$ 8,194,003**	**$ 10,741,023**

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Line	Residential	2014	Vintage 2016 2015	2016[a]	Total
51	Residential Energy Assessments			$ 180,515	$ 180,515
52	My Home Energy Report			10,000,374	10,000,374
53	Energy Efficient Appliances and Devices			885,431	885,431
54	HVAC Energy Efficiency			79,543	79,543
55	Appliance Recycle Program			138,883	138,883
56	Income Qualified Energy Efficiency and Weatherization Assistance			117,454	117,454
57	Multi-Family Energy Efficiency			318,146	318,146
58	Energy Efficiency Education			153,421	153,421
59	Total Lost Revenues			11,873,767	11,873,767
60	Found Residential Revenues *				-
61	Net Lost Residential Revenues		$ -	$ 11,873,767	$ 11,873,767

	Non-Residential	2014	2015	2016[a]	Total
62	Nonresidential Smart Saver Custom Energy Assessments			$ 213,540	$ 213 540
63	Non Residential Smart Saver Custom			1,008,577	1,008,577
64	Energy Management Information Services			-	-
65	Non Residential Smart Saver Energy Efficient Food Service Products			18,783	18,783
66	Non Residential Smart Saver Energy Efficient HVAC Products			105,952	105,952
67	Non Residential Smart Saver Energy Efficient Lighting Products			1,249,795	1,249,795
68	Non Residential Smart Saver Energy Efficient Pumps and Drives Products			70,833	70,833
69	Non Residential Smart Saver Energy Efficient IT Products			74,932	74,932
70	Non Residential Smart Saver Energy Efficient Process Equipment Products			1,497	1,497
71	Small Business Energy Saver			1,210,438	1 210,438
72	Smart Energy in Offices			792,359	792,359
73	Total Lost Revenues			4,746,706	4,746,706
74	Found Non-Residential Revenues *			1,391	1,391
75	Net Lost Non Residential Revenues			$ 4,745,315	$ 4,745,315

(a) Estimated Lost Revenues were estimated by allocating estimated system Lost Revenues per kWh sales See Miller Exhibit 5 Page 6 72 9600473%

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Duke Energy Carolinas, LLC
For the Period June 1, 2009 - December 31, 2013
Docket Number E-7 Sub 1073
Actual Program Costs for SAW programs

Line	SAW PROGRAMS		Carolinas System Costs - 6/1/2009 - 12/31/2009	Carolinas System Costs - 12 Months Ended 12/31/2010	Carolinas System Costs - 12 Months Ended 12/31/2011	Carolinas System Costs - 12 Months Ended 12/31/2012	Carolinas System - 12 Months Ended 12/31/2013
1	Residential Energy Assessments		$ 2,003,480	$ 2,632,637	$ 2,668,577	$ 2,807,908	$ 2,709,166
2	Residential Home Retrofit		-	-	118,811	157,393	5,792
3	Residential Neighborhood Program		-	-	-	110,001	600,407
4	Home Energy Comparison Report		-		711,131	3,012,860	7,441,231
5	Residential Smart Saver		2,639,505	25,972,993	23,006,146	19,502,040	14,341,695
6	Appliance Recycle Program			-	-	302,588	1,808,141
7	Low Income Services		106,530	396,691	1,296	20,167	9,812
8	Energy Efficiency Education		2,137,748	2,273,809	791,598	2,893,919	2,030,442
9	Nonresidential Energy Assessments		161,826	1,110,853	2,519,394	1,467,001	750,949
10	Nonresidential Smart Energy Now		-	-	2,069,672	1,062,135	1,477,300 (1)
11	Nonresidential Smart Saver		1,831,197	6,988,330	12,145,531	18,984,876	17,610,411
12	Power Manager		2,322,903	9,422,232	14,392,260	12,541,114	12,715,817
13	Power Share		759,147	7,964,184	13,774,440	15,379,288	15,005,089
14	**Total Energy Efficiency & Demand Side Program Costs**	Sum (Lines 1-13)	**$ 11,962,336**	**$ 56,761,729**	**$ 72,198,856**	**$ 78,241,290**	**$ 76,506,252**
15	NC Allocation Factor for EE programs	Miller Exhibit 5	73 0077318%	72 7072722%	72 6972151%	72 7194575%	72 5649061%
16	NC Allocation Factor for DSM programs-Residential	Miller Exhibit 5	33 9010659%	34 4404513%	32 2293181%	34 8388691%	32 1711350%
17	NC Allocation Factor for DSM programs-Non-Residential	Miller Exhibit 5	39 9179344%	40 3489126%	42 2350050%	39 8808428%	42 3392872%

			NC Allocated Costs - 6/1/2009 - 12/31/2009	NC Allocated Costs - 12 Months Ended 12/31/2010	NC Allocated Costs - 12 Months Ended 12/31/2011	NC Allocated Costs - 12 Months Ended 12/31/2012	NC Allocated - 12 Months Ended 12/31/2013
18	Residential Energy Assessments	Line 1*Line 15	$ 1,462,695	$ 1,914,119	$ 1,939,981	$ 2,041,895	$ 1,965,904
19	Residential Home Retrofit	Line 2*Line 15		-	86,372	114,455	4,203
20	Residential Neighborhood Program	Line 3*Line 15	-	-	-	79,992	435,685
21	Home Energy Comparison Report	Line 4*Line 15	-		516,972	2,190,935	5,399,722
22	Residential Smart Saver	Line 5*Line 15	1,927,043	18,884,255	16,724,827	14,181,778	10,407,038
23	Appliance Recycle Program	Line 6*Line 15	-	-	-	220,040	1,312,076
24	Low Income Services	Line 7*Line 15	77,775	288,423	942	14,665	7,120
25	Energy Efficiency Education	Line 8*Line 15	1,560,721	1,653,224	575,470	2,104,442	1,473,388
26	Nonresidential Energy Assessments	Line 9*Line 15	118,145	807,671	1,831,529	1,066,795	544,925
27	Nonresidential Smart Energy Now	Line 10*Line 15	-	-	1,504,594	772,379	1,072,002
28	Nonresidential Smart Saver	Line 11 * Line 15	1,336,915	5,081,024	8,829,463	13,805,699	12,778,978
29	Power Manager	(Line 12+ Line 13)*Line 16	1,044,848	5,987,960	9,077,935	9,727,152	8,918,130
30	Power Share	(Line 12+ Line 13)*Line 17	1,230,291	7,015,230	11,896,207	11,134,892	11,736,834
31	**Total Energy Efficiency & Demand Side Program Costs**	Sum (Lines 18-30)	**$ 8,758,434**	**$ 41,631,906**	**$ 52,984,294**	**$ 57,455,121**	**$ 56,056,005**

(1) Represents January and February 2014 program costs related to the Smart Energy in Offices pilot program

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Duke Energy Carolinas, LLC
For the Period January 1, 2014 - December 31, 2014
Docket Number E-7 Sub 1073
Actual Program Costs for Vintage Years 2014

			Carolinas System - 12 Months Ended 12/31/2014
1	Residential Energy Assessments		$ 3,605,737
2	My Home Energy Report		8,285,066
3	Energy Efficient Appliances and Devices		14,738,129
4	HVAC Energy Efficiency		4,786,807
5	Appliance Recycle Program		1,515,867
6	Income Qualified Energy Efficiency and Weatherization Assistance		1,917,192
7	Multi family Energy Efficiency		1,442,533
8	Energy Efficiency Education		1,963,153
9	Nonresidential Smart Saver Custom Energy Assessments		1,458,195
10	Energy Management Information Systems		74,855
11	Non-Residential Smart Saver Custom		8,136,712
12	Non-Residential Energy Efficient Food Service Products		199,350
13	Non-Residential Smart Saver Energy Efficient HVAC Products		815,339
14	Non-Residential Smart Saver Energy Efficient Lighting Products		6,727,675
15	Nonresidential Energy Efficient Pumps and Drives Products		584,874
16	Nonresidential Energy Efficient ITEE		25,730
17	Nonresidential Energy Efficient Process Equipment Products		89,809
18	Smart Energy In Offices		1,156,497
19	Small Business Energy Saver		1,026,607
20	Power Manager		15,662,693
21	Power Share		15,520,492
22	**Total Energy Efficiency & Demand Side Program Costs**	sum(Lines 1-20)	**$ 89,733,313**

23	NC Allocation Factor for EE programs	Miller Exhibit 5 Pg 6, Line 4	72 9600473%
24	NC Allocation Factor for DSM programs-Residential	Miller Exhibit 5 Pg 6, Line 9	34 0209980%
25	NC Allocation Factor for DSM programs-Non-Residential	Miller Exhibit 5 Pg 6, Line 10	41 2108021%

			NC Allocated - 12 Months Ended 12/31/2014
26	Residential Energy Assessments	Line 1 * Line 22	$ 2,630,748
27	My Home Energy Report	Line 2 * Line 22	6,044,788
28	Energy Efficient Appliances and Devices	Line 3 * Line 22	10,752,946
29	HVAC Energy Efficiency	Line 4 * Line 22	3,492,457
30	Appliance Recycle Program	Line 5 * Line 22	1,105,977
31	Income Qualified Energy Efficiency and Weatherization Assistance	Line 6 * Line 22	1,398,784
32	Multi family Energy Efficiency	Line 7 * Line 22	1,052,473
33	Energy Efficiency Education	Line 8 * Line 22	1,432,317
34	Nonresidential Smart Saver Custom Energy Assessments	Line 9 * Line 22	1,063,900
35	Energy Management Information Systems	Line 10 * Line 22	54,614
36	Non-Residential Smart Saver Custom	Line 11 * Line 22	5,936,549
37	Non-Residential Energy Efficient Food Service Products	Line 12 * Line 22	145,446
38	Non-Residential Smart Saver Energy Efficient HVAC Products	Line 13 * Line 22	594,872
39	Non-Residential Smart Saver Energy Efficient Lighting Products	Line 14 * Line 22	4,908,515
40	Nonresidential Energy Efficient Pumps and Drives Products	Line 15 * Line 22	426,724
41	Nonresidential Energy Efficient ITEE	Line 16 * Line 22	18,773
42	Nonresidential Energy Efficient Process Equipment Products	Line 17 * Line 22	65,525
43	Smart Energy In Offices	Line 18 * Line 22	843,781
44	Small Business Energy Saver	Line 19 * Line 22	749,013
45	Power Manager	(Line 19 + Line 20)* Line 23	10,608,831
46	Power Share	(Line 19 + Line 20) * Line 24	12,850,841
46	**Total Energy Efficiency & Demand Side Program Costs**	Sum (Lines 25-44)	**$ 66,177,873**

I/A

Duke Energy Carolinas, LLC
June 2009 - December 2014 Actuals
January 2015 - December 2016 Estimates
Docket Number E-7, Sub 1073
North Carolina Found Revenues

	Actual/Reported KWH						Estimated KWH		
	2009	2010	2011	2012	2013	2014	2015	2016	Decision Tree Node
Boilers (unmetered)	575,990		-		-	-			Box 6 - include
Boilers (metered)	-	-		-			-		Box 6 - include
Economic Development	93,990,900	104,307,244	117,082,542	416,539,426	136,948,900	166,234,550	-		Box 5 - exclude
Plug in Electric Charging Station Pilot	-		8,246	218,311	238,696	238,696	-		Box 3 - exclude
Food Service	693,553	949,022	723,338	1,204,245	712,711	-		-	Box 6 include
Process Heat	31,014	1,783,740	2,973,046	1,002,303	162,109		-	-	Box 6 include
Lighting				-		-		-	
Residential	102,492	169,991	162,984	76,420	93,396	105,354	105,354	105,354	Box 6 - include
Non Residential (Regulated)	112,286	175,553	129,669	77,433	60,528	95,391	143,087	143,087	Box 6 - include
MV to LED Credit Residential (Regulated)	-		-			(156,381)	(205,208)	(205,208)	Box 6 - include
MV to LED Credit - Non-Residential (Regulated)			-	-		(104,331)	(136,907)	(136,907)	Box 6 include
Non Residential (Non Regulated)	3,630	3,630	2,146	0	0	0	-		Box 6 - include
Total KWH	95,509,866	107,389,180	121,081,971	419,118,139	138,216,340	166,413,279	(93,675)	(93,675)	
Total KWH Included	1,518,966	3,081,936	3,991,183	2,360,401	1,028,744	(59,967)	(93,675)	(93,675)	
Total KWH Included (net of Free Riders 15%)	$ 1,291,121	$ 2,619,646	$ 3,392,506	$ 2,006,341	$ 874,432	$ (50,972)	$ (79,624)	$ (79,624)	
Annualized Found Revenue Non Residential	$ 509,839	$ 1,111,621	$ 1,374,530	$ 967,572	$ 391,947	$ (3,615)	$ 2,752	$ 2,567	
Annualized Found Revenue Residential	$ 55,308	$ 93,912	$ 91,169	$ 49,611	$ 62,416	$ (34,952)	$ (70,908)	$ (68,792)	

	2009	2010	2011	2012	2013	2014	2015	2016
Vintage 1 -2009 Non Res	$ 196,302	$ 509,839	$ 509,839	313,537				
Vintage 1 -2010 Non Res		$ 661,779	$ 1,111,621	$ 1,111,621	449,841			
Vintage 2011 Non Res			$ 403,371	$ 1,374,530	$ 1,374,530	971,160		
Vintage 2012 Non Res				$ 445,846	$ 967,572	967,572	521,726	
Vintage 2013 - Non Res					$ 256,181	391,947	391,947	135,766
Vintage 2014 - Non Res						1,512	(3,615)	(3,615)
Vintage 2015 - Non Res							1,491	2,752
Vintage 2016 - Non Res								1,391
Vintage 2017 - Non Res								
Net Negative Found Revenues to Zero*								
Rate Case Adjustment - Non Res **				(1,290,036)	(999,083)	$ (1,793,596)	$ (443,467)	$ -
Subtotal - Non Res	$ 196,302	1,171,619	2,024,831	1,955,498	2,049,042	538,594	468,081	136,294
Vintage 1 2009 Residential	$ 18,544	$ 55,308	$ 55,308	36,764				
Vintage 1 -2010 - Residential		$ 48,357	$ 93,912	$ 93,912	45,556			
Vintage 2011 - Res			$ 46,409	$ 91,169	$ 91,169	44,760		
Vintage 2012 Res				$ 32,870	$ 49,611	49,611	16,741	
Vintage 2013 Res					$ 37,737	62,416	62,416	24,679
Vintage 2014 Res						(12,947)	(34,952)	(34,952)
Vintage 2015 - Res							(38,408)	(70,908)
Vintage 2016 Res								(37,262)
Vintage 2017 Res								
Net Negative Found Revenues to Zero*								
Rate Case Adjustment - Residential **				(118,241)	(78,890)	$ (86,929)	$ (14,230)	$
Subtotal - Residential	$ 18,544	$ 103,664	$ 195,629	$ 136,474	$ 145,182	$ 56,911	$ (8,433)	$ (118,442)
Total Found Revenues	$ 214,846	$ 1,275,283	$ 2,220,460	$ 2,091,972	$ 2,194,224	$ 595,505	$ 459,649	$ 17,851

* Eliminates the inclusion of total negative found revenues at the Residential and Non-Residential Level
** Removes amounts to be recovered in base rates

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Duke Energy Carolinas, LLC
System Event Based Demand Response January 1, 2014 - December 31, 2014
Docket Number E-7, Sub 1073

Date	State	Program Name	Event Trigger	Weather Conditions	Numbers of Customers Notified / Enrolled	MW Reduction
1/7/2014	NC and SC	PowerShare Generator	Emergency	H 25 L 5	9	12.60
1/7/2014	NC and SC	IS	Emergency	H 25 L 5	61	145.51
1/7/2014	NC and SC	SG	Emergency	H 25 L 5	80	30.16
1/7/2014	NC and SC	PowerShare Mandatory	Emergency	H 25 L 5	184	284.50
1/8/2014	NC and SC	PowerShare Generator	Emergency	H 44 L 14	9	14.46
1/8/2014	NC and SC	IS	Emergency	H 44 L 14	61	151.42
1/8/2014	NC and SC	SG	Emergency	H 44 L 14	80	36.18
1/8/2014	NC and SC	PowerShare Mandatory	Emergency	H 44 L 14	184	358.72
1/23/2014	NC and SC	PowerShare Voluntary	Economic	H 40 L 18	134	3.32
6/5/2014	NC and SC	Power Manager	SOC Test Event	H 90 L 70	156,650	
6/10/2014	NC and SC	Power Manager	SOC Test Event	H 90 L 67	183,683	
6/18/2014	NC and SC	Power Manager	Economic	H 93 L 70	183,683	M&V impacts not available at the time of this filing.
9/2/2014	NC and SC	Power Manager	Economic	H 94 L 70	183,117	
9/11/2014	NC and SC	Power Manager	Economic	H 89 L 66	183,117	
9/16/2014	NC and SC	Power Manager	Economic	H 85 L 66	183,117	

Notes:
- 'Weather Conditions' is the averaged daily high/low temperature from 3 weather stations (Charlotte, Greensboro, Greenville/Spartanburg).
- 'Numbers of Customers Notified/Enrolled' is the number of participants notified to partic pate in the event. For Power Manager events, this is the monthly active switch count.
- 'MW Reduction' values are based on the average MW reduction across all hours of the event.
- A loss adjustment of 1.08 has been included in the 'MW Reduction' values to reflect "at the plant" values.

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Appliance Recycling Program

A. Description

The Appliance Recycling Program ("Program") promotes the removal and responsible disposal of operating refrigerators and freezers from Duke Energy Carolinas, LLC's (the "Company's") residential customers. The refrigerator or freezer must have a capacity of at least 10 cubic feet but not more than 30 cubic feet. The Program recycles approximately 95% of the material from the harvested appliances.

Audience

Eligible Program participants include the Company's residential customers who own operating refrigerators and freezers used in individually metered residences.

B &C. Impacts, Participants and Expenses

Appliance Recycling[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	**$10.1**	**$1.8**	**17%**
Program Cost	**$2.3**	**$1.5**	**65%**
MW	**3.9**	**0.7**	**18%**
MWH	**16,819.4**	**5,100.5**	**30%**
Units	**16,688**	**9,753**	**58%**

1) Values are reflected at the system level.
2) Numbers rounded.

D. Qualitative Analysis

Highlights

Incentive Increase

In an effort to increase Program participation, the Company increased the customer incentive from $30 to $50 per recycled appliance. The incentive increase was implemented in compliance with the Flexibility Guidelines.

Marketing Efforts

A comprehensive marketing plan was developed and launched with print, broadcast, digital, media events including a "Pop Up Museum". The Program management team scheduled media coverage during a scheduled pick-up at a customer's home. This was used as an opportunity to market the Program while the pick-up occurred. Additional marketing activities were conducted that included educating elementary schools students studying recycling and other environmental efforts such as a Filet-A-Fridge demonstration which deconstructs a refrigerator.

ARP Supplier Consolidation

In 2014, the Company consolidated our two legacy ARP Suppliers, Appliance Recycle Centers of America (ARCA) and JACO Environmental, naming JACO as the Company's single ARP source in June 2014. The transition was well planned and executed with minimal impact to our customers.

E. Marketing Strategy

The marketing campaign incorporated multiple approaches to reach customers and promote the Program. The marketing outreach includes mass media/advertising, social media, bill inserts and the Program website.

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Appliance Recycling Program

F. Evaluation, Measurement and Verification

The impact and process evaluation results for Appliance Recycling program years 2012 and 2013 is is included the Rider 7 filing as Ham Exhibit C. The process evaluation included interviews with program management, customer participants, and used appliance dealers.

The impact evaluation complies with the Department of Energy's Uniform Methods Protocols for appliance recycling programs and included a metering study of 24 refrigerators and 8 freezers to capture energy use of recycled units under actual in-home conditions. The per-unit impacts reported in the evaluation are shown in the following chart:

	Gross Savings		Net Savings	
	kWh	kW	kWh	kW
Overall	930	0.1275	485	0.0664
Refrigerators	952	0.1359	512	0.0731
Freezers	869	0.1035	410	0.0489

Process and impact evaluation work is underway for program years 2014 and 2015 with a report planned for completion in the fourth quarter of 2015. This report is planned to be combined for the Program in Duke Energy Carolinas and program year 2014 for Duke Energy Progress. The allocation of combined EM&V costs is proposed to be based on the projected number of participants in the Appliance Recycling program for each company.

The process evaluation will include interviews with program management and customer interivews. The impact evaluation will comply with the Department of Energy's Uniform Methods Protocols for appliance recycling programs and is planned to utilize data collected recently in the Carolinas and similar regions.

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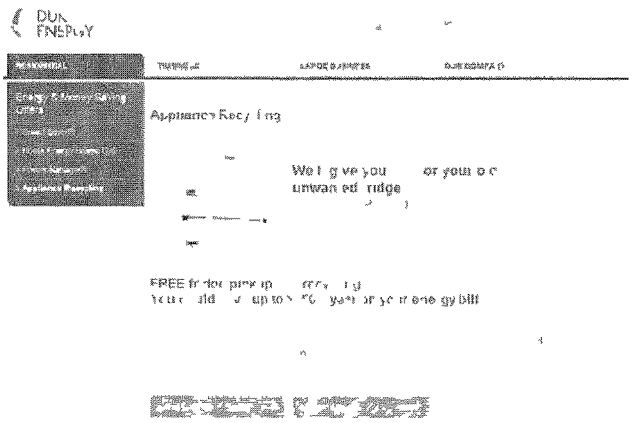
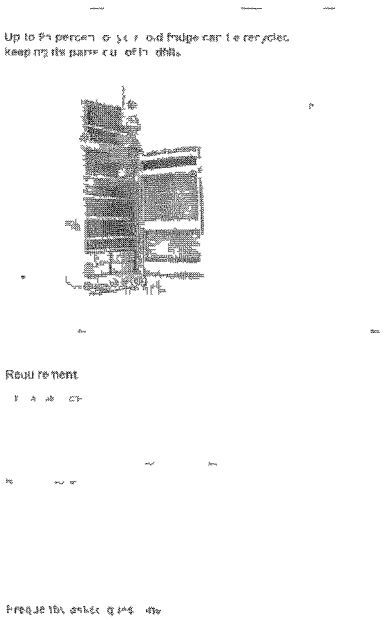
Appliance Recycling Program

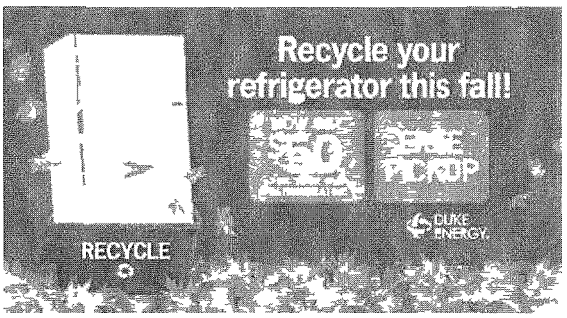
G. Appendix

Web Pages





Bill Insert



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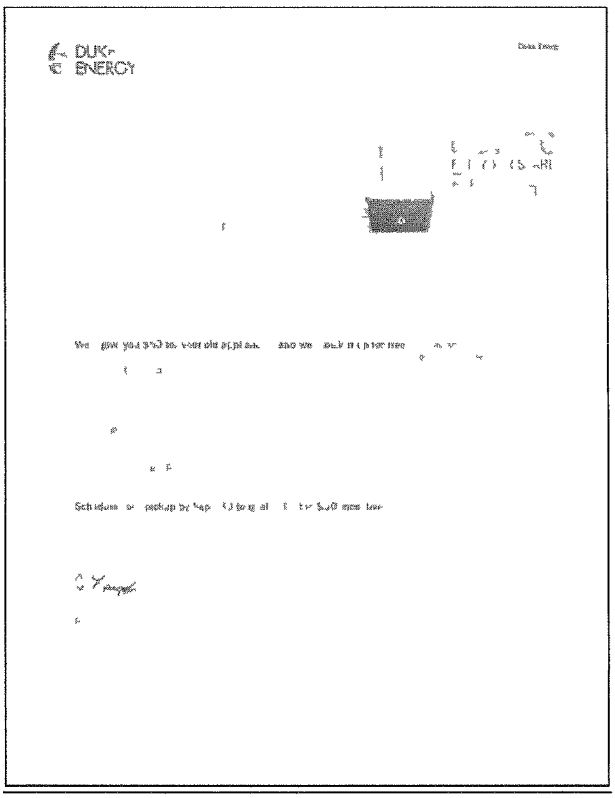
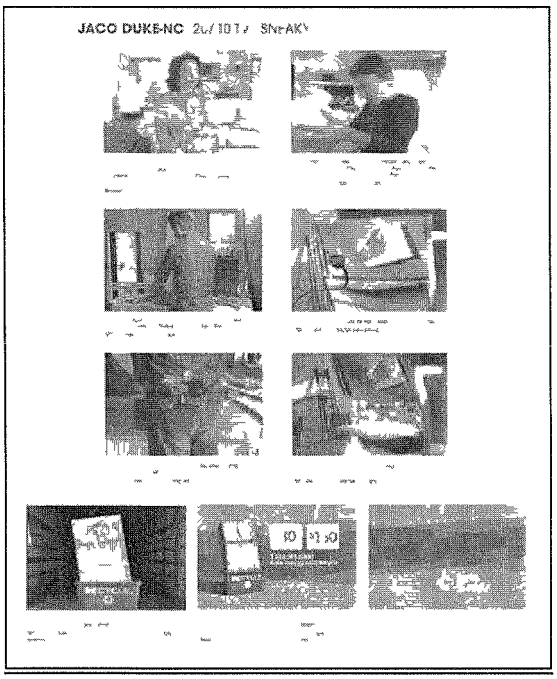
Appliance Recycling Program

Direct Mail



Television



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Energy Efficiency Education Program

A. Description

The Energy Efficiency Education Program ("Program") is an energy efficiency program offered in the Duke Energy Carolinas (the "Company" or "DEC") service territory. The Program is available to students in grades K-12 enrolled in public and private schools who reside in households served by the Company. The current curriculum administered by The National Theatre for Children ("NTC") targets K-8 grade students.

The Program provides principals and teachers with an innovative curriculum that educates students about energy, resources, how energy and resources are related, ways energy is wasted and how to be more energy efficient. The centerpiece of the curriculum is a live theatrical production focused on concepts such as energy, renewable fuels and energy efficiency performed by two professional actors. Teachers receive supportive educational material for classroom and student take home assignments. The workbooks, assignments and activities meet state curriculum requirements.

School principals are the main point of contact responsible for scheduling their school's performance at their convenience. Once the principal confirms the performance date and time, two weeks prior to the performance, all materials are delivered to the principal's attention for classroom and student distribution. Materials include school posters, teacher guides, and classroom and family activity books.

Students are encouraged to complete a home energy survey with their family (included in their classroom and family activity book) to receive an Energy Efficiency Starter Kit. The kit contains specific energy efficiency measures to reduce home energy consumption. The kit is available at no cost to all student households at participating schools, including customers and non-customers.

Audience

Eligible participants include the Company's residential customers who reside in households served by Duke Energy Carolinas with school-age children enrolled in public and private schools.

B &C. Impacts, Participants and Expenses

Energy Efficiency Education[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$2.9	$5.2	176%
Program Cost	$2.1	$2.0	95%
MW	0.5	0.7	144%
MWH	5,226.0	7,098.1	136%
Units	24,000	28,316	118%

1) Values are reflected at the system level.
2) Numbers rounded.

D. Qualitative Analysis

Highlights

The Company is supporting arts and theatre in schools while providing an important message about energy efficiency through an innovative delivery channel for children. Enhancing the message with a live theatrical production truly captivates the children's attention and reinforces the curriculum material provided by teachers.

During the 2014-2015 school year, National Theatre for Children introduced two new productions to students. Treasure Trove of Conservation Cove, a 25 minute production, is designed for elementary school aged students and teaches them how to use resources wisely through a fun pirate treasure hunt featuring a cast of colorful characters. The Resource Raider, a 40-minute program, is designed for middle school aged students. This production combines sketch comedy with improvisation and audience

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participation to teach students about natural resources and energy efficiency while complimenting student studies in science and energy.

Approximately 1,000 school visits are expected in the DEC service territory during the 2014-2015 school year. During the 2014 fall school semester NTC conducted over 700 performances reaching approximately 266,000 students in the DEC service territory.

Once the completed energy efficiency survey is processed for an eligible customer, the energy efficiency starter kit is shipped and received within two to four weeks. To ensure customer satisfaction with the energy efficiency starter kit and the installation of items, an email reminder is sent monthly after successful kit delivery to encourage families to return their Business Reply Card (BRC). Qualified households that have submitted their energy efficiency survey and returned the BRC are automatically entered into the family contest drawing, sponsored by the NTC, for a $2,500 cash prize. A fall and spring drawing will be held during the 2014-2015 academic year for all participating households in the Duke Energy Carolinas territory.

School contests encourage sign ups and for the fourth straight year, DEC and NTC awarded checks to schools whose students, along with their families completed home energy surveys and received energy efficiency kits as part of the Program. In the fall and spring of each year, a drawing is held selecting one school and one family contest winner. Brightwood Elementary in Greensboro, NC won $10,000 in the fall 2014 school year. Principals, teachers and students may view their school's progress and compare the number of sign ups to other schools via the website, www.trackmysignups.org.

Updates

The Company has worked closely with NTC to enhance the Program by:

- Introducing two new productions to refresh and refocus the materials and scripts to keep participating schools engaged.
- Promoting the program through social media to encourage awareness, recognition and participation.
- Partnering with Duke Energy Account and District Managers to leverage existing relationships in the community to develop positive media stories while encouraging kit sign ups.

E. Marketing Strategy

The National Theatre for Children is responsible for all marketing campaigns and outreach. NTC utilizes direct mail and email sent directly to principals to market the Program.

F. Evaluation, Measurement and Verification

An impact and process evaluation report for the Energy Efficiency Education Program is scheduled for completion in the fourth quarter of 2015. The process evaluation of the Program will include program manager, implementer and teacher interviews to assess program operations, and student family surveys to assess program awareness, satisfaction, and compliance with installations and recommendations.

The goal of the impact evaluation is to assess the net energy savings attributable to the Program, as well as the persistence of the energy savings over time. The independent, third-party EM&V consultant will determine the detailed analysis methodologies, sample design and data collection activities. The impact evaluation for this Program is expected to consist of engineering estimates and a billing analysis.

Where applicable, a statistically representative sample of participants will be selected for the analysis. The Company intends to follow industry-accepted methodologies for all measurement and verification activities, consistent with International Performance Measurement Verification Protocol (IPMVP) Options A, C or D depending on the measure.

There is currently no planned difference in the EM&V plans for the Programs in DEC and DEP. However, due to the pre-established schedule of DEC evaluation and the launch schedule for the Program in DEP,

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the evaluations will initially be performed separately at different times. Subsequent evaluations are expected to be combined for the Programs in DEC and DEP. At that time, the allocation of combined EM&V costs is proposed to be based on the projected number of participants of the Programs for each company.

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Energy Assessments

A. Description

The Home Energy House Call Program ("Program") is offered under the Energy Assessment Program. Duke Energy Carolinas, LLC (the "Company") partners with several key vendors to administer the Program.

The Program provides a free in-home assessment performed by a Building Performance Institute ("BPI") certified energy specialist designed to help customers reduce energy usage and save money. The BPI certified energy specialist completes a 60 to 90 minute walk through assessment of a customer's home and analyzes energy usage to identify energy savings opportunities. The energy specialist discusses behavioral and equipment modifications that can save energy and money with the customer. The customer also receives a customized report that identifies actions the customer can take to increase their home's efficiency. Examples of recommendations might include the following:

- Turning off vampire load equipment when not in use.
- Turning off lights when not in the room.
- Using CFLs in light fixtures.
- Using a programmable thermostat to better manage heating and cooling usage.
- Replacing older equipment.
- Adding insulation and sealing the home.

In addition to a customized report, customers receive an energy efficiency starter kit with a variety of measures that can be directly installed by the energy specialist. The kit includes measures such as energy efficiency lighting, low flow shower head, low flow faucet aerators, outlet/switch gaskets, weather stripping and an energy saving tips booklet.

Audience

Eligible Program participants are Company's residential customers that own a single-family residence with at least four months of billing history and have central air, electric heat or an electric water heater.

B &C. Impacts, Participants and Expenses

Energy Assessments[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$2.2	$12.8	574%
Program Cost	$1.9	$3.6	194%
MW	0.4	1.3	332%
MWH	3,396.3	10,599.3	312%
Units	5,000	10,753	215%

1) Values are reflected at the system level.
2) Numbers rounded.

D. Qualitative Analysis

Highlights

The Program's marketing campaign focuses on an energy expert which reinforces the Company's expert guide positioning. Based on previous online survey results, customers find the new campaign informative, relevant, attention-getting, and memorable. The Company continues with a multichannel marketing approach which includes the Program's website pages and banners, online services banner, email, bill inserts, mass media including television and radio and direct mail. Examples of online and direct mail promotion are included in the Appendix. The initial kick-off yielded positive response rates and enrollments in spite of vacation and holidays. We will continue to explore other channels for our

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marketing campaigns to reach our target audience and maximize both program performance as well as customer experience.

Communication channels amongst vendors, partners and the team at Duke Energy continue to be optimized to maximize collaboration regarding marketing initiatives, future scheduling, availability, routing, targeting, backlog, etc. to drive efficient operations as well as customer satisfaction. Additionally, the Program continues to utilize additional energy specialists to handle any over flow of appointments and ensure all customers are served in a timely fashion.

Potential Changes

Some program enhancements to increase the effectiveness of the Program being considered include:

- Evaluating energy efficient lighting offers such as LEDs, specialty bulbs and other measures for the energy efficiency kit and or moving away from a prepackaged kit.
- Enhancing the online enrollment experience to enable the customer to schedule, cancel, and/or modify their appointment time.
- Propensity modeling to allow for more targeting.
- Product training program to encourage cross sell or cross promotion of other relevant offers.
- Refreshing marketing materials.

E. Marketing Strategy

Program participation continues to be driven through a multichannel approach including targeted mailings to pre-qualified residential customers, bill inserts, online promotions and online video. For those who elect to receive offers electronically, email marketing will be used to supplement direct mail. The Company has explored additional channels to drive awareness including but not limited to community outreach and event marketing. The marketing material continues to drive engagement and interest in the Program based on online survey results from a previous ad effectiveness study. Aligning with expert guide, messaging has continued to be simple and focused on key benefits (free energy expert advice, free in-home assessment and free starter kit) and three easy steps: you call, we come over, and you save.

Home Energy House Call program information and an online assessment request form are available at www.duke-energy.com.

F. Evaluation, Measurement and Verification

There is currently no evaluation activity for this Program. The next process and impact evaluation report is scheduled for completion in third quarter of 2017 with activities beginning in 2016.

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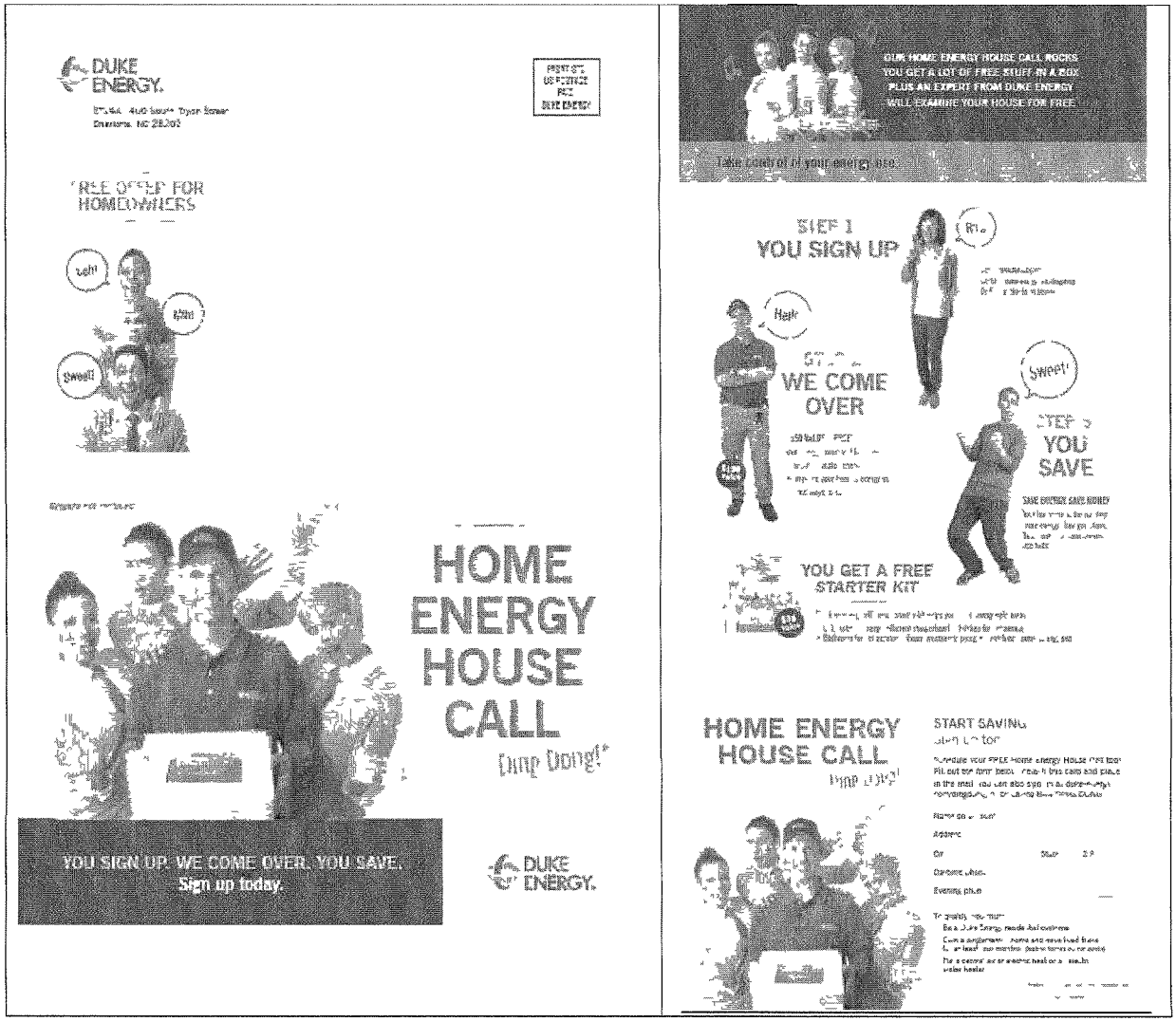
Energy Assessments

G. Appendix

Home Energy House Call Direct Mail



Energy Efficient Appliances and Devices

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A. Description

The Energy Efficient Appliances and Devices program ("Program") offers a variety of measures that allow eligible Duke Energy Carolinas, LLC (the "Company") customers to take action and reduce energy consumption. The Program includes offers for lighting measures, pool pumps, heat pumps water heaters and water measures.

Compact Florescent Lamps Measure

The Compact Fluorescent Lamps ("CFLs") measure is designed to increase the energy efficiency of residential customers by offering customers CFLs to install in high-use fixtures within their homes.

The CFLs are offered through multiple channels to eligible customers. The on-demand ordering platform enables eligible customers to request CFLs and have them shipped directly to their homes. Eligibility is based on past campaign participation (i.e., coupons, Business Reply Cards ("BRCs") and other Company programs offering CFLs). Bulbs are available in 3-, 6-, 8-, 12- and 15-pack kits that have a mixture of 13 watt and 20 watt bulbs. The maximum number of bulbs available for each household is 15, but customers may choose to order less.

Customers have the flexibility to order and track their shipment through three separate channels:

1) Telephone: Customers may call a toll-free number to access the Interactive Voice Response ("IVR") system, which provides prompts to facilitate the ordering process. The IVR is designed to handle request for both English and Spanish-speaking customers. Customers may easily validate their account, determine their eligibility and order their CFLs over the phone.

2) The Company's Web Site: Customers can go online to order CFLs. Eligibility requirements and frequently asked questions are also available.

3) Online Services ("OLS"): Customers enrolled in the Company's Online Services may order CFLs through the Company's web site, if they are eligible.

Specialty Lighting

The Duke Energy Savings Store ("Store") is an extension of the on-demand ordering platform enabling eligible customers to purchase specialty bulbs and have them shipped directly to their homes. The Store launched on April 26, 2013 and offers a variety of CFLs and Light Emitting Diodes lamps ("LEDs") including; Reflectors, Globes, Candelabra, 3 Way, Dimmable and A-Line type bulbs. The incentive levels vary by bulb type and the customer pays the difference, including shipping. The maximum number of bulbs eligible for the Company offered incentive for each household varies by category, but customers may choose to order additional bulbs but will not receive the Company offered incentive.

Customers can check eligibility and shop for specialty bulbs through three separate channels:

1) The Company Web Site: Customers can go online to visit the Store and purchase specialty bulbs. Frequently asked questions and a savings calculator are available to help customers understand how much they can save and how sustainable they can be by purchasing and using CFL and LED lighting.
2) Online Services: Customers enrolled in the Company's Online Services may visit the Store and purchase specialty bulbs. Upon login, eligible customers are intercepted with the Store offer. Customers can select "Shop Now" or "No Thanks". Additional links and promos within OLS are also available for customers to access the Store.
3) Phone Ordering: In September of 2014, customers were provided with the opportunity to order by phone. A toll free phone number is now provided on all promotional pieces for the

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program and customers can place their orders over the phone directly with the programs third party vendor.

The Store is managed by a third party vendor, Energy Federation Inc. ("EFI"). EFI is responsible for maintaining the Store website and fulfilling all customer purchases. The Store's landing page provides information about the store, lighting products, account information and order history. Support features include a toll free number, package tracking and frequently asked questions.

An educational tool is available to help customers with their purchase decisions. The interactive tool provides information on bulb types, application types, savings calculator, lighting benefits, understanding watts versus lumens (includes a video) and recycling/safety tips. Each wireframe within the educational tool provides insight on the types of bulbs customers can purchase and/or provides answers to questions they have about the products or savings.

Product pages for each bulb category include application photos, product images, product specifications, purchase limits and program pricing. Customers may place items in their shopping carts to purchase at a later time. Customers can pay for their purchase with a credit card or by check.

Benefits of the three distinct channels for the CFL and Savings Store include:

- Improved customer experience
- Advanced inventory management
- Simplified program coordination
- Enhanced reporting
- Increased program participation
- Reduced program costs
- Quick and convenient
- Discounted pricing

Water Measures

The Save Energy and Water Kit Program ("SEWK") is designed to increase the energy efficiency of residential customers by offering customers low flow water fixtures and insulated pipe tape for use within their homes.

The SEWK program is offered through a selective ordering platform, enabling eligible customers to request a kit and have it shipped directly to their homes. Customer who reside in a single-family home with an electric water heater and have not received similar measures through another Company-offered energy efficiency program. Kits are available in 3 sizes for homes with 1, 2 or 3 full bathrooms and contain varying quantities of shower heads, bathroom aerators, kitchen aerator and insulated pipe tape. Program participants with at least one electric water heater are eligible for one kit shipped free of charge to their home.

Customers are pre-screened based on the eligibility requirements and mailed a BRC. Upon receiving the BRC from the customer, the Company will ship the eligible kit to the customer. Due to the unique eligibility requirements of this program, the BRC is only channel the Company is currently employing to offer the kits to customers.

High Efficiency Pool Pumps

The High Efficiency Pool Pumps measure ("Pool Energy Efficiency Program") is designed to encourage the purchase and installation of energy efficient variable speed pool pumps for residential in-ground swimming pools. Eligible customers receive an incentive of $300 for the replacement of an eligible single-speed pool pump with a new Energy Star certified variable speed pump. New swimming pool construction

Energy Efficient Appliances and Devices

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is also eligible for the rebate. The program is marketed through a network of participating contractors ("Trade Allies") that interface directly with the customer, as well as through various marketing channels such as direct mail, email, company website, bill inserts and other customer communications. Eligible customers include single-family, owner-occupied residential customers with an in-ground pool in the Duke Energy Carolinas service territory. Builders of single-family residences are eligible for new residence construction that includes an in-ground swimming pool.

High Efficiency Heat Pump Water Heater

The High Efficiency Heat Pump Water Heater measure is designed to encourage the installation and adoption of heat pump water heaters. Eligible customers receive an incentive of $350 for the replacement of an existing electric water heater with an Energy Star certified heat pump water heater having an Energy Factor (EF) rating of 2.0 or higher. The program is marketed through a network of participating contractors ("Trade Allies") that interface directly with the customer, as well as through various marketing channels such as direct mail, email, company website, bill inserts and other customer communications. Eligible customers include single-family, owner-occupied residential customers with electric water heating in the Duke Energy Carolinas service territory. Builders of single-family residences that include an eligible heat pump water heater are also eligible for the rebate.

Audience

Customers who meet the Program eligibility requirements.

B &C. Impacts, Participants and Expenses

Energy Efficient Appliances and Devices[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$10.6	$50.8	481%
Program Cost	$5.9	$14.7	249%
MW	2.9	18.4	625%
MWH	27,602.5	167,039.2	605%
Units	715,209	5,069,137	709%

1) Values are reflected at the system level.
2) Numbers rounded.

D. Qualitative Analysis

CFL

Highlights

Many customers have participated in the CFL Program by ordering bulbs through the IVR, OLS and the Company's website. Customers view this process as simple and enjoy the convenience of having bulbs shipped directly to their homes. Over 324,000 orders were placed in 2014. Participation is tracked at the account level which allows the Company to focus its attention and resources on non-program participants. Over 45 percent of the orders were placed through the toll-free phone number, while 18 percent of the orders were placed through OLS and 37 percent through the Company's website.

Issues

Analyzing customer data and finding ways to effectively market to non-participating customers.

Potential Changes

Innovative marketing campaigns will be utilized to improve awareness for hard-to-reach and late-adopter customers and cross promote the Store.

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Specialty Lighting

Highlights
Customers are responding well to the discounted specialty lamps offered via the Store. The Store provides functionality allowing customers to purchase CFLs and LEDs at any time. The 31,000 orders placed in 2014 resulted in over 452,000 bulbs. Over 76 percent of customer accessed the Store via the public website, while 24 percent accessed the store by logging into their on-line services account.

Issues
Educating and bringing awareness of the Store to eligible customers. Allowing customers without internet access or computers to order via mail-in order form or by calling the vendor and ordering by phone.

Potential Changes
Minimize or removing shipping cost from customer orders and continue to build the product portfolio for more lighting options and technologies. Implement a mail-in order form and/or provide a toll free number to call and order bulbs directly from the vendor, EFI.

Save Energy and Water Kit Program

Highlights
The SEWK program was launched in April 2014 and 61,240 BRCs were mailed by the Company through the end of 2014. The adoption rate for 2014 was approximately 14 percent, resulting in the distribution of approximately 8,930 kits to customers.

Issues
The Company continues to analyze data from non-respondents of the BRC offer to identify opportunities to increase the adoption rate.

Potential Changes
Innovative marketing campaigns will be utilized to improve awareness for hard to reach and late adopter customers. In 2015, the program may be added to our website where customers could check eligibility and enroll in the program.

High Efficiency Pool Pumps

Highlights
The program was launched in May 2014 with Trade Ally recruitment and training. Development of marketing material and customer-facing program information followed in June 2014. The Company partnered with several wholesale distributers across North Carolina and South Carolina during 2014 to serve as distribution channels for program awareness and developing the Trade Ally Network. Trade Allies are important to the program's success and will be targeted through these channels because they interface with the customer during the decision-making process.

Issues
Customer buy-in and participation of the Trade Ally network is vital to the success of the program. With the program launching in May 2014, the recruitment window for a seasonal product was challenging and proved to be slow until contractors had more time to focus on upcoming opportunities for their businesses which was outside of the participation window.

High Efficiency Heat Pump Water Heater

Highlights

Energy Efficient Appliances and Devices

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The program was launched in June 2014 with Trade Ally recruitment and training. Development of marketing material and customer-facing program information followed in July 2014. The Company partnered with several manufactures and national retailers across North Carolina and South Carolina during 2014 to increase program awareness and gain maximum exposer at the time of purchase. Contractors who were registered for the HVAC program were recruited to offer the program in an extension to their current service opportunities.

Issues
Educating and bring awareness of the program to both customers and potential contractors.

Educating contractors was addressed through Trade Ally marketing, recruitment and training but remained slow do to the re-emerging technology of heat pump water heaters and willingness to adopt more services to be offered. Customer awareness is being addressed through program design and marketing tactics but will be primarily targeted as a joint effort with manufactures and national retailers. Their willingness to co-brand and the frequency of those campaigns will be critical in reaching our customer base.

E. Marketing Strategy

CFL
The overall strategy of the program is to reach residential customers who have not adopted CFL bulbs. The Company will continue to educate customers on the benefits of CFLs while addressing barriers for customers who have not participated in the program. Additionally, the ease of Program participation will also be highlighted to encourage use of the on-demand ordering platform. The CFL and Specialty Lighting offers utilize the same ordering platform which allows the Company to promote both lighting offers efficiently and bring awareness to non-adopters.

Direct mail marketing has generated a significant number of orders in both North Carolina and South Carolina. New customers are made aware of the offer through a quarterly letter which has an average response rate of 15 percent Samples of the marketing collateral used for these campaigns are available in the Appendix.

Specialty Lighting
Since the launch of the Store, the marketing efforts include bill messages, bill inserts, email campaigns and direct mail. Examples of the marketing pieces can be found in the Appendix. Awareness and education will be the main focus in collateral messages to eligible customers.

Save Energy and Water Kit Program

The overall strategy of the program is to reach residential customers who have not adopted low flow water devices. The Company will continue to educate customers on the benefits of low flow water devices while addressing barriers for consumers who have not participated in the program.

Direct mail marketing in the form of BRCs is the only marketing channel being utilized by this program in the Carolinas. The Company may add a web-based ordering platform in 2015.

High Efficiency Pool Pumps
The Company implemented several customer marketing campaigns in 2014 which leveraged channels such as email, paid search, and display ads to build awareness of the program. The programs website was launched and provided a more thorough explanation of the benefits these services offer and how to find a participating contractor.

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High Energy Efficiency Heat Pump Water Heater
The Company implemented several customer marketing campaigns in 2014 which leveraged channels such as bill inserts, email, paid search, and display ads to build awareness of the program. Other channels such as co-branded retail displays with selected manufactures and national retailers were utilized to create awareness for the program. The programs website was launched and provided a more thorough explanation of the benefits these services offer and how to find a participating contractor or retailer.

F. Evaluation, Measurement and Verification
The impact and process evaluation results for Energy Efficiency Appliances and Devices, Specialty Bulbs is included the Rider 7 filing as Ham Exhibit E. The process evaluation included interviews with program management, customer participants, and customer non-participants.

The impact evaluation utilized established algorithms to calculate impacts, utilizing data from participant surveys. The per-unit impacts reported in the evaluation are shown in the following chart:

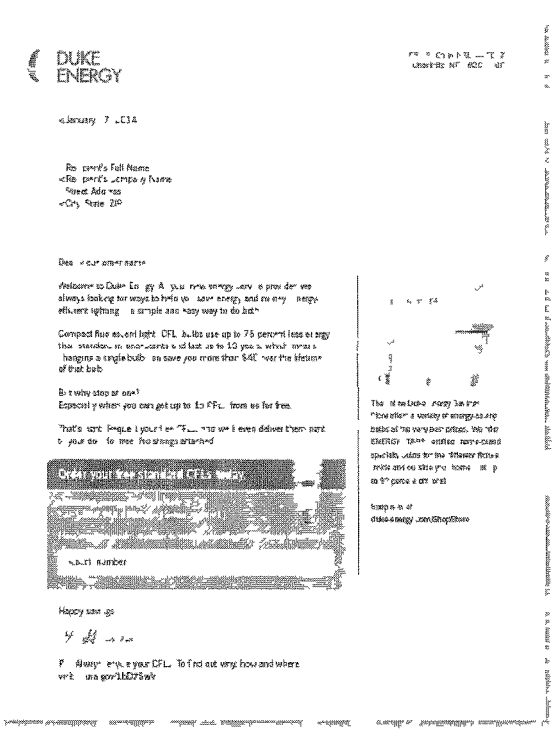
	Gross	Net
Indoor Reflector (Recessed)	39.5	30.0
Dimmable Reflector (Recessed	38.3	29.1
Outdoor Reflector (Recessed	100.4	76.2
Reflector (Recessed LED)	67.4	51.2
Globe	22.3	17.0
Candelabra	18.6	14.1
Three Way Spiral	53.1	40.3
Dimmable Spiral	59.0	44.8
Capsule (A Line)	34.6	26.3
Capsule (A Line LED)	37.6	28.5

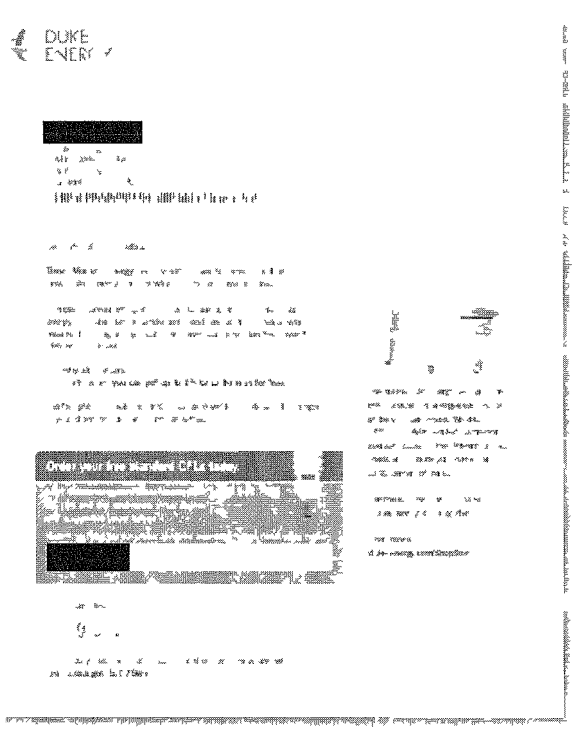
Currently, evaluation work is underway on the Residential CFL measure with a report scheduled to be completed in third quarter of 2015 and on single family water energy efficiency measures with a report scheduled to be completed in fourth quarter of 2015. The evaluation schedule of the single family water energy efficiency measures has been adjusted to be aligned with the launch that occurred in April 2014. In addition, participation is being monitored for heat pump water heaters and pool pump measures with an evaluation report tentatively scheduled for first quarter of 2016.

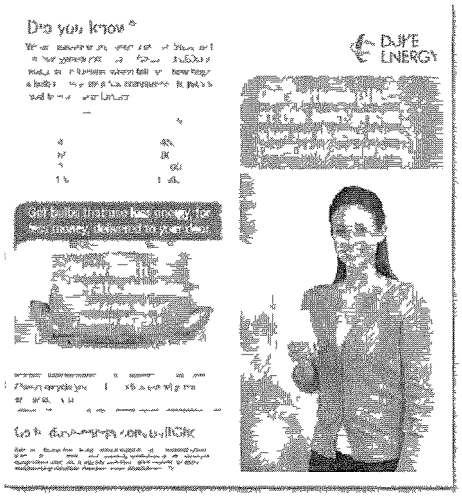
Energy Efficient Appliances and Devices

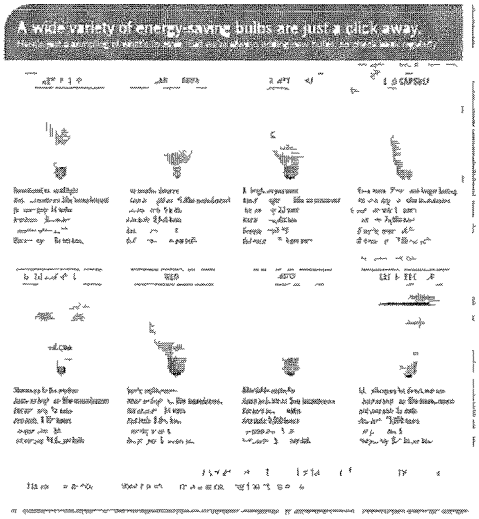
G. Appendix

CFL – Direct Mail Campaign









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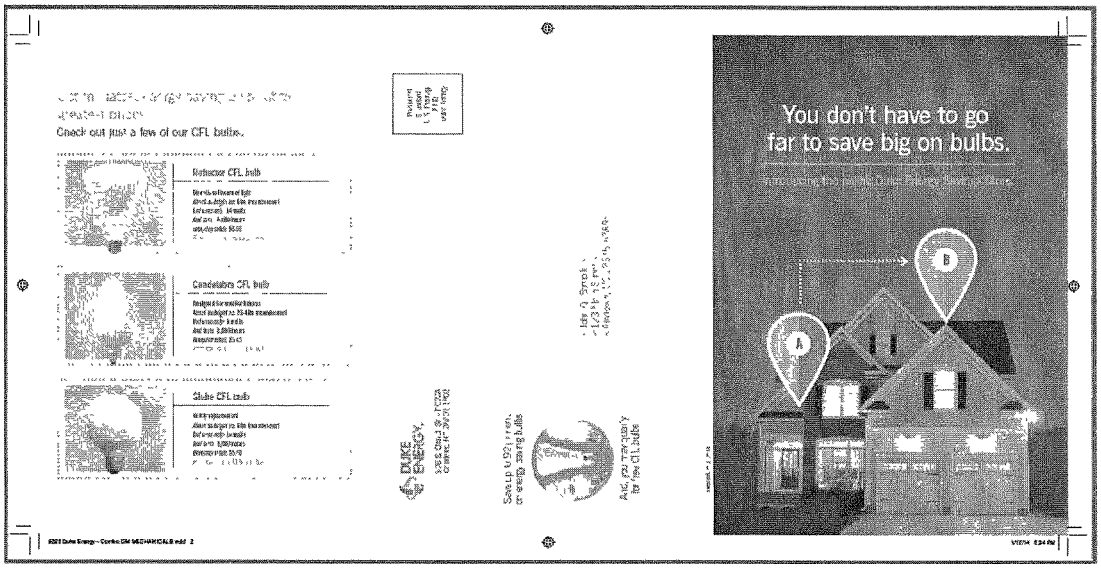
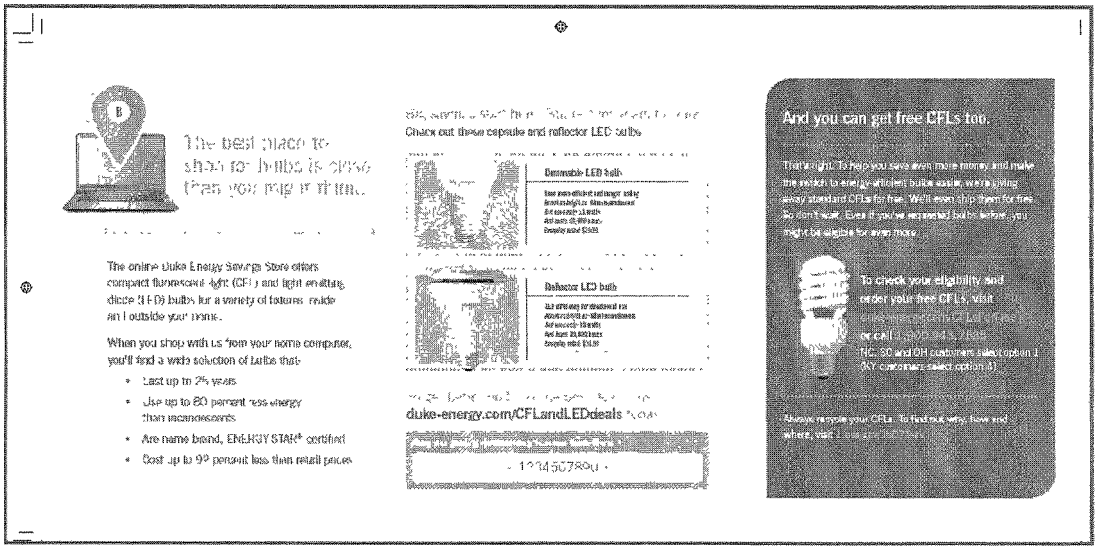
Energy Efficient Appliances and Devices





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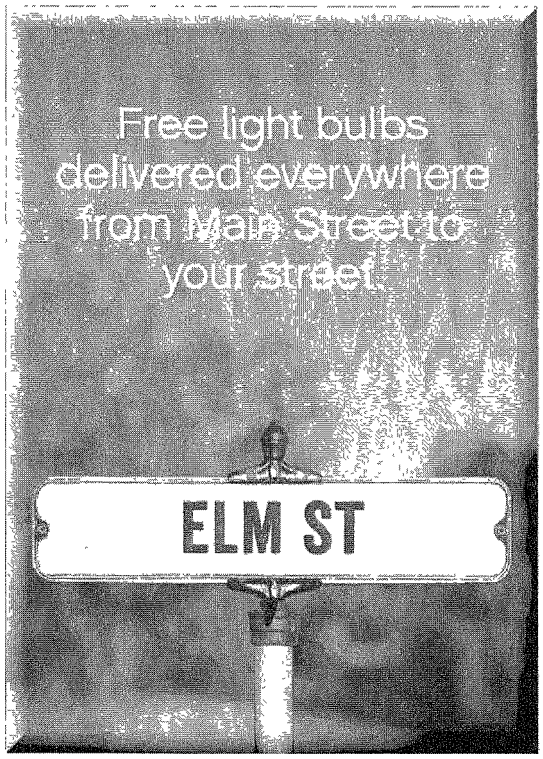
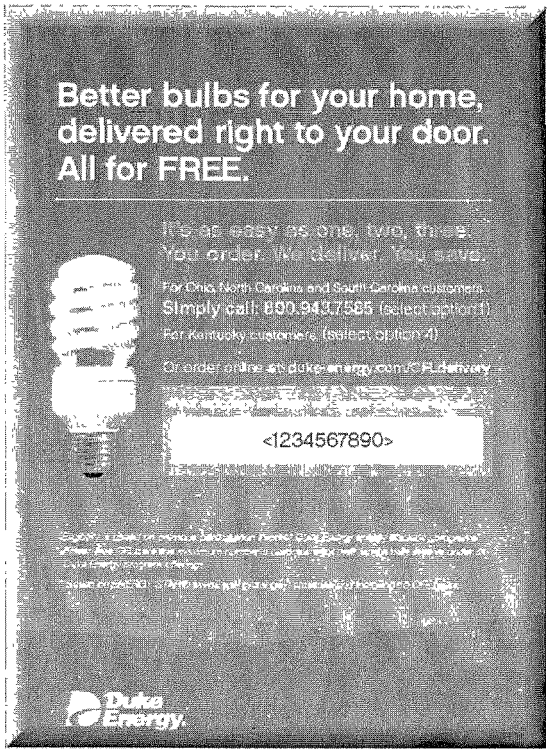
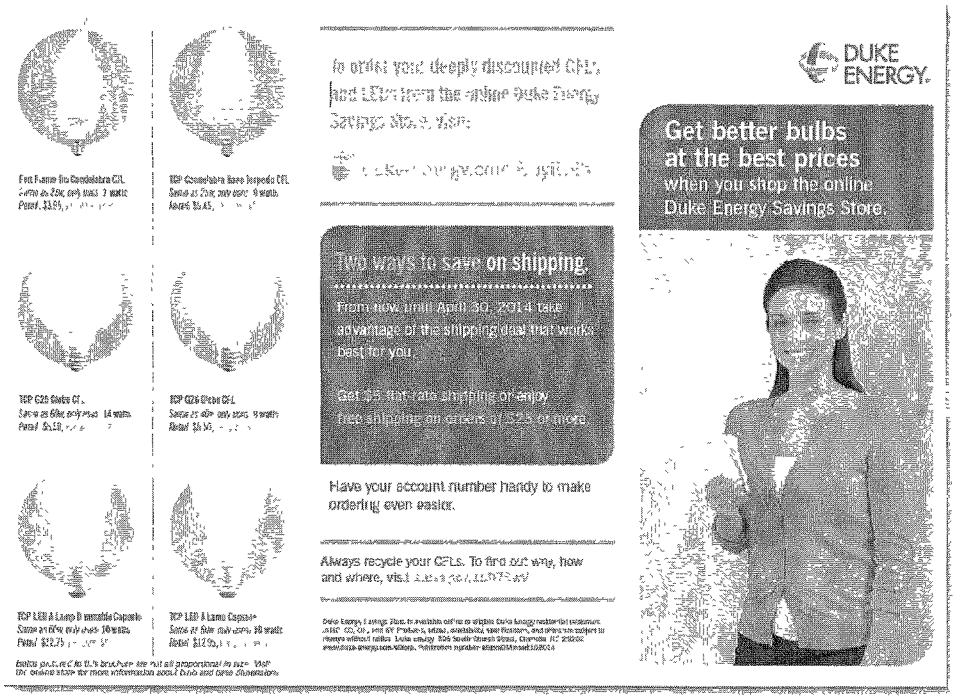




Savings Store – Specialty Bulbs



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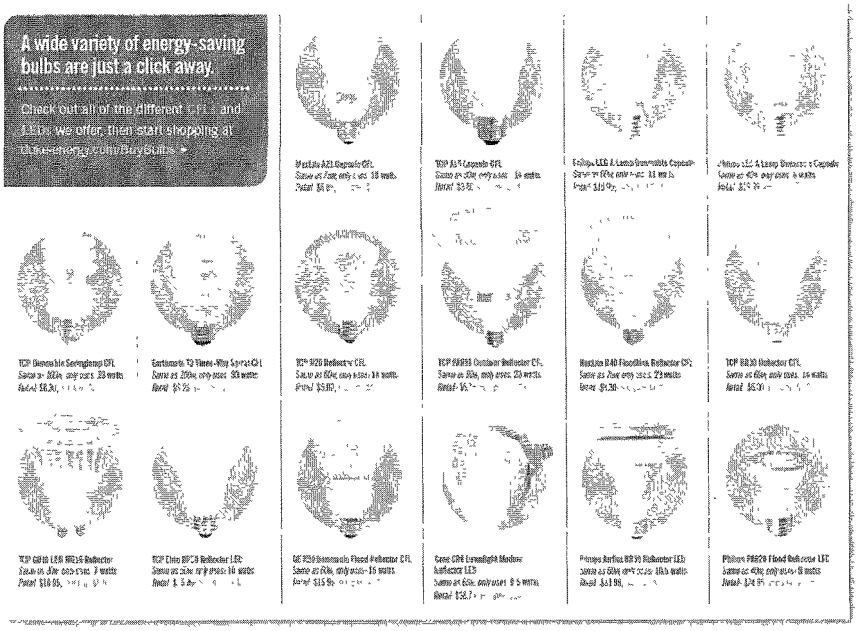

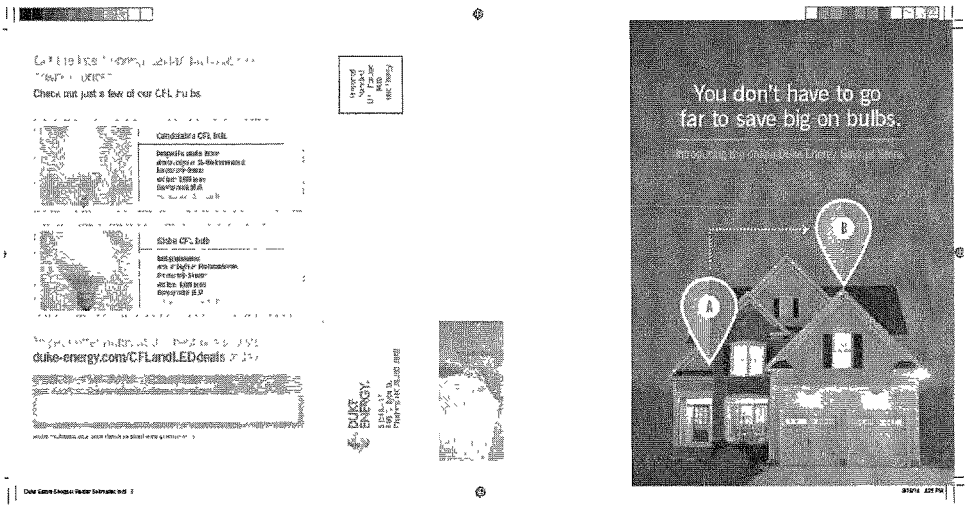

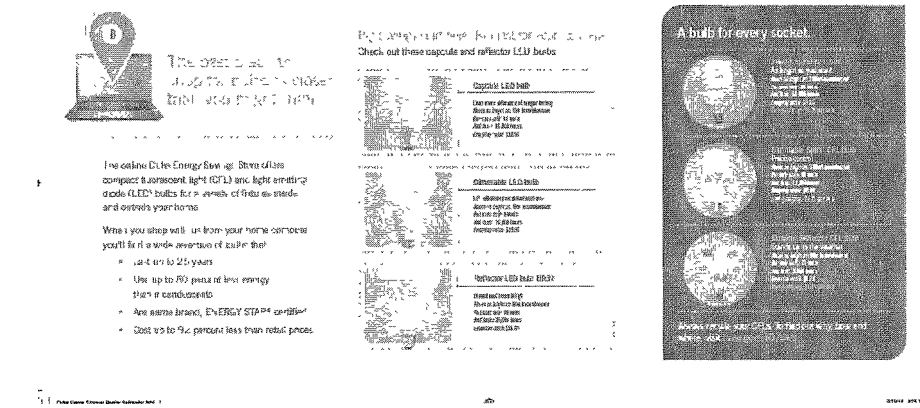

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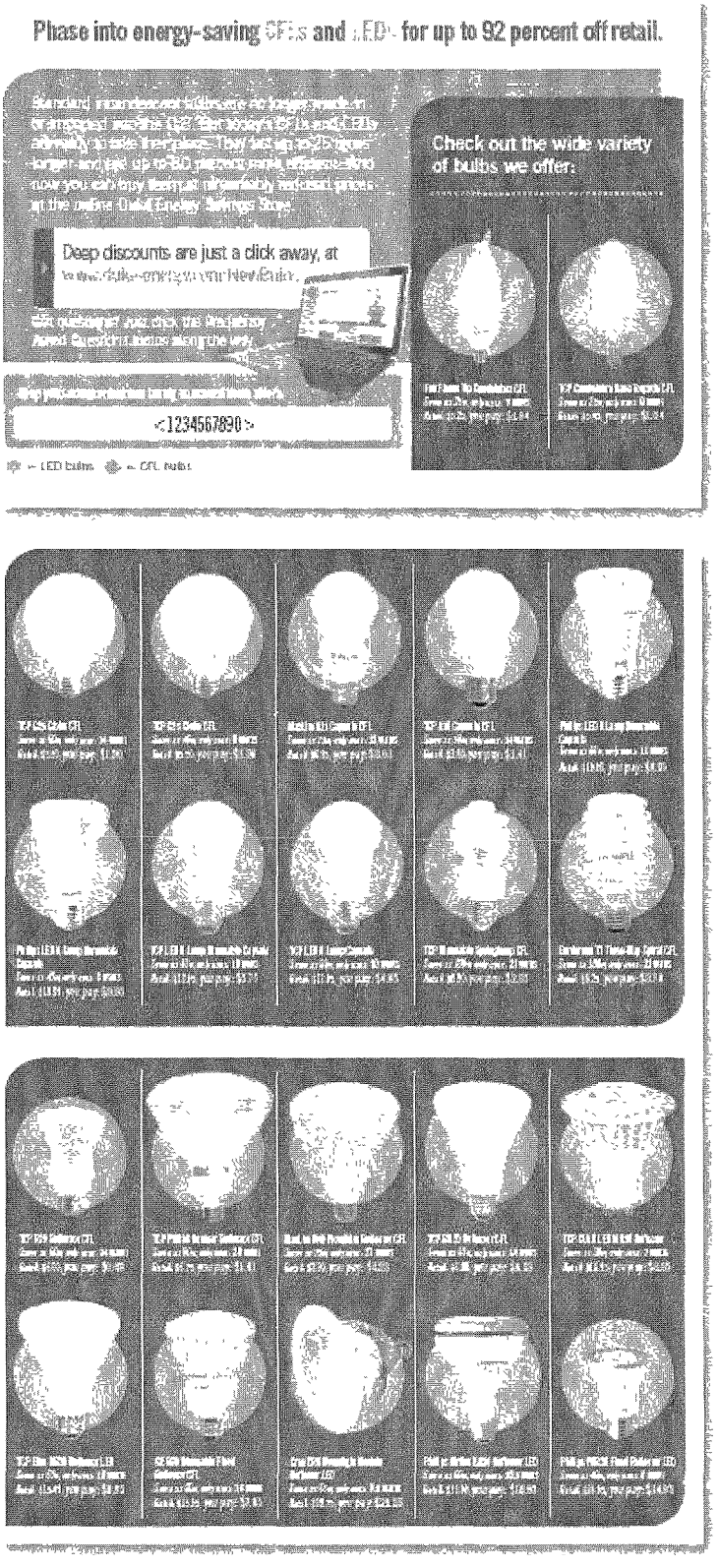

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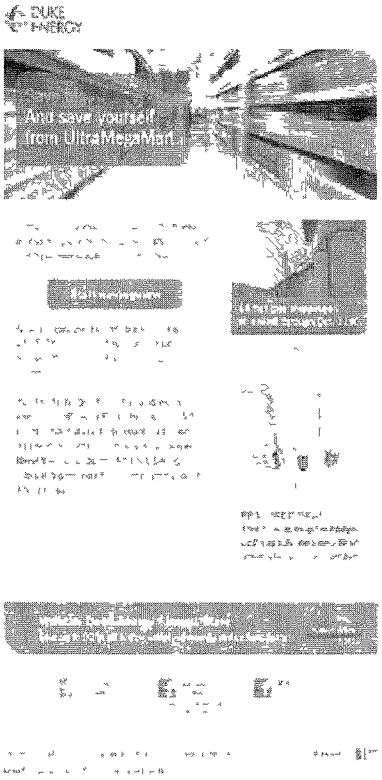

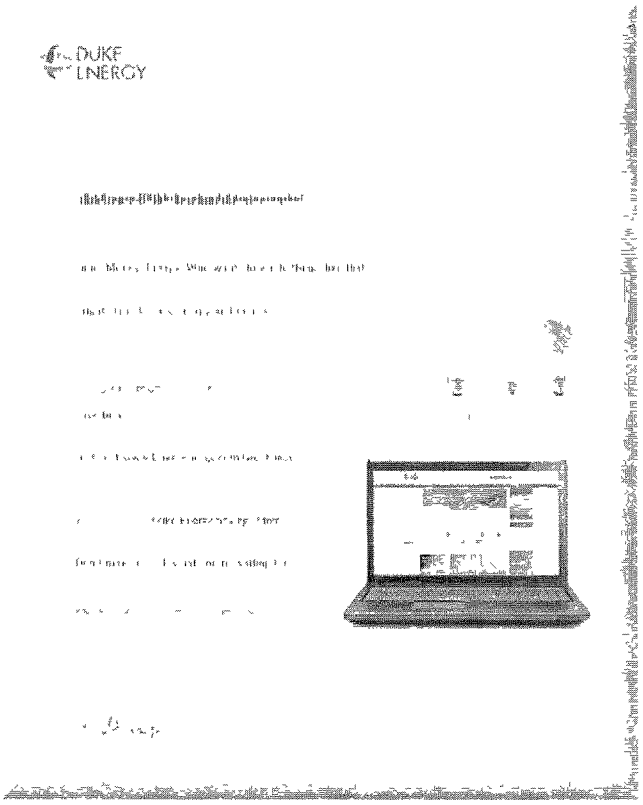

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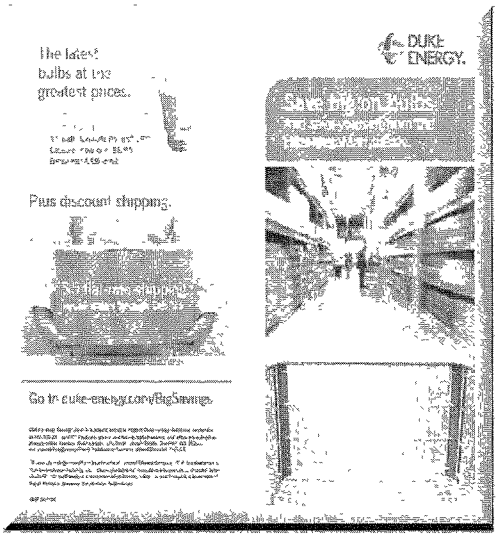

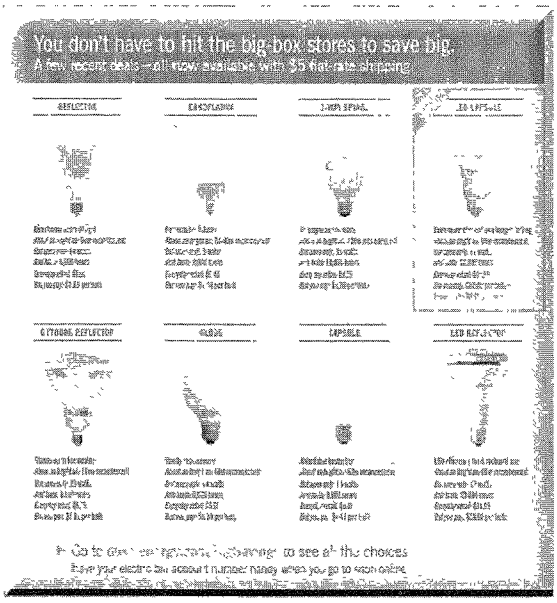

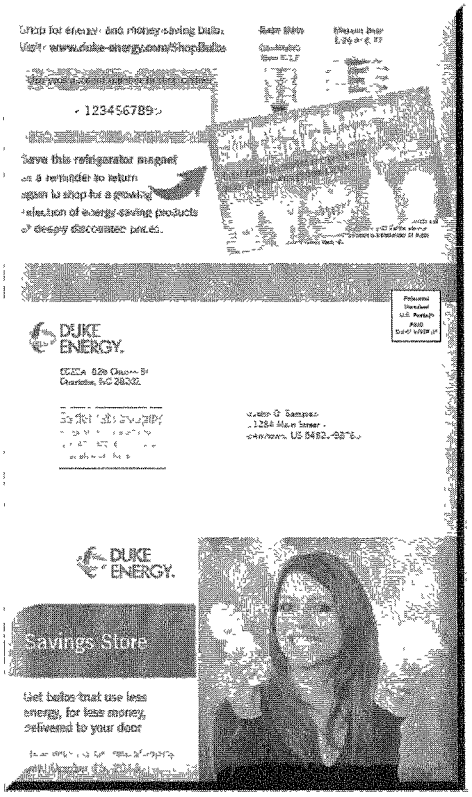

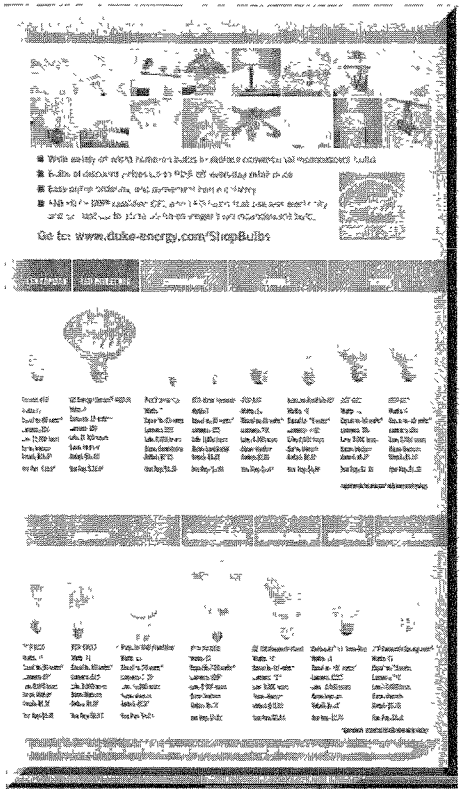

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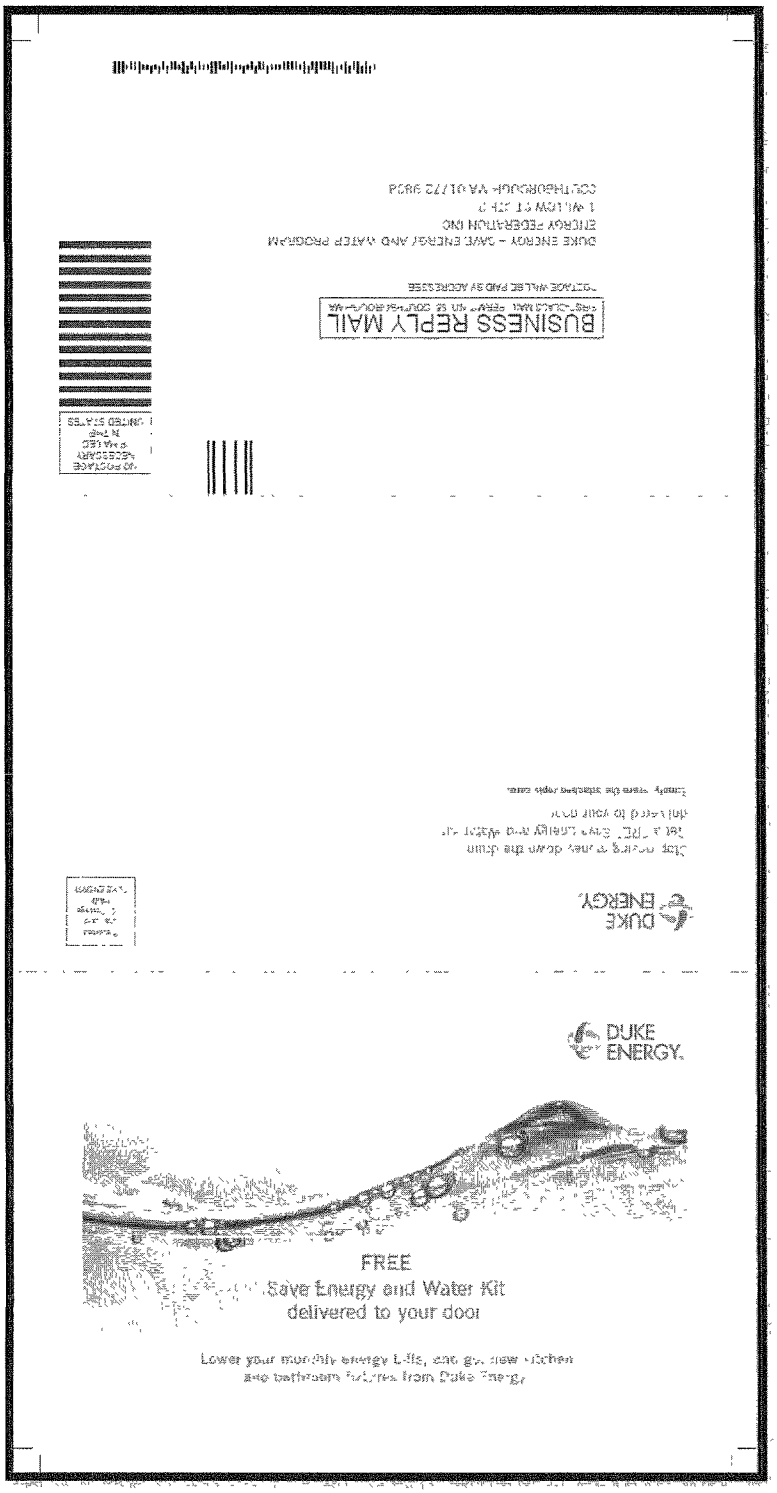

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Order + Install = **SAVE** up to $120 each year

Would you like to save energy and water at home and save money on your utility bills? It's simple! **Just sign up to receive one of the FREE Save Energy And Water Kits** we're offering exclusively to our customers.

These kits include the latest low flow showerheads, kitchen and bathroom faucet aerators, water heater pipe insulation material, and a step by step, do-it-yourself installation guide.

Did you know that your electric water heater is the second largest energy expense in your home?

See how easy it is to install these products with our brief installation video at duke-energy.com/save-water

Inside the Save Energy and Water Kit

Low-flow showerheads

Faucet aerators

Installation tape for your water heater pipes

Installation guide and how-to video

To learn more about this new program, go to duke-energy.com/saveenergy or call 866 807 1544

YES, send me my FREE Save Energy and Water Kit!

DUKE ENERGY.

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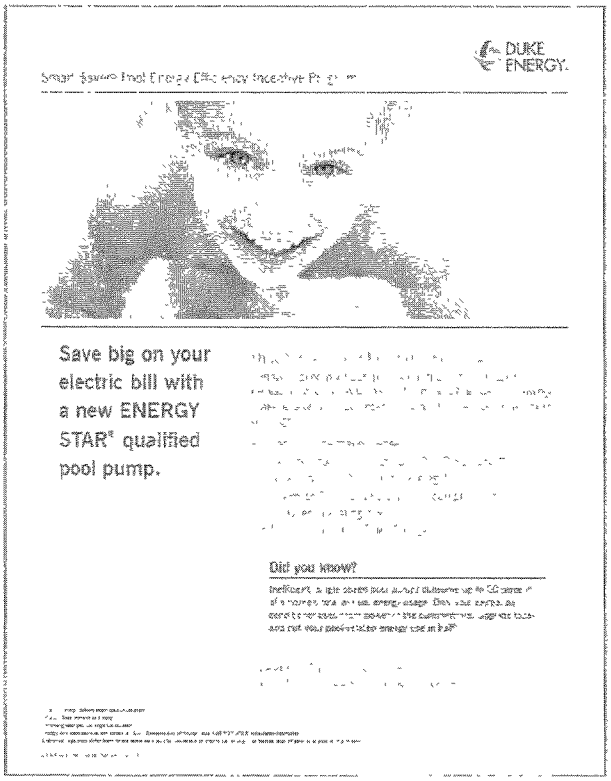
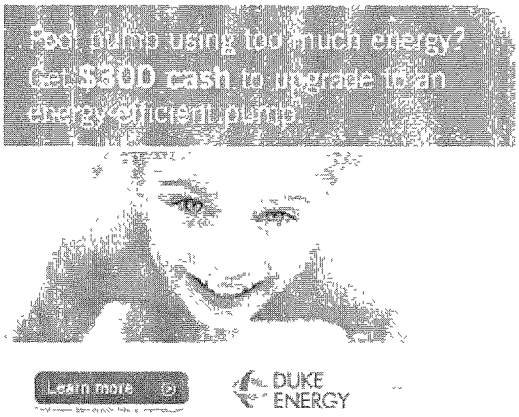
High Efficiency Pool Pump Customer Factsheet



High Efficiency Pool Pump Display Ad



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Energy Efficient Appliances and Devices

High Efficiency Pool Pumps Product Webpage

Energy Efficiency Programs

Is your pool pump using too much energy?

Get $300 cash when you upgrade to an energy-efficient model.

Switching to a more energy-efficient pool pump can save you big

Why variable speed pool pumps are so efficient

Variable speed pool pumps work at the minimum speed necessary to clean your pool. This means they use less energy, make less noise, last longer and actually filter your water more thoroughly.

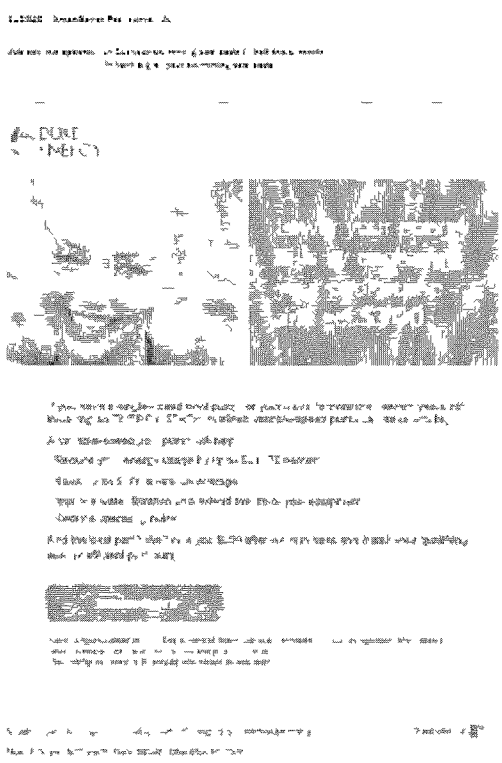
Contractor Search

Find a pool

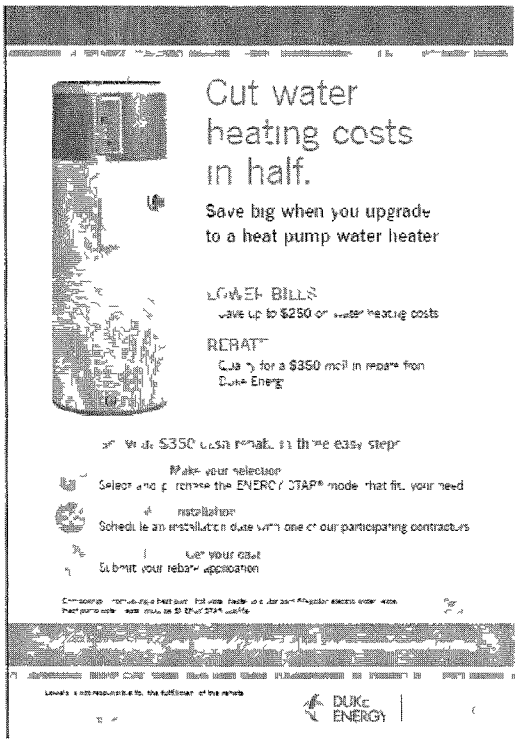
Frequently asked questions

Energy Efficient Appliances and Devices

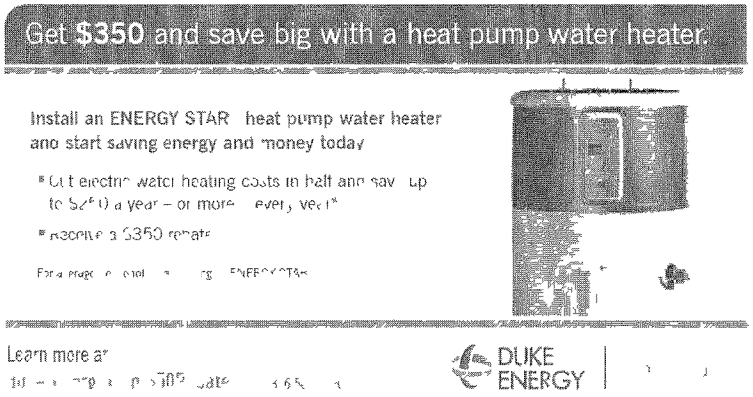
High Efficiency Pool Pump Email



High Efficiency Heat Pump Water Heater National Retailer Display



Heat Pump Water Heater Bill Insert



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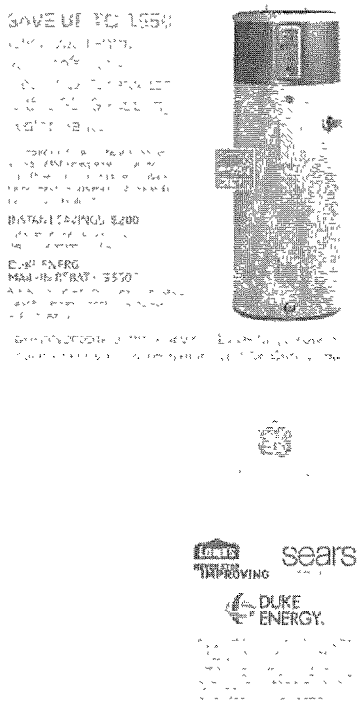
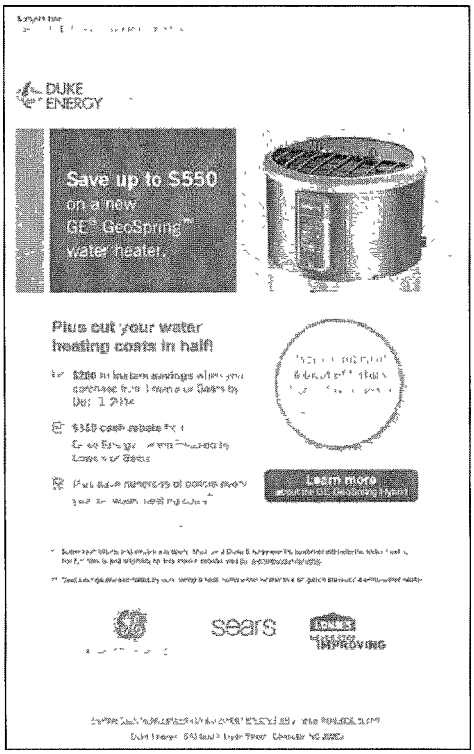
Energy Efficient Appliances and Devices

Heat Pump Water Heater Co-Branded Campaign



Heat Pump Water Heater Email



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Residential HVAC Energy Efficiency Program

A. Description

The Residential HVAC Energy Efficiency Program ("Program") offers measures that allow eligible Duke Energy Carolinas, LLC (the "Company") customers to take action and reduce energy consumption in the their home, including direct action against the home's single-largest user. The Program offering provides incentives for the purchase and installation of eligible central air conditioner or heat pump replacement. In addition, Program participants may receive an incentive for central air conditioner tune up, heat pump tune up, attic insulation, air sealing, duct sealing and duct insulation.

Program staff is responsible for establishing relationships with HVAC and home performance contractors as well as home builders ("Trade Allies") who interface directly with residential customers. These Trade Allies market and leverage the Program to assist with selling these products and services to customers. Once the Trade Ally has sold the service/product, they adhere to Program requirements for completion and submit incentive applications on behalf of the customer. An incentive check is disbursed to the customer and/or Trade Ally after the application has been approved and processed.

Duke Energy contracts with third party vendor who is responsible for application processing, incentive payment disbursement, and Trade Ally and customer call processing.

Audience

The Company's residential customers that meet the eligibility requirements of the Program.

B &C. Impacts, Participants and Expenses

HVAC Energy Efficiency[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	**$12.9**	**$7.1**	**55%**
Program Cost	**$6.3**	**$4.8**	**76%**
MW	**3.6**	**2.5**	**69%**
MWH	**8,026.7**	**4,526.2**	**56%**
Units	**16,153**	**12,866**	**80%**

1) Values are reflected at the system level.
2) Numbers rounded.

D. Qualitative Analysis

Highlights

The Company partnered with select participating Trade Allies across North Carolina and South Carolina during 2014 to offer discounted heat pump and central air conditioner tune ups and home energy audits to eligible customers. The campaigns received a positive reaction from customers as well as Trade Allies. The Company is evaluating additional opportunities to structure the program to hedge against additional efficiency standard changes and increased building code requirements while continuing to operate under the traditional cost effective models.

Issues

The buy-in and participation of the Trade Ally network is vital to the success of the Program. The Program aims to transform the market; shifting market practices away from some of the more commonly utilized practices which rely heavily on decentralized training and varying knowledge levels, as well as imprecise

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Residential HVAC Energy Efficiency Program

and manual field calculations, towards industry trained and certified trade allies using higher quality diagnostic instruments and processes. The Company has struggled to gain contractor acceptance with the tune and seal measures due to the required diagnostic equipment purchases, obtaining additional industry certifications and altering current business practices. The Company has had to remove many of the early adopting Trade Allies from the Program due to disengagement and inability to perform according to the program requirements. The seasonality of the tune-up program was affected by the cooler weather in the fourth quarter which did not allow for the minimum outdoor temp of 65 degrees to be reached to implement the programs Check Me diagnostic software and ultimately affected year-end participation.

In addition to not meeting the filed participation, the program performed an impact evaluation which determined that impacts associated with most of the tune and seal measures fell below previous assumptions. This was due to several factors which included: Participants having ductwork sealed or insulated in unconditioned basements and crawlspaces where the impacts are lower than the participants where the service was performed in unconditioned attics. A small number of participants also had ductwork sealed and insulated in what was considered conditioned basements which provided no savings.

The evaluation for the tune-up measures noted that 30 percent of the participants did not require significant refrigerant charge or air flow adjustments which equated to minimal efficiency gains and some participants had data quality issues which also contributed to the savings degradation.

E. Marketing Strategy

Promotion of the HVAC segment of the Program is primarily targeted to HVAC and home performance contractors as well as new home builders. Trade Allies are important to the Program's success because they interface with the customer during the decision-making event, which does not occur often for most customers.

Program information and Trade Ally enrollment forms are available on the Program's re-designed website to educate customer about the Program and encourage participation. By increasing the overall awareness of the Program and the participation of Trade Allies, it ensures more customers are discussing the benefits of the Program at time of purchase.

The Company implemented several customer marketing campaigns during 2014 which leveraged channels such as direct mail and email to build awareness of the program. Other channels such as a paid search and co-branded direct mail campaigns with selected Trade Allies were also utilized to create awareness for the program. The Program website was re-designed to provide a more thorough explanation of the benefits these services offer which included more visual examples from the previous site.

F. Evaluation, Measurement and Verification

The impact evaluation report for the HVAC Energy Efficiency Tune and Seal measures was completed near the end of 2014. The report is included the Rider 7 filing as Ham Exhibit F. The evaluation included telephone surveys with Trade Allies and customer participants. Impacts were calculated through an engineering analysis, utilizing data in the program tracking database and program application information. The per-unit impacts reported in the evaluation are shown in the following chart:

Residential HVAC Energy Efficiency Program

	Gross kWh	Net kWh
Attic insulation and air leakage sealing	1,163	1,051
Duct sealing	255	231
Duct insulation	519	469
Air Conditioner tune-up	70	63
Heat Pump tune-up	237	214

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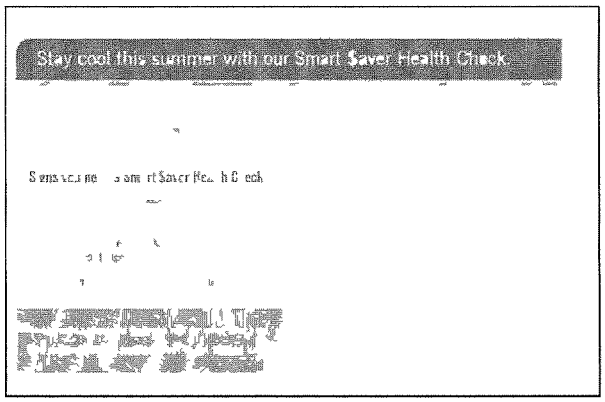
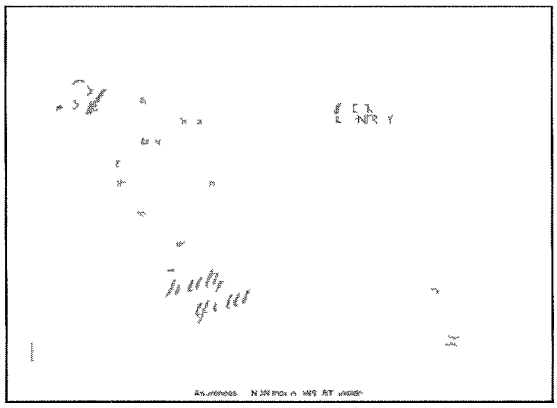
Residential HVAC Energy Efficiency Program

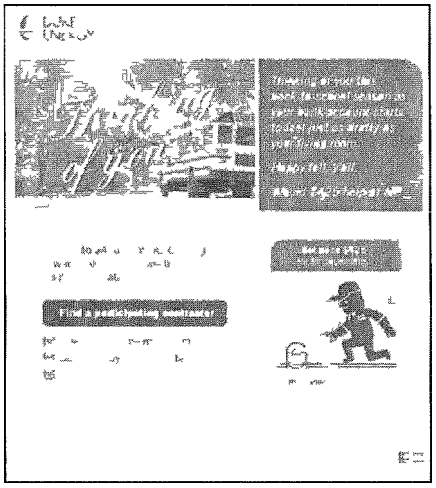
G. Appendix

Residential HVAC – Direct Mail

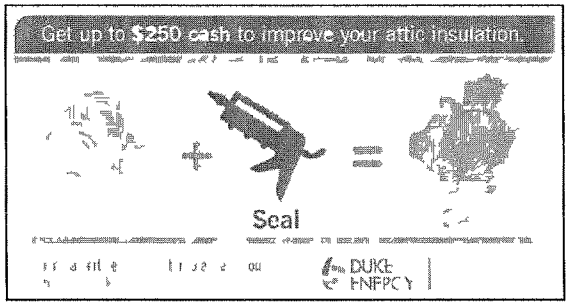




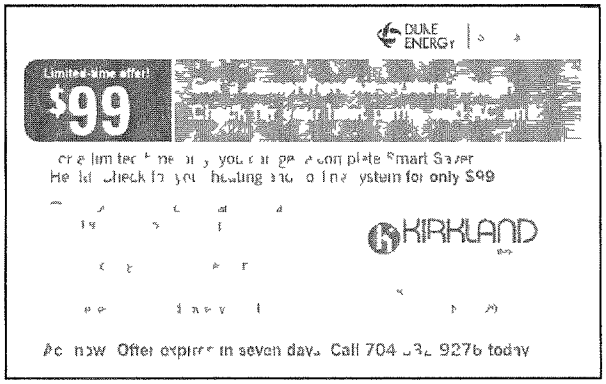
Residential HVAC – Email Message

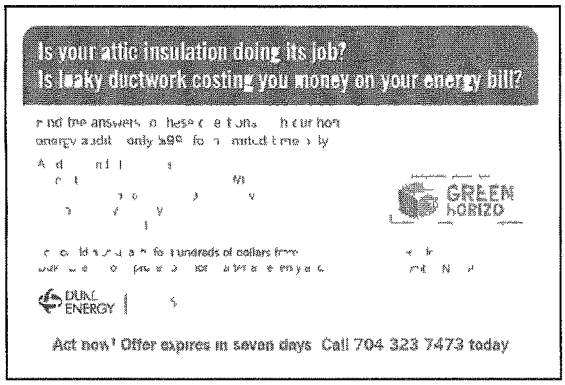


Residential HVAC – Bill Insert



Residential HVAC – Co-Branded Campaigns





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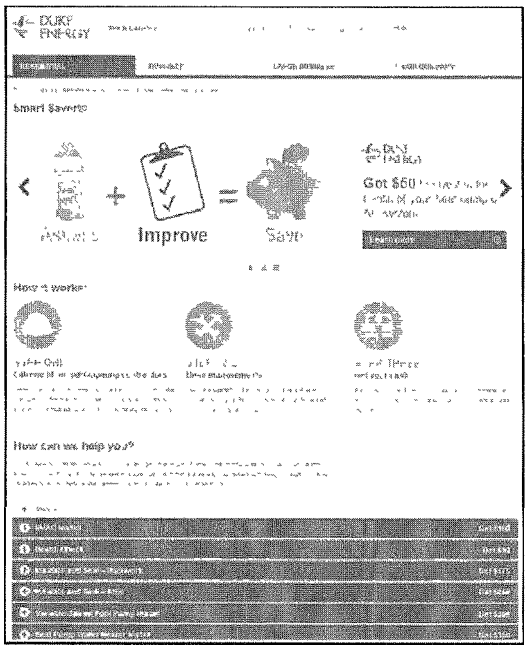
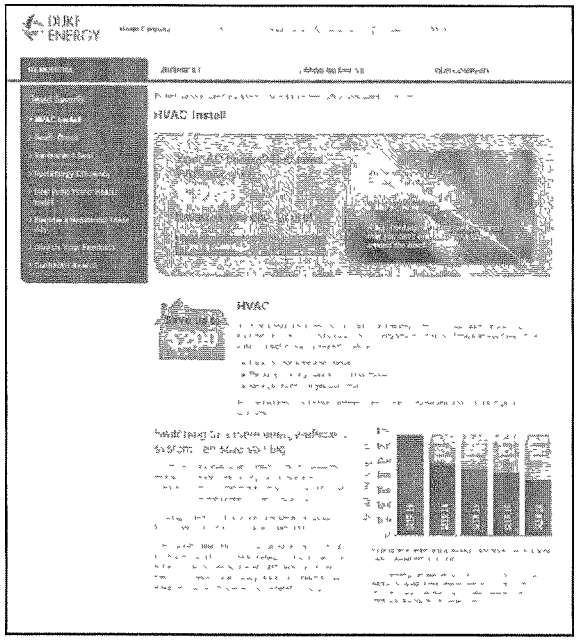
Residential HVAC Energy Efficiency Program

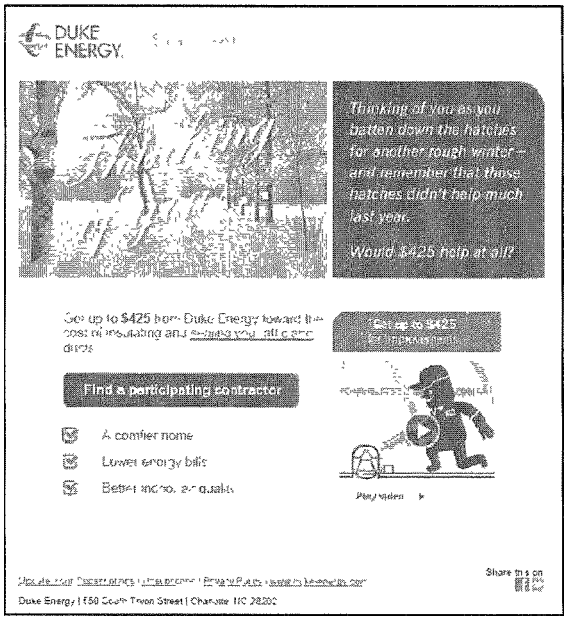
Residential HVAC – Website Re-Design



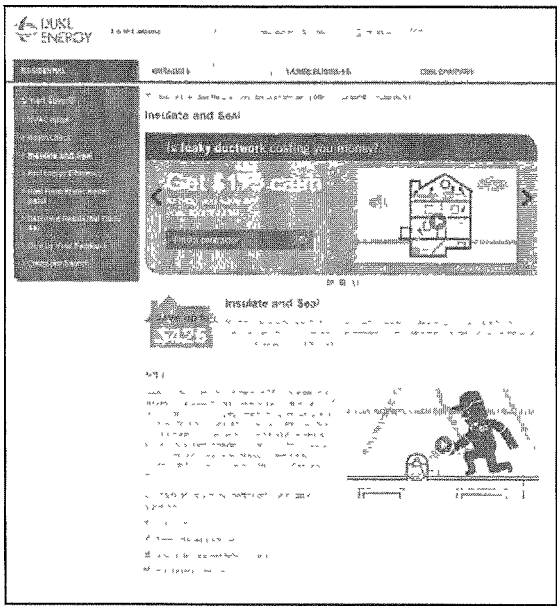
Residential HVAC – Website Re-Design



Residential HVAC – Email Message



Residential HVAC – Website



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Income-Qualified Energy Efficiency and Weatherization Assistance Program

A. Description

The purpose of the Low Income Energy Efficiency and Weatherization Assistance Program ("Program") is to assist low income customers with energy efficiency measures in their homes to reduce energy usage. There are three offerings currently in the Program: the Residential Neighborhood Program ("RNP"), the Weatherization and Equipment Replacement Program ("WERP"), and the Refrigerator Replacement Program ("RRP").

WERP and RRP are available for qualified customers in Duke Energy Carolinas, LLC's (the "Company's") service territory for existing, individually metered, single-family, condominiums, and mobile homes. Funds are available for (i.) weatherization measures, and/or (ii.) heating system replacement with a 14 or greater SEER heat pump, and/or (iii.) refrigerator replacement with an Energy Star appliance. The measures eligible for funding will be determined by a full energy audit of the residence. Based on the results of the audit, customers are placed into a tier based on energy usage, allowing high energy users to receive more extensive weatherization measures. WERP and RRP are delivered in coordination local agencies that administer state weatherization programs.

Customers participating in the RNP receive a walk-through energy assessment to identify energy efficiency opportunities in the customer's home and a one-on-one education on energy efficiency techniques and measures. Additionally, the customer receives a comprehensive package of energy efficient measures. RNP participants may have the measures listed below installed in their home based on the opportunity identified from the energy assessment.

1. Compact Fluorescent Bulbs - Up to 15 compact fluorescent bulbs to replace incandescent bulbs.
2. Electric Water Heater Wrap and Insulation for Water Pipes.
3. Electric Water Heater Temperature Check and Adjustment.
4. Low-Flow Faucet Aerators - Up to three low-flow faucet aerators.
5. Low-Flow Showerheads - Up to two low-flow showerheads.
6. Wall Plate Thermometer.
7. HVAC Winterization Kits – Up to three winterization HVAC kits for wall/window air conditioning units will be provided along with education on the proper use, installation and value of the winterization kit as a method of stopping air infiltration.
8. HVAC Filters - A one-year supply of HVAC filters will be provided along with instructions on the proper method for installing a replacement filter.
9. Change Filter Calendar.
10. Air Infiltration Reduction Measures - Weather stripping, door sweeps, caulk, foam sealant and clear patch tape will be installed to reduce or stop air infiltration around doors, windows, attic hatches and plumbing penetrations.

Audience

WERP is available to qualified customers in existing individually-metered, owner-occupied single-family residences, condominiums or manufactured homes.

RRP is available to qualified customers in individually-metered residences irrespective of whether the property owner or the tenant owns the refrigerator.

RNP is available to individually-metered residential customers in neighborhoods with approximately 50% of the homes identified as low income based on third party and census data, which includes income level and household size. Areas targeted for participation in RNP will typically have approximately 50% or more of the households with an income equal to or less than 200% of the poverty level established by the federal government.

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Income-Qualified Energy Efficiency and Weatherization Assistance Program

B &C. Impacts, Participants and Expenses

Income Qualified Energy Efficiency and Weatherization Assistance[1]			
$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	**$6.2**	**$1.7**	**27%**
Program Cost	**$11.3**	**$1.9**	**17%**
MW	**2.4**	**0.8**	**33%**
MWH	**10,977.5**	**3,374.8**	**31%**
Units	**11,244**	**9,082**	**81%**

1) Values are reflected at the system level.
2) Numbers rounded.

D. Qualitative Analysis

Highlights

Through the end of 2014, RNP offered free walk-through energy assessments to qualifying neighborhoods in Durham, NC; Kannapolis, NC; Charlotte, NC; Greensboro, NC; Burlington, NC; Gastonia, NC; Salisbury, NC; Mt. Airy, NC; Hickory, NC; Eden, NC; Marshville, NC; Winston Salem, NC; Thomasville, NC; Lancaster, SC; Spartanburg, SC; Chester, SC; Greenwood, SC; and Anderson, SC. Neighborhood events have included support from community groups and speakers such as elected officials, community leaders and community action agency representatives.

In addition to formal kick-off events, the Company has introduced "tent events" in select neighborhoods to allow customers to visit an information tent at their convenience for additional information about the RNP.

Due to changes in the program administrator, the Company plans to launch the WERP and RRP at the end of the first quarter of 2015 in North Carolina and South Carolina. The Company selected the program administrator, North Carolina Community Action Agency (NCCAA), in December 2014 via a request for proposal.

E. Marketing Strategy

The WERP and RRP plan to piggy-back the marketing efforts of the current state Weatherization Assistance Programs administered by the NCAAA and their respective weatherization service providers. Additionally, agencies may utilize referrals generated from other Company energy efficiency programs as well as from their existing pool of weatherization applicants.

The RNP continues to target neighborhoods with a significant low-income customer base using a grassroots marketing approach to interact on an individual customer basis to gain trust. Participation is driven through a neighborhood kick-off event that includes trusted community leaders and local and state officials explaining the benefits of the Program. The purpose of the kick-off event is to rally the neighborhood around energy efficiency and to educate customers on methods to lower their energy bills. Customers have the option to make an appointment for an energy assessment at the time of the event.

In addition to the kick-off event, the Company plans to use the following avenues to inform potential customers about the Program:

- Direct mail (letters and reminder post cards)
- Door hangers
- Press releases
- Community presentations and partnerships
- Inclusion in community publications such as newsletters, etc.

F. Evaluation, Measurement and Verification

~~There is currently no evaluation activity for this Program.~~ The impact and process report for the Residential Neighborhood Program is included in the Rider 7 filing as Ham Exhibit D. The next process

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and impact evaluation report is scheduled for completion in fourth quarter of 2016 with activities beginning in 2016.

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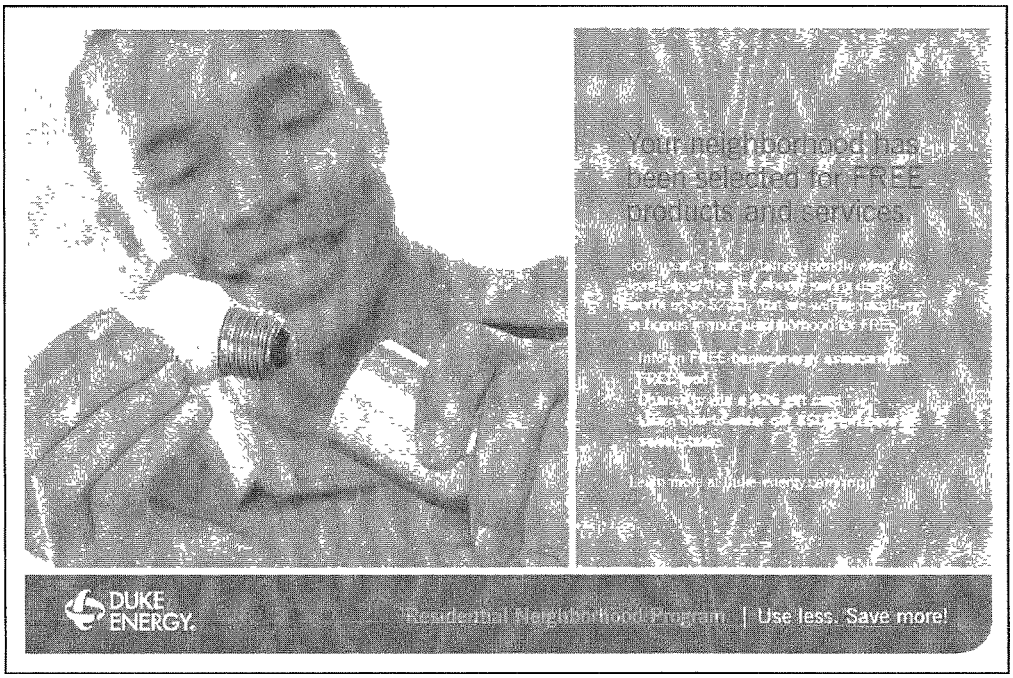
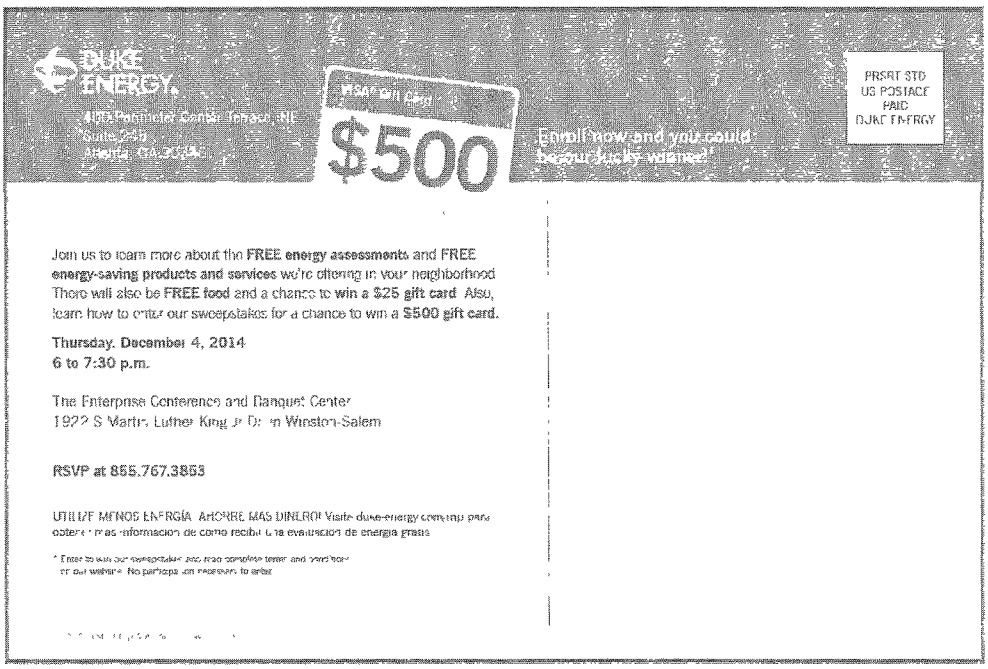
Income-Qualified Energy Efficiency and Weatherization Assistance Program

G. Appendix

Event Postcard Front:



Event Postcard Back:



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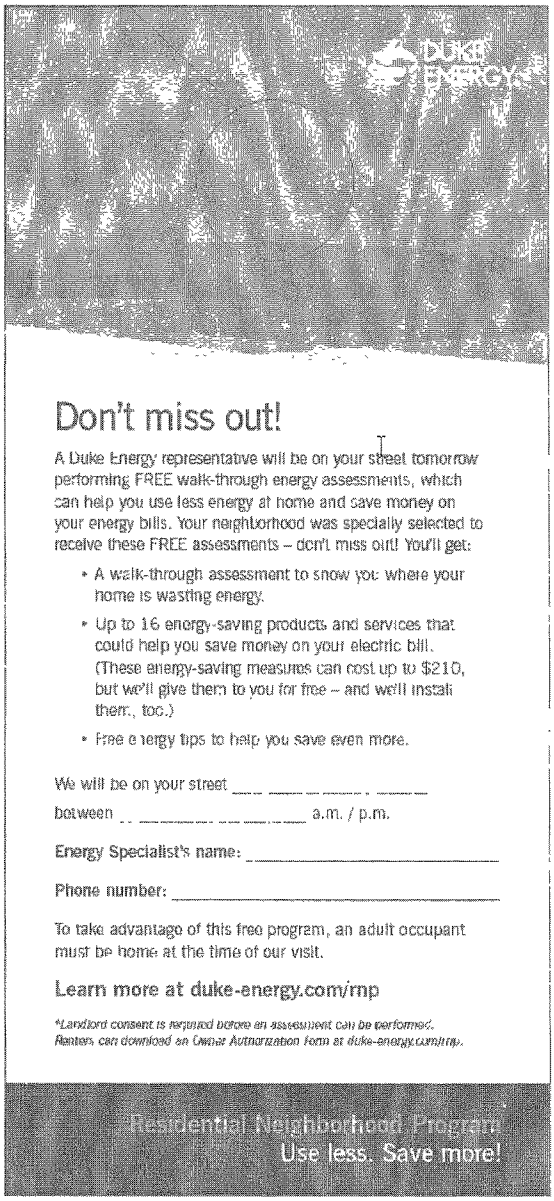
Income-Qualified Energy Efficiency and Weatherization Assistance Program

Don't Miss Out Doorhanger



DUKE ENERGY

Don't miss out!

A Duke Energy representative will be on your street tomorrow performing FREE walk-through energy assessments, which can help you use less energy at home and save money on your energy bills. Your neighborhood was specially selected to receive these FREE assessments – don't miss out! You'll get:

- A walk-through assessment to show you where your home is wasting energy.
- Up to 16 energy-saving products and services that could help you save money on your electric bill. (These energy-saving measures can cost up to $210, but we'll give them to you for free – and we'll install them, too.)
- Free energy tips to help you save even more.

We will be on your street _____

between _____ a.m. / p.m.

Energy Specialist's name: _____

Phone number: _____

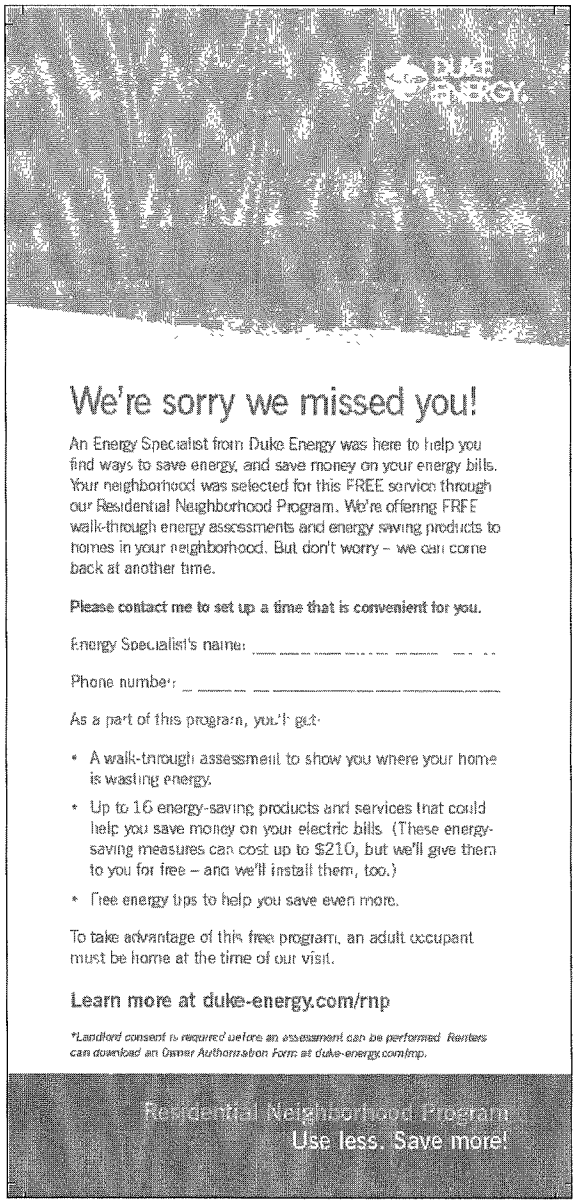
To take advantage of this free program, an adult occupant must be home at the time of our visit.

Learn more at duke-energy.com/rnp

**Landlord consent is required before an assessment can be performed. Renters can download an Owner Authorization Form at duke-energy.com/rnp.*

Residential Neighborhood Program
Use less. Save more!

Sorry We Missed You Doorhanger



DUKE ENERGY

We're sorry we missed you!

An Energy Specialist from Duke Energy was here to help you find ways to save energy, and save money on your energy bills. Your neighborhood was selected for this FREE service through our Residential Neighborhood Program. We're offering FREE walk-through energy assessments and energy saving products to homes in your neighborhood. But don't worry – we can come back at another time.

Please contact me to set up a time that is convenient for you.

Energy Specialist's name: _____

Phone number: _____

As a part of this program, you'll get:

- A walk-through assessment to show you where your home is wasting energy.
- Up to 16 energy-saving products and services that could help you save money on your electric bills. (These energy-saving measures can cost up to $210, but we'll give them to you for free – and we'll install them, too.)
- Free energy tips to help you save even more.

To take advantage of this free program, an adult occupant must be home at the time of our visit.

Learn more at duke-energy.com/rnp

**Landlord consent is required before an assessment can be performed. Renters can download an Owner Authorization Form at duke-energy.com/rnp.*

Residential Neighborhood Program
Use less. Save more!

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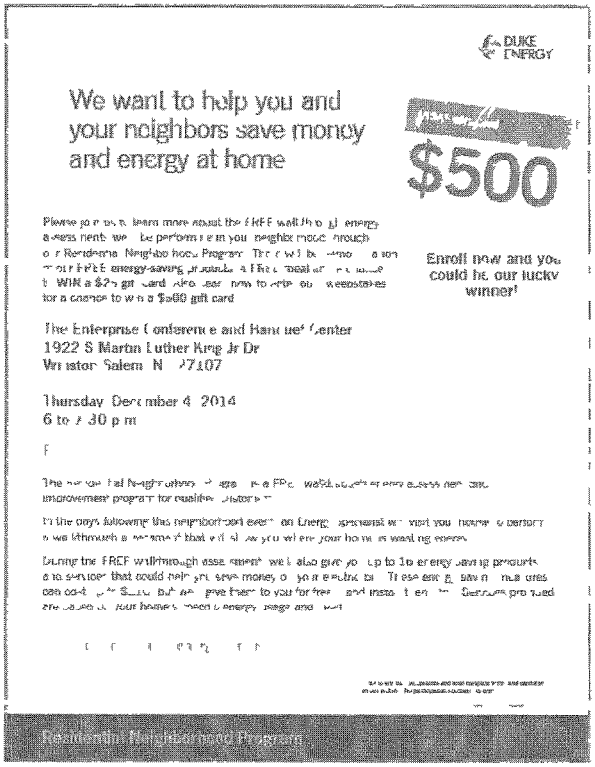
Income-Qualified Energy Efficiency and Weatherization Assistance Program

Event Flyer

Front of Flyer



DUKE ENERGY

We want to help you and your neighbors save money and energy at home

$500

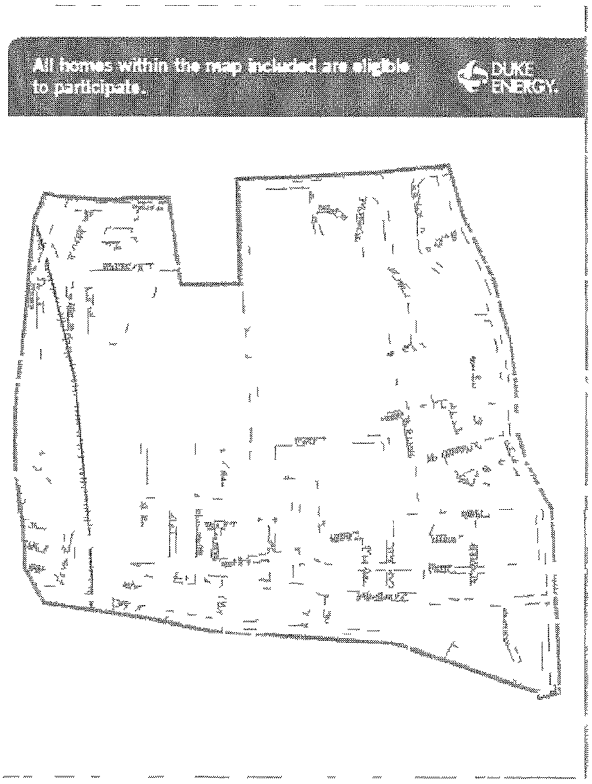
Enroll now and you could be our lucky winner!

The Enterprise Conference and Banquet Center
1922 S Martin Luther King Jr Dr
Winston Salem N 27107

Thursday December 4 2014
6 to 7 30 p m

Revitalization Neighborhood Program

Back of Flyer



Multi-Family Energy Efficiency Program

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A. Description

The Multi-Family Energy Efficiency program ("Program") provides energy efficient lighting and water measures to reduce energy usage in eligible multi-family properties. The Program allows Duke Energy Carolinas, LLC (the "Company") to utilize an alternative delivery channel which targets multi-family apartment complexes. The measures are installed in permanent fixtures by Franklin Energy, the program administrator or the property management staff. The program administrator manages the distribution of measures and partners with property managers in the Company's service territory to enroll multi-family properties.

The Program helps property managers upgrade lighting with energy efficient 13 watt CFLs and also saves energy by offering water measures such as bath and kitchen faucet aerators, water saving showerheads and pipe wrap. The water measures are available to eligible customers with electric water heating. These measures assist with reducing maintenance costs while improving tenant satisfaction by lowering energy bills.

The Program offers a direct install ("DI") option service by Franklin Energy. However, property managers still have the option for their property maintenance crews to complete the installations. The Program has 132 properties enrolled in the Program of which only one had their maintenance crews install the measures.

The lighting measures and water measures are installed during scheduled direct install visits by Franklin Energy crews or routine maintenance visits by property personnel. In the case of direct installs, crews carry tablets to keep track of what is installed in each apartment. In the case of DIY installations, the property maintenance crew tracks the number of measures installed and reports them back to Franklin Energy. Franklin Energy then validates this information and submits the results to the Company.

After installations are completed, Quality Assurance ("QA") inspections are conducted on 20 percent of properties that completed installations in a given month. The QA inspections are conducted by an independent third party.

Audience

The target audience is property managers who have properties that consist of four or more units and are served on an individually metered residential rate schedule. In order to receive water measures, apartments must have electric water heating.

Properties that have already been served by the Property Manager CFL program are only eligible for water measures.

B &C. Impacts, Participants and Expenses

Multi-Family Energy Efficiency[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$5.5	$5.6	102%
Program Cost	$2.7	$1.4	54%
MW	0.9	1.0	116%
MWH	9,813.1	11,588.9	118%
Units	145,151	162,241	112%

1) Values are reflected at the system level.
2) Numbers rounded.

Multi-Family Energy Efficiency Program

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D. Qualitative Analysis

Highlights

The Program enrolled 132 properties in 2014 and accounting over 19,000 units. The Program installed 112% of the overall participation in comparison to the as filed participation. Lighting measures reflect 48% of the participation and water measures reflect 52% of the participation. During the 2014 calendar year, Franklin Energy identified opportunities to install additional lighting measures in larger apartments. The Program adopted a tier structure to determine the number of lighting measures installed in apartments. Franklin Energy may install up to 12 bulbs in a one bedroom apartment, up to 15 bulbs in a two bedroom apartment and up to 18 bulbs in a three bedroom apartment.

Potential Change

A potential program currently being evaluated revolves around the current kitchen aerator offering. Through customer feedback via customer satisfaction surveys and QA visits, there appears to be a desire for a higher gallons per minute offering. This is currently under review by program management.

E. Marketing Strategy

With the program officially launching in March, Franklin Energy conducted an outbound call campaign to solicit initial interest in the program from property managers in the Company's service territory. On-site visits by appointment were also used as a way to attract properties to participate in the Program.

In addition to proactively marketing the Program using these tactics, a Multi-Family Energy Efficiency promo and public website landing were developed for property managers to learn more about the Program. The Program brochure and a frequently asked question sheet are available for download. Once enrolled, Franklin Energy provides property managers with a variety of marketing tools to create awareness of the Program to their tenants. The tools include Program posters to display in common areas and letters for tenants focused at educating them about measures being installed and when the installation will occur. In addition, tenants are provided an educational leave-behind brochure when the installation is complete. This provides additional details on the installed measures as well as tear-off customer satisfaction survey to fill out and mail back to the Company to provide valuable Program feedback.

Another way a property manager may learn more about this Program is through the MyDuke Portal, an online tool, when they login to pay the bills of vacant units at their property. The MyDuke Portal presents a promo that directs the user to the Program website for more information.

F. Evaluation, Measurement and Verification

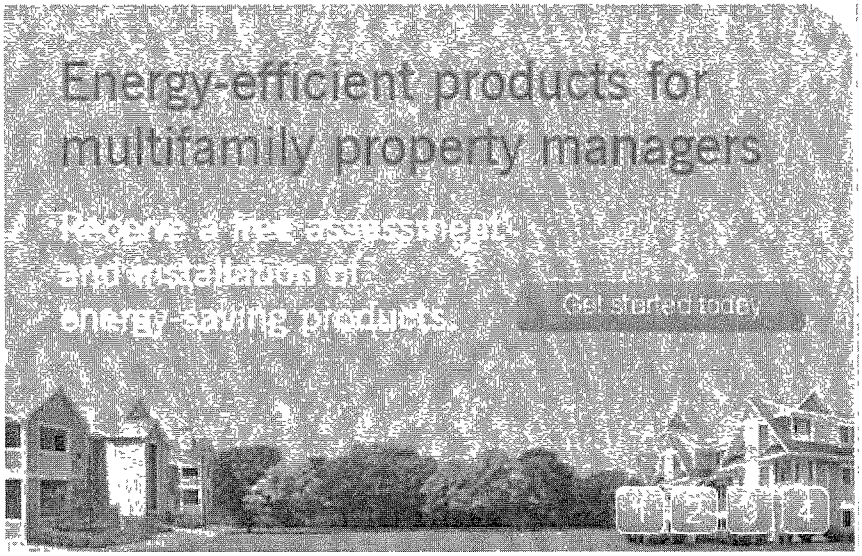
Currently, evaluation work is underway on the water measures in the Program, with a report scheduled to be completed in fourth quarter of 2015.

Samples of participants are selected for the process and impact studies. For the impact evaluation, the evaluator plans to collect data from participants to be used in engineering-based estimation. Participant surveys will also collect information needed to estimate net impacts and for the process evaluation.

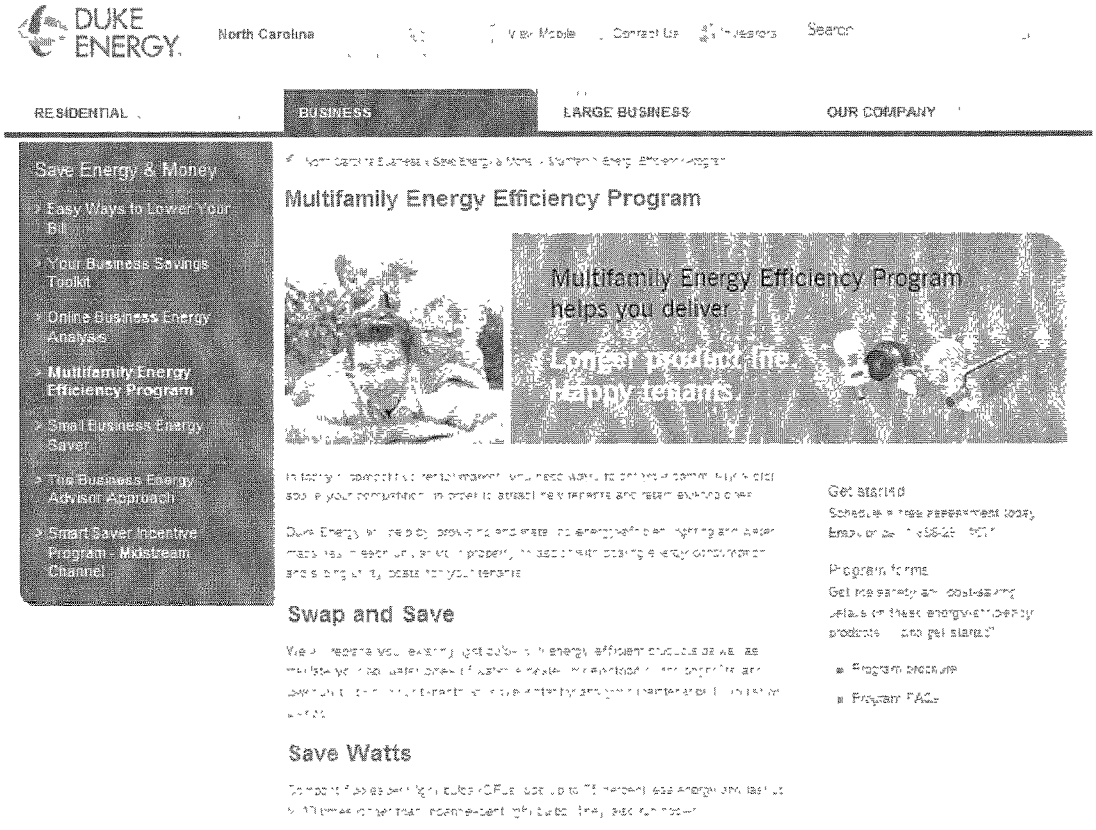
Multi-Family Energy Efficiency Program

G. Appendix

State Landing Page Promotion



Program Web Page



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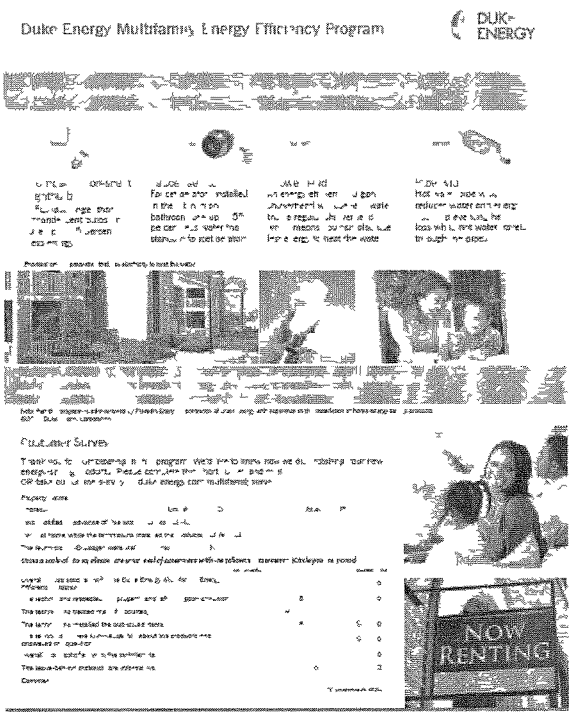
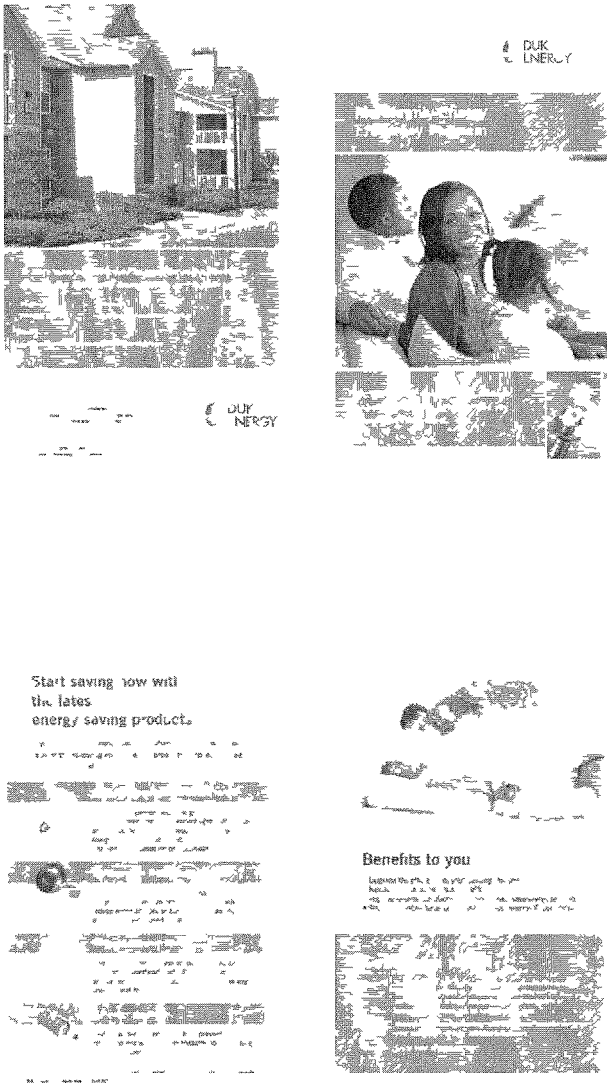
Multi-Family Energy Efficiency Program

Tenant Leave-Behind



Program Brochure



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My Home Energy Report

A. Description

The My Home Energy Report ("MyHER" or the "Program"), is a periodic comparative usage report that compares a customer's energy use to similar residences in the same geographical area based upon the age, size and heating source of the home. Energy saving recommendations are included in the report to encourage energy saving behavior.

The reports are distributed up to 12 times per year (delivery may be interrupted during the off-peak energy usage months in the fall and spring). The report delivers energy savings by encouraging customers to alter their energy use. Customer's usage is compared to the average home (top 50 percent) in their area as well as the efficient home (top 25 percent). Suggested energy efficiency improvements, given the usage profile for that home, are also provided. In addition, measure-specific offers, rebates or audit follow-ups from other Company offered programs are offered to customers, based on the customer's energy profile.

Audience

Target customers reside in individually-metered, single-family residences with an active account and concurrent service from Duke Energy Carolinas, LLC (the "Company").

B & C. Impacts, Participants and Expenses

My Home Energy Report[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	**$12.2**	**$12.2**	**100%**
Program Cost	**$8.5**	**$8.3**	**97%**
MW	**35.2**	**38.6**	**110%**
MWH[2]	**149,783.5**	**142,881.7**	**95%**
Units	**668,314**	**728,626**	**109%**

1) Values are reflected at the system level.
2) Numbers rounded.

D. Qualitative Analysis

As customers receive subsequent reports, their engagement increases as they learn more about their specific energy use and how they compare to their peer group. The report then provides customers tools to reduce their usage in the form of targeted energy efficiency tips that provide customers with actionable ideas to help them become more efficient. Program participants are encouraged to contact the Company with their questions, comments and report corrections. Report corrections continue to generate the largest number of inquiries. Customers wishing to be removed from the Program represent less than one percent of Program participants.

Highlights

The Company filed notification[1] on under the Flexibility Guidelines with the North Carolina Utilities Commission to add an interactive/electronic report and expanded the MyHER to approximately 325,000 additional customers that are eligible to participate in the Program. This expansion started in January 2015.

[1] The notification was filed on November 7, 2014 in Docket No. E-7, Sub 1032.

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My Home Energy Report

Potential Changes

The Company has developed an interactive online portal which allows customers to further engage and learn more about their energy use and opportunities to reduce their usage. Customers will be able to set goals, track their progress to goal, interact with calculators to assess the value of changing their behavior (i.e. turn thermostat up two degrees) and receive more targeted tips. This portal will be available to customers by the end of first quarter of 2015.

E. Marketing Strategy

Marketing for the Program consists of proactive communication through distribution of reports supported by a program website featuring additional information on the reports, Frequently Asked Questions ("FAQs") and contact resources. The online component once live will be marketed in the printed report.

F. Evaluation, Measurement and Verification

The impact and process evaluation results for the Program is included the Rider 7 filing as Ham Exhibit A. The process evaluation included interviews with program management and customer participants.

The impact evaluation consisted of an analysis of consumption data for treatment group and control group customers. The per-unit impacts reported in the evaluation are 184 kWh net savings.

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Non-Residential Smart $aver Prescriptive

A. Description

The Non-Residential Smart $aver® Prescriptive Program ("Program") provides incentives to Duke Energy Carolinas, LLC's (the "Company's") commercial and industrial customers to install high efficiency equipment in applications involving new construction and retrofits and to replace failed equipment. Incentives are provided based on the Company's cost effectiveness modeling to assure cost effectiveness over the life of the measure.

Commercial and industrial customers can have significant energy consumption but may lack knowledge and understanding of the benefits of high efficiency alternatives. The Program provides financial incentives to help reduce the cost differential between standard and high efficiency equipment, offer a quicker return on investment, save money on customers' utility bills that can be reinvested in their business, and foster a cleaner environment. In addition, the Program provides market demand where the dealers and distributors (or market providers) will stock and provide these high efficiency alternatives as they see increased demand for the products. Higher demand can result in lower prices.

The Program promotes prescriptive incentives for the following technologies – lighting, HVAC, pumps, variable frequency drives, food services and process equipment. Equipment and incentives are predefined based on current market assumptions and engineering analysis. The eligible measures, incentives and requirements for both equipment and customer eligibility are listed in the applications posted on the Company's Business and Large Business websites for each technology type.

Beginning in March 2014, the Company developed an internal data processing, mining, tracking and reporting tool in order to gain efficiencies in program implementation and to rely less on a third party vendor for data. This tool was implemented in December of 2014. Ecova remains engaged as a staffing resource for processing applications, validating requirements and as an outreach channel for programs.

Audience

All of the Company's non-residential opt-in customers billed on an eligible Duke Energy Carolinas rate schedule

B & C. Impacts, Participants and Expenses[1]

Non Residential Smart Saver Prescriptive

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	**$43.6**	**$51.9**	**119%**
Program Cost	**$9.6**	**$8.4**	**88%**
MW	**12.9**	**14.7**	**114%**
MWH	**70,435.3**	**84,594.6**	**120%**
Units	**277,985**	**1,230,830**	**443%**

1) Values are reflected at the system level.
2) Numbers rounded.

D. Qualitative Analysis

Highlights

Smart $aver Prescriptive midstream delivery channel was launched in 2014, providing instant Smart $aver Prescriptive incentives through participating distributors. The program management team plans to expand the current lighting and food service participants, and to begin phasing in HVAC distributors within the next year.

The Program administrator identified dedicated resources to build and maintain relationships with trade allies. Trade ally buy-in has proven to be the most effective way to promote the Program to the Company's

[1] The information reflects results for the Non-Residential Smart $aver Prescriptive program in aggregate. Reference the Appendix for results by technology.

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Non-Residential Smart $aver Prescriptive

business customers. The Smart $aver outreach team builds and maintains relationships with trade allies associated with the technologies in and around the Company's service territory. Existing relationships continue to be cultivated while recruitment of new trade allies also remains a focus. The name and contact information for each trade ally company appears on the trade ally search tool located on the Program's website. This tool was designed to help customers, who are not aware of a local trade ally, locate a trade ally in their area who can serve their needs. The tool has been revised to incorporate enhanced search criteria functionality. The Company continues to look for ways to engage the trade allies in promotion of the Program as well as more effective targeting of trade allies based on market opportunities.

The Online Portal application submittal is projected to launch in the second quarter of 2015. The tool provides the functionality for customers and trade allies to register and establish online profiles for Energy Efficiency projects. The Online Portal will allow participants to apply for incentives, save their progress and track projects throughout the submission process.

The Company offers a co-marketing trade ally campaign to encourage trade allies to include Smart $aver program messaging and information in their marketing. If trade ally marketing efforts are approved by the Duke Energy program managers, the Company will pay up to 50% of the marketing cost with a maximum of $2,000. To date, we have approved five applications for marketing items including brochures, lunch and learns, and large events.

The Company launched the Duke Energy Online Savings Store ("Store") via the web. The Program has achieved increased participation in 2014 with lighting offered via the Store. This channel will continue to be utilized to drive interest in advanced technologies and other low cost energy efficiency measures

The Company supports several channels to offer instant prescriptive incentives that reduce the price of energy efficient products at the time of purchase. Channels may include the online Store, customer purchases made through a distributor, and other channels which will increase participation in the program. The incentives offered through these channels will be consistent with current program incentive levels.

Issues

Throughout 2014, participation for lighting technology exceeded as filed participation. However, the Program includes measures, such as process equipment, with little or no participation. The Company continues to work with outside consultants and internal resources to develop strategies to understand equipment supply and value chains and increase awareness of these measures going forward. Additionally, evaluations of alternative HVAC incentive designs geared to drive early equipment replacements continue.

Potential Changes

Standards continue to change and new more efficient technologies continue to emerge in the market. The Company will continue evaluating the opportunity to add measures to the approved Program that provide incentives for a broader suite of energy efficient products. Utilizing the DSMTracker tool, an internal data base and processing tool, will provide a deeper understanding of market needs and allow for multiple directions in reaching additional market segments and customers. Analyzing this data provides a cleaner understanding of customer participation which will help in development of additional programs and measure offerings. In 2014, new lighting, HVAC, and Foodservice measures were added to the Prescriptive portfolio. Work continues in 2015 with CleaRESult to review the current measures, incentive levels, requirements and technology offerings. Duke Energy plans to update the portfolio with the findings of the review in 2015.

E. Marketing Strategy

Non-residential customers are informed of programs via targeted marketing material and communications. Information about incentives is also distributed to trade allies, who in turn sell equipment and services to all sizes of nonresidential customers. Large business or assigned accounts are targeted primarily through assigned Company account managers. Program managers for this Program believe engagement with small to medium size customer will continue to increase. In 2014, the Company added additional internal roles to focus on increasing small to medium business program participation. Specifically, the Company added five business energy advisors to the Carolinas area to perform outreach to unassigned small and medium business customers. The business energy advisors follow up on customer leads to assist with program questions and

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Non-Residential Smart $aver Prescriptive

steer customers to the trade ally search tool who are not already working with a trade ally. In addition, the business energy advisors are contacting customers with revenue between $60,000 and $250,000 to promote the Smart $aver programs.

The internal marketing channel is comprised of assigned Large Business Account Managers, Segment Managers and Local Government and Community Relations who all identify potential opportunities as well as distribute program collateral and informational material to customers and trade allies. In addition, the Economic and Business Development groups also provide a channel to customers who are new to the service territory.

In February 2014, regional seminars were held throughout the Company's service territory to educate trade allies on new measures that were added to the Program. The seminars were well-received and drew a large number of attendees.

In September 2014, we held regional two-day energy efficiency training for trade allies. The training provided information about the Program as well as practical ways to promote and sell energy efficiency to customers.

F. Evaluation, Measurement and Verification

Currently, evaluation work is underway on measures in all the Smart $aver prescriptive technologies, with reports scheduled for lighting to be completed in the second quarter of 2016 and other technologies to be completed in the first quarter of 2016.

Samples of participants are selected for the process and impact studies. For the impact evaluation, some blend of selective monitoring and site visits are being performed at a sample of facilities, with engineering-based estimation and participant billing analysis to be determined by the evaluator. Participant surveys are being conducted to collect information needed to estimate net impacts and for the process evaluation.

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Non-Residential Smart $aver Prescriptive

G. Appendix

Non Residential Smart Saver Energy Efficient Food Service Products[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$0.5	$1.5	279%
Program Cost	$0.1	$0.2	148%
MW	0.1	0.2	244%
MWH	1,066.4	2,341.0	220%
Units	679	2,325	342%

1) Values are reflected at the system level.
2) Numbers rounded.

Non Residential Smart Saver Energy Efficient HVAC Products[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$8.7	$5.2	60%
Program Cost	$1.4	$0.8	58%
MW	2.3	1.3	55%
MWH	5,934.4	4,669.7	79%
Units	53,118	925,410	1742%

1) Values are reflected at the system level.
2) Numbers rounded.

Non Residential Smart Saver Energy Efficient Lighting Products[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$31.2	$40.9	131%
Program Cost	$6.9	$6.7	97%
MW	9.7	12.3	126%
MWH	54,688.9	70,310.8	129%
Units	212,753	295,023	139%

1) Values are reflected at the system level.
2) Numbers rounded.

Non Residential Energy Efficient Pumps and Drives Products[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$2.3	$3.6	157%
Program Cost	$0.7	$0.6	78%
MW	0.7	0.8	114%
MWH	5,698.0	6,487.1	114%
Units	5,331	5,258	99%

1) Values are reflected at the system level.
2) Numbers rounded.

Non Residential Energy Efficient ITEE[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$0.8	$0.0	4%
Program Cost	$0.3	$0.0	8%
MW	0.1	0.0	19%
MWH	2,970.7	124.2	4%
Units	5,726	1,364	24%

1) Values are reflected at the system level.
2) Numbers rounded.

Non-Residential Smart $aver Prescriptive

Non Residential Energy Efficient Process Equipment Products[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$0.1	$0.7	1129%
Program Cost	$0.0	$0.1	455%
MW	0.0	0.2	1033%
MWH	76.8	661.9	862%
Units	378	1,450	384%

1) Values are reflected at the system level.

2) Numbers rounded.

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Non-Residential Smart $aver® Custom Assessment

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A. Description

Duke Energy Carolinas, LLC's (the "Company's") Non-Residential Smart $aver® Custom Assessment (the "Program") offers financial assistance to qualifying commercial, industrial, and institutional customers to help fund an energy assessment designed to identify the overall energy efficiency of a building(s) or system and to provide a list of suggested capital measures that will reduce energy costs with the intent of also helping customers to utilize the Non-Residential Smart $aver® Custom Program. The deliverable of the Program is a detailed energy report that includes the above as well as the technical data needed for the Non-Residential Smart $aver® Custom Program and to provide assistance with the Non-Residential Smart $aver® Custom Application. All kWh and kW savings identified from measures implemented as a result of the pre-qualified assessments are solely counted to the Program.

The intent of the Program is to encourage the implementation of energy efficiency projects that would not otherwise be completed without the Company's technical and financial assistance. The Program's application requires pre-qualification for eligibility. All assessments are performed by professional engineering firms that have been pre-selected and contracted by the Company. The current engineering firms include: Building Intelligence Group, LLC, CB&I, Inc., ThermalTech Engineering, Inc., and Mazzetti. Each offers a diversified set of skills that allow all qualifying commercial, industrial, and institutional customers to be supported.

Audience

Pre-qualified non-residential electric customers, except those that choose to opt-out of the Program, are eligible.

B & C. Impacts, Participants and Expenses

Non Residential Smart Saver Custom Technical Assessments[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	**$8.2**	**$6.9**	**84%**
Program Cost	**$3.7**	**$1.5**	**40%**
MW	**1.9**	**1.5**	**79%**
MWH	**16,694.3**	**9,128.2**	**55%**
Units	**13,526**	**75**	**1%**

1) Values are reflected at the system level.
2) Numbers rounded.

D. Qualitative Analysis

Highlights

Customers continue to show interest in the Program. In 2014, 45 new customers expressed interest in the Program of which 27 have completed assessments or are in process of completing assessments. One-third of the participants did not proceed to implement measures after the completion of the assessment. The main reasons for incompletion are lack of capital available within the business or the energy efficiency measures identified do not meet the internal criteria needed for a capital project. Over 9.7 million kWh and 1,571 kW in energy savings were achieved through the Program in 2014. On average, the portion of the assessment subsidized by the Company exceeds $10,000 while the kWh reduction exceeds 500,000 per customer.

Issues

Prior to 2014, the Program had been considered too diversified with many contracted vendors, inconsistent deliverables, and variable pricing. A vendor Request for Proposal ("RFP") was launched at

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the end of 2013. Review and selection of the aforementioned four vendors was completed in second quarter of Q2 2014 in order to provide the Program the stability that was needed. Customers now experience a consistent pricing structure, process, support, and deliverable.

Even with the consolidation of the engineering firms, the Program supports all market segments, building types, and various industry specific systems (i.e. compressed air systems) while continuing to meet each customer's specific needs and individual building characteristics.

E. Marketing Strategy

The marketing strategy for the Program is to work with those customers that need technical and financial assistance as a companion to their internal resources. Given the facility-wide approach, many of the energy savings opportunities are complex and interactive in nature which fits well with the end-to-end involvement utilized in the Program. Typical customer marketing activity involves direct marketing from assigned Account Managers, electronic postcards, information attained through the Company's website, and direct customer inquiries.

F. Evaluation Measurement and Verification

An evaluation report for Smart $aver custom assessment measures is scheduled to be completed in second quarter of 2017.

Samples of participants are selected for the process and impact studies. For the impact evaluation, some blend of selective monitoring and site visits are being performed at a sample of facilities, with engineering-based estimation and participant billing analysis to be determined by the evaluator. Evaluation analysis may include identification of spillover impacts from the process of engaging customers in the energy assessment. Participant surveys are planned to collect information needed to estimate net impacts and for the process evaluation.

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Non-Residential Smart $aver® Custom

A. Description

Duke Energy Carolinas, LLC's (the "Company's") Non-Residential Smart $aver® Custom Incentives (the "Program") offers financial assistance to qualifying commercial, industrial and institutional customers (that have not opted-out) to enhance their ability to adopt and install cost-effective electrical energy efficiency projects.

The Program is designed to meet the needs of the Company's customers with electrical energy saving projects involving more complicated or alternative technologies, or those measures not covered by the Non-Residential Smart $aver Prescriptive Program. The intent of the Program is to encourage the implementation of energy efficiency projects that would not otherwise be completed without the Company's technical or financial assistance.

The Program's application is for projects that are not addressed by the applications for the Non-Residential Smart $aver Prescriptive Program. Unlike the Non-Residential Smart $aver Prescriptive Program, the Program requires pre-approval prior to the project implementation. Proposed energy efficiency measures may be eligible for customer incentives if they clearly reduce electrical consumption and/or demand.

The two approaches for applying for incentives for this Program are Classic Custom and Custom-to-Go. The difference between the two approaches focuses on the method by which energy savings are calculated. The documents required as part of the application process vary slightly.

Currently the applications forms listed below are located on the Company's website under the Smart $aver® Incentives (Business and Large Business tabs).

- Custom Application – Administrative Information
- Energy Savings Calculations & Basis
    - Classic Custom approach (> 700,000 kWh <u>or</u> no Applicable Custom-to-Go calculator)
        - Variable Frequency Drives
        - Energy Management Systems
        - Compressed Air
        - Lighting
        - General
    - Custom to Go Calculators (< 700,000 kWh <u>and</u> Applicable Custom-to-Go Calculator)
        - Energy Management Systems

The Company contracts with Ecova to perform the administrative review of applications and to provide training and technical support to our trade ally network. The engineering firm AESC performs the technical review of custom applications. All other analysis is performed internally at the Company.

Audience

All of the Company's non-residential electric accounts billed on eligible rate schedules, except those that choose to opt-out of the Program, are eligible.

B & C. Impacts, Participants and Expenses

Non Residential Smart Saver Custom[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$38.5	$49.9	130%
Program Cost	$8.6	$8.1	95%
MW	8.5	9.4	110%
MWH	74,701.1	78,157.5	105%
Units	60,524	32,451	54%

1) Values are reflected at the system level.
2) Numbers rounded.

Non-Residential Smart $aver® Custom

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D. Qualitative Analysis

Highlights

Customers continue to identify energy efficiency offers eligible under this Program. Program results in 2014 in comparison to as filed for avoided cost and impacts are significantly higher than as filed. An average of 14 new pre-approval applications per month was received in 2014, down from 18 in 2013. Customers are consistently investing in efficiency projects that are not addressed by the prescriptive incentives.

Efforts to educate trade allies and vendors who sell energy efficient equipment have been very successful. In many cases, vendors will submit the paperwork for the customer which eliminates a barrier for customers that do not have the resources to devote to completing the application.

Issues

The Program application process is considered burdensome by some customers due to the technical review required for all projects applying for a custom incentive. The technical review often requires customers (or their vendor) to quantify the projected energy savings from the proposed project. This can be a lengthy process that may require some level of engineering expertise. Where required, this requirement will continue, thus ensuring that incentives are being paid for cost-effective verifiable efficiency gains. Those technologies that seem to be a good fit for the Non-Residential Smart $aver Prescriptive Program will be recommended for addition to the prescriptive application. The more measures offered through the Non-Residential Smart $aver Prescriptive Program, the fewer burdens there are on the customer that prevents participation in the Smart $aver program.

Potential Changes

In 2014, the Company launched a user-friendly energy savings calculation tool for energy management systems ("EMS") which is intended to streamline the application process and increase participation for small to medium-sized energy efficiency projects. For 2015, the Company is adding additional calculators to this suite, including HVAC, Lighting, VFDs, and Compressed Air. The entire suite is called "Custom-to-Go". The Smart $aver Custom webpage has been updated to accommodate these additions. Additionally, the Custom Program is evaluating the application of a "flat rate" incentive rate value for Custom applications.

Furthermore, the Custom program continues to evaluate additional improvements to enhance participation and program efficiency.

E. Marketing Strategy

The marketing strategy for the Program is the same as the Non-Residential Smart $aver Prescriptive Program. The strategy is to promote prescriptive incentives, which show pre-approved incentive amounts that get customers interested in a project and are designed for a high volume of applications. Then, if a customer's project does not fall under prescriptive incentives, the custom application is there to offer an alternative. The program is promoted through but not limited to the following:

- Trade ally outreach
- Account Managers
- Company website

F. Evaluation, Measurement and Verification

Currently, evaluation work is underway on Smart $aver custom measures, with a report scheduled to be completed in second quarter of 2017. Samples of participants are selected for the process and impact studies. For the impact evaluation, some blend of selective monitoring and site visits are being performed

Non-Residential Smart $aver® Custom

at a sample of facilities, with engineering-based estimation and participant billing analysis to be determined by the evaluator. Participant surveys are being conducted to collect information needed to estimate net impacts and for the process evaluation.

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Power Manager®

A. Description

Power Manager® ("Program") is a demand response program that cycles residential central air conditioning usage during summer peak demand conditions. Duke Energy Carolinas, LLC (the "Company") installs a load cycling device to the outdoor unit of a qualifying air conditioner. This enables the customer's air conditioner to be cycled off and on when the Company initiates a Power Manager event. In addition, the Company can perform cycling or full shed interruption of participating customers' air conditioning systems at any time due to capacity problems, including generation, transmission or distribution capacity problems or reactive power problems.

Program participants receive a financial incentive as a bill credit in the amount of $8 per month from July through October ($32 annually).

The cycling of the customer's air-conditioning system has shown that there is no adverse impact on the operation of the air-conditioning system. The load control device has built-in safe guards to prevent the "short cycling" of the air-conditioning system. Cycling simply reduces the amount of time the air-conditioning system runs, which is no different from what it does on milder days. Additionally, the indoor fan will continue to run and circulate air during the cycling event.

Audience

The Program is available to the Company's residential customers residing in owner-occupied, single-family residences with a qualifying outdoor central air-conditioning unit.

B & C. Impacts, Participants and Expenses

PowerManager[1]			
$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$51.8	$58.4	113%
Program Cost	$14.6	$15.7	107%
MW[2]	354.3	403.4	114%
MWH	N/A	N/A	-
Units[3]	333,524	379,812	114%

Notes on Tables:
1) Values are reflected at the system level.
2) MW capability derived from the average reduction from cycling of participating air conditioners during the June - September control season.
3) Units included in filing represented average KW at the meter during the June - September control season, rather than number of switches. The average switch count for that same period was 183,310.
4) Numbers rounded.

D. Qualitative Analysis

Power Manager Events

During the summer of 2014, the Company called six Power Manager events. The first two of these were conducted in early June to test various capabilities of the Power Manager hardware, communications, and software systems. The remaining four events were initiated to help avoid the cost of bringing additional capacity online.

Power Manager Device Replacement

In 2014, over 60,000 older Power Manager devices have been removed from participating customers' homes as part of the replacement effort. The vast majority of these were replaced with new Power Manager devices. Those not replaced were the result of customers' requests to be taken off the program. The device replacement project will be completed prior to the 2015 Power Manager event season.

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Power Manager®

E. Marketing Strategy

In 2014, the Company increased marketing for Power Manager, while continuing to focus its resources on replacing/removing older Power Manager devices.

At the of the 2014 calendar year, over 9,000 new air conditioners had been added to the Power Manager program. These additions are the result of outbound telephone marketing and two email offers. The telephone marketing has been very successful and represents 90% of the new participants. This continues to be a very cost effective marketing channel with a low acquisition cost and produces more enrollments per contact than previously used channels.

Program information and enrollment form are available to customers on the Power Manager website located at http://www.duke-energy.com/north-carolina/savings/power-manager.asp.

F. Evaluation, Measurement and Verification

The Impact and Process evaluations for Power Manager program are included in the Rider 7 as Ham Exhibit G and Ham Exhibit H. Impact and Process evaluation results for the 2014 season will be available and presented in 2015.

2013 EM&V Highlights

- There were seven (7) Power Manager events and one (1) test event in 2013.
- The switch replacement program that is in effect continues to provide increased capability and quality control measures for Power Manager in DEC.
- Operability rates for switches remains was reported to be above 94% in 2013.
- Power Manager continues to achieve high customer satisfaction ratings with program participants.
- Participants awareness of actual events remains low, while discomfort attributed to Power Manager events does not affect customer perceptions of the program.
- Power Manager continues to provide a significant resource of both economic and emergency capacity for summer months (177.5 MW Cycling and 327.8 MW Full Shed).

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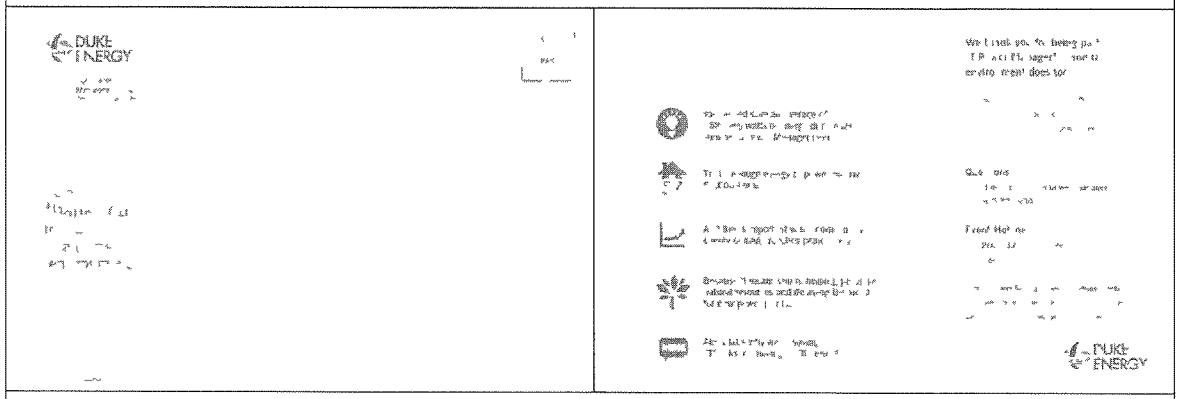
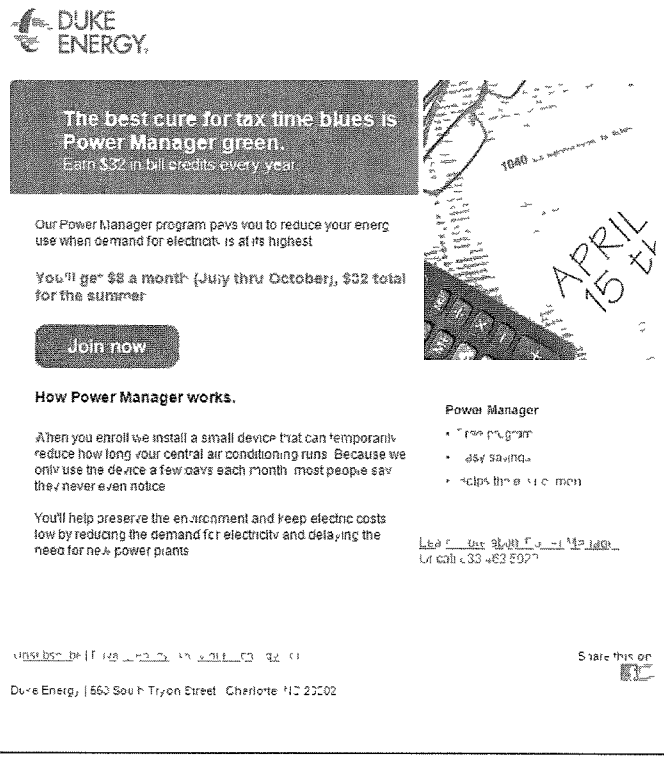
Power Manager®

G. Appendix

Thank You/Reminder Postcard Sent Prior To 2014 Summer Event Season



April 2014 Email



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Power Manager®

October 2014 Email	Device Replacement Postcard
DUKE ENERGY Why is your neighbor smiling? She uses Power Manager® from Duke Energy. She simply lets us cycle her AC s runtime a few days a year when energy demand is at its highest She doesn t even notice when it happens And **we pay her** just for participating Power Manager helps us meet our customers energy needs more efficiently That keeps everyone s rates down and it s good for the environment It s also free! So why not join your energy saving neighbors? Lea Sign up now Or call 888.463 5022 to enroll by phone Power Manager is mak ng a difference 1 157 000 2 Saved 158 3 $32 off the summer electric bills Duke Energy 66 South Tryon Street Charlotte NC 28202	DUKE ENERGY Power Manager®

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PowerShare®

A. Description

PowerShare® ("Program") is a demand response program offered to commercial and industrial customers. The Program is comprised of Mandatory ("PS-M"), Generator ("PS-G"), Voluntary ("PS-V") and CallOption options, and customers can choose from a variety of offers. Under PS-M, PS-G and CallOption, customers receive capacity credits for their willingness to shed load during times of peak system usage. Energy credits are also available for participation (shedding load) during curtailment events. The notice to curtail under these offers can be rather short (15-30 minutes), although every effort is made to provide as much advance notification as possible. Failure to comply during an event will result in penalties.

Audience

The Program is offered to Duke Energy Carolinas, LLC's (the "Company's") non-residential customers who have not opted-out and are able to meet the load shedding requirements.

B & C. Impacts, Participants and Expenses

PowerShare[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$62.8	$55.3	88%
MW[2]	430.9	382.0	89%
MWH	N/A	N/A	N/A
Units[3]	405,646	359,926	89%

Notes on Tables:
1) Values are reflected at the system level.
2) MW capability derived by taking average over specific PowerShare contract periods.
3) Units included in filing represented KW at meter, rather than number of participants. The average participation for 2014 was 187.
4) Numbers rounded.

PowerShare CallOption[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$4.0	$0.0	0%
MW[2]	28.7	0	0%
MWH	N/A	N/A	N/A
Units[3]	27,000	0	0%

Notes on Tables:
1) Values are reflected at the system level.
2) MW capability derived by taking average over specific PowerShare contract periods.
3) Units included in filing represented KW at meter, rather than number of participants. There was no participation in 2014.
4) Numbers rounded.

D. Qualitative Analysis

Highlights

PS-Mandatory and PS-Generator have been well received by customers in both North Carolina and South Carolina. Most customers previously enrolled in Interruptible Power Service ("IS") and Standby Generator ("SG") programs in South Carolina transitioned to PS-M and PS-G, respectively. Program modifications made in response to recently implemented EPA regulations have also led to the transition of many North Carolina SG participants to PS-G.

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PowerShare®

Issues

The Company entered into an agreement with interested parties in 2011 to create a new measure offer for PowerShare® CallOption. This offer would allow for up to 200 hours of "economic curtailments" and pay the customer a $50/kW per year capacity credit. Due to changes in operations, the original interested parties decided not to participate. Duke Energy Carolinas has been unable to generate interest in any of the CallOption offerings since the sole participant transitioned to PS-M in June 2013.

Potential Changes

The Program management team received feedback from customers requesting the ability to provide a different kW capability value for summer and winter peak. The third-party evaluator included this recommendation in the 2013 PowerShare Impact Evaluation report presented to members of the Duke Energy Carolinas Collaborative on December 4, 2014.

Commercial and industrial customers prefer to participate concurrently in PS-M and PS-V rather than CallOption for the opportunity of both emergency and economic dispatch scenarios. Due to little to no participation, the Company is evaluating discontinuing the PowerShare CallOption program.

The Company plans to submit a regulatory filing with the Public Service Commission of South Carolina and North Carolina Utilities Commission to reflect the proposed changes.

E. Marketing Strategy

To date, marketing efforts for the Program have focused on the relationship between the Company's account executives and their assigned customers. As part of their normal contact with customers, the account executives introduce the Program, including any new options/offers, while explaining the value proposition to the customer. Account executives share in-house analytical spreadsheets that show the specific incentives for each offer as applied to the customer's specific load profile as well as collateral to explain the details of all the Program offers.

In consideration of the number of qualifying customers that do not meet the criteria for being assigned to account executives, the Company continues to explore both internal and external marketing opportunities to enhance our outreach and increase program participation.

F. Evaluation, Measurement and Verification

The Impact and Process evaluation for PowerShare for program year 2013 is included the Rider 7 filing as Ham Exhibit I. The Impact and Process evaluation results for the 2014 season will be available and presented in 2015.

<u>2013 EM&V Highlights</u>

- During the winter of 2012/2013, there were no PowerShare events.
- During the summer of 2013, there were no PowerShare events due to the mild weather and low marginal energy prices.
- Effort has been placed on developing tools to help educate smaller customers on incentives, events, and kW calculations. This also includes educating customers about wintertime events such as the Winter 2013/14 'Polar Vortex' event.
- The 2013 Impact and Process Evaluation Report reflects the positive program feedback from customers on marketing, enrollment, and information provided to PowerShare customers.
- Winter 2014 events did provide an opportunity to engage customers and provided valuable feedback regarding communication of events and potential changes to facilitate summer/winter capabilities of customers.

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Small Business Energy Saver

A. Description

The purpose of Duke Energy Carolinas, LLC's (the "Company's" or "DEC") Small Business Energy Saver program (the "Program") is to reduce energy usage through the direct installation of energy efficiency measures within qualifying small non-residential customer facilities. All aspects of the Program are administered by a single Company-authorized vendor. Program measures address major end-uses in lighting, refrigeration, and HVAC applications.

Program participants receive a free, no-obligation energy assessment of their facility followed by a recommendation of energy efficiency measures to be installed in their facility along with the projected energy savings, costs of all materials and installation, and up-front incentive amount from the Company. Upon receiving the results of the energy assessment, if the customer decides to move forward with the proposed energy efficiency project, the customer makes the final determination of which measures will be installed. The energy efficiency measure installation is then scheduled at a convenient time for the customer and the measures are installed by electrical subcontractors of the Company-authorized vendor.

The Program is designed as a pay-for-performance offering, meaning that the Company-authorized vendor administering the Program is only compensated for energy savings produced through the installation of energy efficiency measures.

Audience

The Program is available to existing non-residential customers that are not opted-out of the EE portion of the Company's EE/DSM rider, Rider EE. Program participants must have an average annual demand of 100 kW or less per active account.

B & C. Impacts, Participants and Expenses

Small Business Energy Saver[1]			
$ In millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	N/A	$2.7	-
Program Cost	N/A	$1.0	-
MW	N/A	0.9	-
MWH	N/A	3,807.6	-
Units[3]	N/A	4,023,251	-

1) Values are reflected at the system level.
2) Numbers rounded.
3) Units reflect gross kWh.
4) As filed values not included as program was not included in filing.

D. Qualitative Analysis

Highlights

The Program launched in September of 2014. Lime Energy, who specializes in small business direct install program management, was awarded the contract to administer the Program through a competitive bid process. Lime Energy is the Program administrator for DEC and Duke Energy Progress, LLC ("DEP").

Due in large part to the fact that Lime Energy administered the Program in the DEP territory since 2013, the Program was able to be implemented and become fully operational in DEC relatively quickly and efficiently. Over 200 projects were completed through the Program by the end of 2014 resulting in more than three million kWh saved.

Issues

The majority of issues encountered in 2014 were related to program start-up and the lack of customer awareness about the Program. Customers overwhelmingly responded favorably to the Program once

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Small Business Energy Saver

they learned of and became comfortable with the offer and Program process. However, there were a few customers who were initially skeptical and questioned the Program and Lime Energy's legitimacy as the Company-authorized vendor. The Company expects issues with customer skepticism to significantly decrease as Program marketing and outreach efforts increase in 2015 and beyond.

Potential Changes
With the Program being a new offering in DEC, no changes are expected at this time.

E. Marketing Strategy

The Company will expand and increase the Program marketing efforts in 2015 through various marketing channels that include but are not limited to:

- Direct mail (letters and postcards to qualifying customers)
- Duke Energy Carolinas website
- Community outreach events
- Small Business Group outreach events
- Paid advertising/mass media
- Social media promotions

These marketing efforts are designed to create customer awareness of the Program, to educate customers on energy saving opportunities and to emphasize the convenience of Program participation.

F. Evaluation, Measurement and Verification

The process and impact evaluation report is scheduled for completion in second quarter of 2016 with activities beginning in 2015. There is currently no planned difference in the EM&V plans for the Program in the Duke Energy Carolinas, LLC and Duke Energy Progress, Inc. ("DEP") service territory. Pending the participation ramp-up for the Program in DEC, evaluation of the Program is expected to be combined for DEC and DEP. The allocation of combined EM&V costs is proposed to be based on the projected number of participants in the Small Business Energy Saver Program for each company.

The process evaluation will include interviews with program management, implementation contractors, and customer participants. Customer interviews will include data collection for use in the spillover and free ridership analysis.

The impact evaluation will focus on verifying the key inputs to the engineering algorithms for lighting measures. If participation increases in non-lighting measures, the evaluator may elect to adjust this approach for those measures.

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Smart Energy in Offices

A. Description

The purpose of Duke Energy Carolinas, LLC's (the "Company's) Smart Energy in Offices Program ("Program") is to increase the energy efficiency of program participants. The Program leverages communities to target owners and managers by providing participants with detailed information of the account/building's energy usage, support to launch energy saving campaigns, information showing comparisons between their building's energy performance and others within their community and actionable recommendations to improve their energy performance..

Audience

Non-residential customers with 12 months of usage history with business operations in building with a minimum of 10,000 square feet and 50% of the space is dedicated to office space who meet the Program's eligibility requirements.

B & C. Impacts, Participants and Expenses

Smart Energy in Offices[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	N/A	$2.0	-
Program Cost	N/A	$1.2	-
MW	N/A	3.8	-
MWH	N/A	18,089.1	-
Units[3]	N/A	20,768,337	-

1) Values are reflected at the system level.
2) Numbers rounded.
3) Units reflect square feet.
4) As filed values not included as program was not included in filing.

D. Qualitative Analysis

A key component of the Program is community engagement from the time of enrollment in the Program and on-going throughout the Program. Program participants identify a single point of contact that is responsible for working with the Program management team or the Company selected vendor. This person is responsible for interfacing with Company representatives on all aspects of the Program, including providing assistance to the Company as it relates to coordinating live events, meetings and seminars and assisting with the distribution of written materials. The customer representatives are also responsible for dedicating time/resources and implementing the recommendations and guidance provided by the Company. This person also provides the names and contact information for additional customer champions. The energy champions provide a "grassroots" deployment of energy campaigns to ensure employees are aware and participate in the energy campaigns. In addition, Program participants maintain high levels of engagement with the Company as check-ins are conducted quarterly. The check-in provides the Company and customer an opportunity to discuss campaigns that have been conducted or planned in the near future.

Highlights

The Company received regulatory approval from the Commission to implement the Program in third quarter of 2014.[1] Upon approval, the Program management team scheduled customer meetings with Smart Energy in Now pilot participants and other non-residential customers to educate them on the scope and enhancements of the commercialized program in order to gain their commitment to participate in

[1] The North Carolina Utilities Commission issued an Order in Docket No. E-7, Sub 961 on August 13, 2014 and Public Service Commission of South Carolina issued an Order in Docket No. 2014-253-E- on July 9, 2014 approving the Smart Energy in Offices program.

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Smart Energy in Offices

Smart Energy in Offices. Additionally, a strategy to educate and reach a broader market of qualifying customers was implemented. Smart Energy in Offices was officially launched September 3, 2014.

Potential Changes

There are no potential changes at this time.

E. Marketing Strategy

In 2014, a number of these marketing channels were used including print media, social media, and presentations at public events. Examples include print ads in Building Owners and Managers Association (BOMA) and US Green Building Council (USGBC) Green Gala event publications. There were also print and digital ads in the Charlotte Business Journal and the Charlotte Observer. We have also received numerous invitations from Property Managers to speak to their tenants about the Program. Additionally, we continue to provide tips on how to reduce wasted energy in the office by utilizing our social media channel -- Twitter.

F. Evaluation, Measurement and Verification

The impact evaluation results for the Smart Energy Now Pilot Program is included the Rider 7 filing as Ham Exhibit B. The impact evaluation involved a combination of pre/post billing data analysis and engineering analysis linked to occupant and building operator surveys about what actions were taken and the motivation for those actions. The reported net savings are 6.2 percent of the baseline energy consumption for the program overall, with buildings greater to or equal to 100,000 sq. ft. with 6.4 percent net savings and buildings smaller than 100,000 sq. ft. with 1.1 percent net savings.

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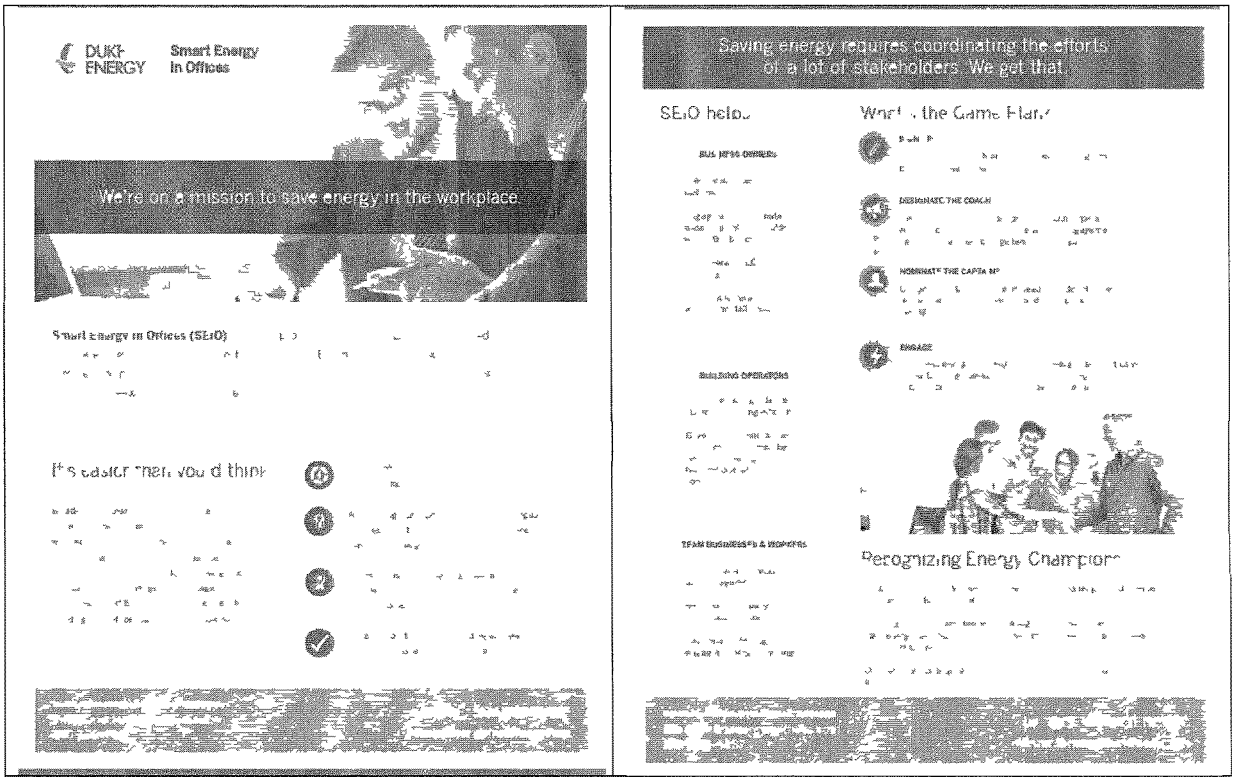
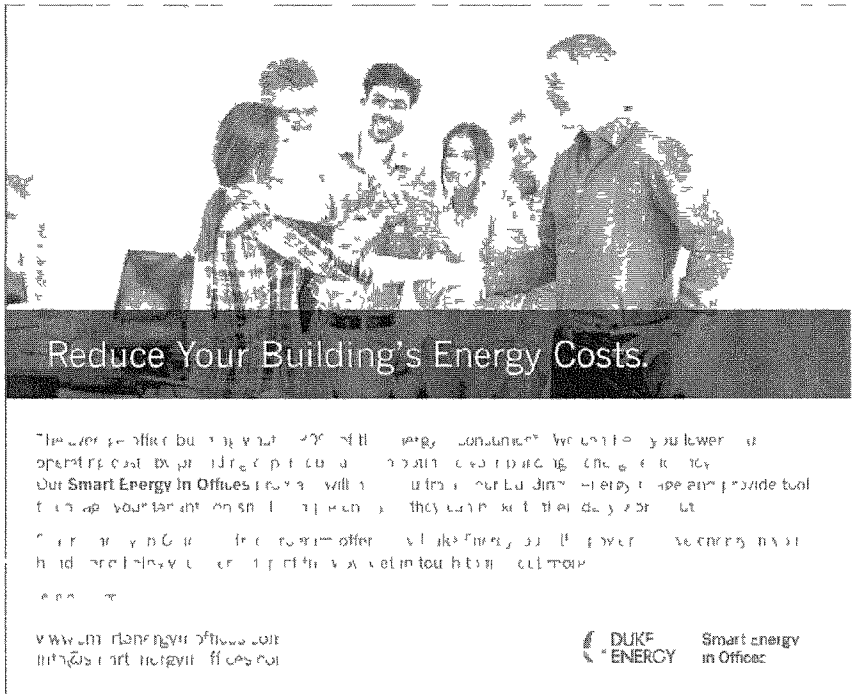
Smart Energy in Offices

G. Appendix





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Executive Summary

A. Description

During the Duke Energy Carolinas Collaborative meeting held in the first quarter of 2015, Duke Energy Carolinas, LLC (the "Company") provided an update on the performance of its energy efficiency and demand side management programs/pilots for Vintage 2014. The Company's product managers prepared reports on each program/pilot describing the offerings and detailing each program's performance. This Executive Summary describes how the Company performed in regards to the energy efficiency and demand side management program/pilot performance on the aggregate during Vintage 2014 in comparison to as filed information. Program-specific details are provided in the individual reports.

Program reports include:

Program	Category	Customer
Non-Residential Smart $aver Prescriptive	EE	Non-residential
Non-Residential Smart $aver Custom	EE	Non-residential
Non-Residential Smart $aver Custom Assessment	EE	Non-residential
Smart Energy in Offices	EE	Non-residential
Small Business Energy Saver	EE	Non-residential
PowerShare	DR	Non-Residential
Energy Assessments	EE	Residential
HVAC Energy Efficiency Program	EE	Residential
Income Qualified Energy Efficiency and Weatherization Assistance	EE	Residential
Energy Efficiency Education Program	EE	Residential
My Home Energy Report	EE	Residential
Appliance Recycling Program	EE	Residential
Energy Efficient Appliances and Devices	EE	Residential
Multi-Family Energy Efficiency	EE	Residential
Power Manager	DSM	Residential

Audience

All retail Duke Energy Carolinas customers who have not opted out.

B &C. Impacts, Participants and Expenses

The tables below include actual results for Vintage 2014 in comparison to as filed data for Vintage 2014. The Company's avoided costs reflect the present value of the avoided costs as determined by the rates approved by the North Carolina Utility Commission (the "Commission" or the "NCUC").

The Company includes the number of units achieved and a percentage comparison to the as filed values. The unit of measure varies by measure as a participant, for example, may be a single CFL bulb, a kW, a household or a square foot. Due to the multiple measures in a given program or programs, units may appear skewed and are not easily comparable.

For Vintage 2014, energy efficiency impacts have primarily been driven by lighting measures for both residential and non-residential customers. This is a result of a higher take-rate for lighting offerings than originally projected.

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Executive Summary

Carolinas System Summary[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$272.5	$324.1	119%
Program Cost	$100.9	$89.7	89%
MW[2]	887.5	879.8	99%
MWH	396,906.5	545,985.7	138%
Units	2,723,317	8,033,868	295%

1) Numbers rounded.
2) As filed MW are annual maximum peak. Coincident peak is tracked for impacts.

Carolinas Conservation Summary[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$153.9	$210.4	137%
Program Cost	$63.1	$58.5	93%
MW[2]	73.7	94.3	128%
MWH	396,906.5	545,985.7	138%
Units	1,957,147	7,294,130	373%

1) Numbers rounded.
2) As filed MW are annual maximum peak. Coincident peak is tracked for impacts.
3) YTD units exclude Small Business Energy Saver and Smart Energy in Offices which were not included in the filing. Units for these programs are per kWh and per square foot.

Carolinas Demand Response Summary[1]

$ in millions, rounded	Vintage 2014 As Filed	Vintage 2014 YTD December 31, 2014	% of Target
NPV of Avoided Cost	$118.6	$113.7	96%
Program Cost	$37.7	$31.2	83%
MW[2]	813.8	785.5	97%
MWH	N/A	N/A	-
Units[3]	766,170	739,738	97%

1) Numbers rounded.
2) MW capability derived by taking the average over the PowerShare and PowerManager contract periods.
3) Units included in filing represented MW at meter, rather than number of participants. YTD value reflects average participation for 2014.
4) Numbers rounded.

D. Qualitative Analysis

The tables above include actual results for Vintage 2014 in comparison to as filed data for Vintage 2014. The Company's avoided costs reflect the present value of the avoided costs as determined by the rates approved by the North Carolina Utility Commission (the "Commission" or the "NCUC").

The Company includes the number of units achieved and a percentage comparison to the as filed values. The unit of measure varies by measure as a participant, for example, may be a single CFL bulb, a kW, a household or a square foot. Due to the multiple measures in a given program or

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Executive Summary

programs, units may appear skewed and are not easily comparable.

For Vintage 2014, energy efficiency impacts have primarily been driven by lighting measures for both residential and non-residential customers. This is a result of a higher take-rate for lighting offerings than originally projected.

Highlights

Energy Efficiency

To date, customer participation has been driven primarily by lighting and assessments programs. These measures provide customers with a relatively low cost efficiency upgrade, with minimal hassle, creating a positive initial energy efficiency experience. The Energy Assessments and Energy Efficient Appliances and Devices programs significantly exceeded as file avoided cost and impacts.

The Non-Residential Smart $aver Custom program has achieved greater than expected participation with lower than projected program cost. The established trade ally network has enabled the Company to minimize acquisition costs by using trade allies as an extended sales force. Providing the trade ally network information on our incentive structure has enabled them to market the incentives to customers.

Demand Side Management (DSM)

The DSM portfolio is comprised of the PowerShare (non-residential) and Power Manager (residential) programs. The avoided cost achievement is marginally below the as filed values. Program costs are low in comparison to achieved avoided cost.

Issues

There have been a number of issues that have negatively impacted Company-specific energy efficiency programs. These programs include Appliance Recycling Program and Income Qualified Energy Efficiency and Weatherization Assistance. Each program update addresses the issues and the Company's plans to overcome them in the future.

Potential Changes

Several programs are reviewing their current processes and are considering potential changes to increase customer adoption. Potential changes are discussed in individual program reports.

E. Marketing Strategy

Located in individual reports.

F. Evaluation, Measurement and Verification

Located in individual program reports.

Barnes Exhibit 7

I/A

Duke Energy Carolinas, LLC
Estimate- January 1, 2016 to December 31, 2016
Docket Number E-7, Sub 1073
Updated Projected Program/Portfolio Cost Effectiveness - Vintage 2016

Program	UCT	TRC	RIM	PCT
Residential Programs				
Appliance Recycling Program	1.32	1.95	0.59	
Energy Education Program	1.76	2.29	0.89	
Energy Efficient Appliances & Devices	3.10	3.43	0.92	6.58
HVAC Energy Efficiency	0.99	0.74	0.79	1.22
Income-Qualified Energy Efficiency & Weatherization Services	0.32	1.16	0.28	
Multi-Family Energy Efficiency	4.26	5.85	1.17	
My Home Energy Report	1.49	1.49	0.67	
Power Manager	4.89	8.86	4.89	
Energy Assessments	2.79	2.93	1.42	
Residential Total	**2.34**	**3.14**	**1.31**	**10.19**
Non-Residential Programs				
Non-Residential Smart $aver Custom Assessment	3.35	1.24	1.40	1.27
Non-Residential Smart $aver Custom	4.53	1.83	1.57	1.77
Non-Residential Smart $aver Food Service Products	3.32	1.09	1.42	1.10
Non-Residential Smart $aver HVAC Products	5.70	2.86	2.82	1.78
Non-Residential Smart $aver Lighting Products	6.61	2.60	1.76	2.25
Non-Residential Smart $aver Pumps & Drives Products	3.37	2.23	1.43	2.35
Non-Residential Smart $aver Information Technology Products	3.21	1.13	1.08	1.35
Non-Residential Smart $aver Process Equipment Product	2.34	2.06	1.33	3.74
Small Business Energy Saver	2.38	1.91	1.20	2.24
Smart Energy in Offices	1.25	1.63	0.79	
PowerShare CallOption [1]				
PowerShare	2.58	20.97	2.58	
Non-Residential Total	**3.31**	**2.46**	**1.61**	**2.19**
Overall Portfolio total	**2.88**	**2.67**	**1.49**	**2.82**

[1] The Vintage 2016 projection does not reflect projected participation or program cost.

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Barnes Exhibit 8

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Duke Energy Carolinas, LLC
Changes to DSM/EE Cost Recovery Vintage 2014 True Up January 1, 2014 - December 31, 2014
Changes from Prior Filing Due to Application of EM&V and Participation
System kWh and kW Impacts Net Free Riders at the Plant
Docket Number E-7, Sub 1073

Residential Programs

Program Name	Filed in Docket E-7, Sub 1032 kWh	Filed in Docket E-7, Sub 1032 kW	Filed in Docket E-7, Sub 1073 kWh	Filed in Docket E-7, Sub 1073 kW	Overall Variance kWh	Overall Variance kW	E-7 Sub 1032 System Participation	E-7 Sub 1073 System Participation	Delta Participation	Variance due to Change in Impacts and Measure Mix kWh	Variance due to Change in Impacts and Measure Mix kW	Variance due to Change in Participation kWh	Variance due to Change in Participation kW	Sum of Variances kWh	Sum of Variances kW
Appliance Recycling Program	16,819,425	3,949	5,100,458	709	(11,718 967)	(3,240)	16,688	9,753	(6,935)	(4,729,351)	(1,599)	(6,989,616)	(1,641)	(11,718,967)	(3,240)
Energy Efficiency Education	5,225,951	518	7,098,145	746	1,872,194	228	24,000	28,316	4,316	932,332	134	939,862	93	1,872,194	228
Energy Efficient Appliances and Devices	27,602,478	2,946	167,039,197	18,424	139,436,719	15,478	715,209	5,069,137	4,353,928	(28,596,963)	(2,454)	168,033,681	17,932	139,436,719	15,478
HVAC Energy Efficiency	8,026,733	3,623	4,526,177	2,509	(3,500,556)	(1,114)	16,153	12,866	(3,287)	(1,867,183)	(376)	(1,633,373)	(737)	(3,500,556)	(1,114)
Income Qualified Energy Efficiency and Weatherization Assistance	10,977,497	2,405	3,374,813	792	(7,602,684)	(1,612)	11,244	9,082	(2,162)	(5,491,737)	(1,150)	(2,110,947)	(462)	(7,602,684)	(1,612)
Multi-Family Energy Efficiency	9,813,098	859	11,588,887	993	1,775,789	134	145,151	162 241	17,090	620,400	32	1,155,389	101	1,775,789	134
Energy Assessments	3,396,342	396	10,599,335	1,312	7,202 993	917	5,000	10,753	5,753	3,295,161	461	3,907 831	455	7 202 993	917
My Home Energy Report	149,783,507	35,166	142,881,676	38,579	(6,901,831)	3,413	668,314	8,787,142	8,118,828	(1,826,505,392)	(423,789)	1,819,603,560	427,202	(6,901,831)	3,413
PowerManager	-	354,265		403,431		49,166	333,524	4,436,186	4,102,662	-	(4,308,628)		4,357,794	-	49,166
Residential Programs Total	231,645,031	404,126	352,208,687	467,495	120,563,656	63,369	1,935,283	18,525,476	16,590,193	(1,862,342,732)	(4,737,369)	1,982,906,388	4,800,738	120,563,656	63,369

Non-Residential Programs

Program Name	Filed in Docket E-7, Sub 1032 kWh	Filed in Docket E-7, Sub 1032 kW	Filed in Docket E 7, Sub 1073 kWh	Filed in Docket E 7, Sub 1073 kW	Overall Variance kWh	Overall Variance kW	E-7 Sub 1032 System Participation	E-7 Sub 1073 System Participation	Delta Participation	Variance due to Change in Impacts and Measure Mix kWh	Variance due to Change in Impacts and Measure Mix kW	Variance due to Change in Participation kWh	Variance due to Change in Participation kW	Sum of Variances kWh	Sum of Variances kW
Non Residential Smart Saver Custom Technical Assessments	16,694,327	1,906	9,128,218	1,504	(7,566,108)	(402)	13,526	75	(13,451)	9,035,650	1,494	(16,601,759)	(1,895)	(7,566,108)	(402)
Non Residential Smart Saver Custom	74,701,126	8,528	78,157,513	9,392	3,456,388	864	60,524	32,451	(28,073)	38,105,200	4,820	(34,648 812)	(3,955)	3,456,388	864
Energy Management Information Systems	3,430,703	571	-	-	(3,430,703)	(571)	3,353	-	(3,353)			(3,430,703)	(571)	(3,430,703)	(571)
Non Residential Smart Saver Energy Efficient Food Service Products	1,066,435	67	2,340,975	164	1,274,541	97	679	2,325	1,646	(1,308,914)	(66)	2,583,454	163	1,274,541	97
Non Residential Smart Saver Energy Efficient HVAC Products	5,934 420	2,285	4,669,724	1 252	(1,264,695)	(1,033)	53 118	925,410	872,292	(98,718,223)	(38,555)	97,453 527	37 523	(1 264,695)	(1,033)
Non Residential Smart Saver Energy Efficient Lighting Products	54,688,895	9,730	70,310,751	12,290	15,621,856	2,560	212 753	295,023	82,270	(5,525,945)	(1,203)	21,147,801	3,763	15 621,856	2,560
Non Residential Energy Efficient Pumps and Drives Products	5,698,027	689	6,487,067	787	789 040	98	5,331	5,258	(73)	866,907	107	(77,868)	(9)	789,040	98
Non Residential Energy Efficient ITEE	2,970,668	80	124,237	15	(2,846,431)	(65)	5,726	1,364	(4,362)	(583,411)	(4)	(2,263,020)	(61)	(2,846,431)	(65)
Non Residential Energy Efficient Process Equipment Products	76,829	15	661,883	159	585,054	144	378	1,450	1,072	367,198	100	217,856	44	585,054	144
Smart Energy in Offices	-		18,089,083	3,765	18,089,083	3,765		20,768,337	20,768,337	-		18,089,083	3,765	18,089,083	3,765
Small Business Energy Saver	-	-	3,807,575	920	3,807,575	920		4,023,251	4,023,251	-		3,807,575	920	3,807,575	920
PowerShare CallOption	-	28,679		-		(28,679)	27 000	-	(27,000)	-			(28 679)	-	(28,679)
PowerShare	-	430,872		382,309	-	(48,563)	405,646	4,316,021	3,910,375		(4,202,112)	-	4,153,549	-	(48,563)
Non-Residential Programs Total	165,261,428	483,423	193,777,026	412,558	28,515,599	(70,864)	788,034	30,370,965	29,582,931	(57,761,536)	(4,235,420)	86,277,135	4,164,556	28,515,599	(70,864)
Total Residential and Non-Residential Programs	396,906,459	887,548	545,985,713	880,053	149,079,254	(7,495)	2,723,317	48,896,441	46,173,124	(1,920,104,268)	(8,972,789)	2,069,183,523	8,965,294	149,079,254	(7,495)

NOTE - The actual per unit impacts are reflective of the following EM&V reports

Program Name As Filed	Docket	Report Reference	Effective Date
Smart Saver® for Residential Customers	E-7, Sub 1031	Rider 5 - Exhibit F - Residential Smart Saver CFL Process and Impacts pdf	3/1/2012
	E-7, Sub 1050	Exhibit A - Process and Impact Evaluation of Duke Energy's Residential Smart Saver® Property Manager CFLs in the Carolinas (February 18, 2013)	10/1/2012
Residential Energy Assessments	E-7, Sub 1050	Exhibit B Process and Impact Evaluation of the Residential Energy Assessments Program (Home Energy House Call) in the Carolina System (February 19, 2013)	12/1/2012
Smart Saver® for Residential Customers	E-7, Sub 1050	Exhibit C - Impact Evaluation of the Residential Smart Saver® HVAC Program in the Carolina System (February 28, 2013)	10/1/2012
Residential Energy Assessments	E-7, Sub 1050	Exhibit E Process and Impact Evaluation of the Residential Energy Assessments Program (Personalized Energy Report®) in the Carolina System (March 29, 2013)	9/1/2012
Smart Saver® for Non Residential Customers Lighting	E-7, Sub 1050	Exhibit F - Process and Impact Evaluation of the Non Residential Smart Saver® Prescriptive Program in the Carolina System- Lighting and Occupancy Sensors (April 5, 2013)	10/1/2012
PowerManager	E-7, Sub 1050	Exhibit G - Impact Evaluation and Review of the 2012 Power Manager® Program in the Carolina System (June 11, 2013)	1/1/2012
PowerShare	E-7, Sub 1050	Exhibit H - Impact Evaluation and Review of the 2012 PowerShare® Program in the Carolina System (June 11, 2013)	1/1/2012
Energy Efficiency Education Program for Schools	E-7, Sub 1050	Exhibit J - Impact Evaluation of the Energy Efficiency for Schools Program (The National Theatre for Children (NTC)) in the Carolinas System (August 21, 2013)	9/1/2012
My Home Energy Report	E-7, Sub 1073	Exhibit A Process and Impact Evaluation of the My Home Energy Report (MyHER) Program in the Carolina System (February 20, 2014)	11/1/2013
Smart Energy Now Pilot	E 7, Sub 1073	Exhibit B - Impact Evaluation of the Smart Energy Now Program (NC) (Pilot) (February 21, 2014)	1/1/2011
Appliance Recycling	E-7, Sub 1073	Exhibit C Process and Impact Evaluation of Duke Energy's Residential Appliance Recycling Program (ARP) in the Carolina System (April 25, 2014)	1/1/2012
Income Qualified Energy Efficiency- Neighborhoods	E 7, Sub 1073	Exhibit D - Process and Impact Evaluation of the 2013-2014 Residential Neighborhood Program in the Carolina System (November 14, 2014)	1/1/2012
Energy Efficient Appliances and Devices- Specialty Bulbs	E-7, Sub 1073	Exhibit E - Process and Impact Evaluation of the Residential Energy Efficient Appliance and Devices Lighting - Specialty Bulbs Program in the Carolina System (November 19, 2014)	4/1/2013
HVAC Energy Efficiency Tune & Seal	E 7, Sub 1073	Exhibit F - Evaluation of the Residential Smart Saver® Additional Measures Program in the Carolina System (December 10, 2014)	8/1/2012

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DSM YR 2014 RIDER OPT-OUT	2,059
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Customer Bill Name	EE YR 2014 (01/01/2014 - 12/31/2014) RIDER OPT-OUT	DSM YR 2014 (01/01/2014 - 12/31/2014) RIDER OPT-OUT	Grand Total
1520 SOUTH BOULEVARD LLC	1	1	2
200 NORTH COLLEGE CHARLOTTE LLC		1	1
301 S MCDOWELL STREET HOLDING LLC		1	1
A & T STATE UNIV	1	3	4
A W NORTH CAROLINA INC	4	4	8
ABERCROMBIE TEXTILES LLC	1		1
ABSS FACILITIES DEPT	2	2	4
ADIDAS GROUP LLC	1	1	2
AFFILIATED COMPUTER SERVICE	2	2	4
AFL TELECOMMUNICATIONS LLC	6	6	12
AIR PRODUCTS & CHEMICALS, INC	1	1	2
ALADDIN MANUFACTURING CORPORATION	2	2	4
ALCAN PACKAGING FOOD AND TOBACCO,INC	1	1	2
ALDERSGATE	2	2	4
ALEXANDER COUNTY SCHOOLS	2	2	4
ALFMEIER FRIEDRICHS & RATH, LLC		2	2
ALLIED DIE CASTING CO OF NC	1	1	2
ALLSTATE INSURANCE	1	1	2
ALLTRISTA PLASTICS CORPORATION	3	3	6
ALLVAC, A DIVISION OF TDY INDUSTRIES, INC	1	1	2
ALUMINA LLC	1	1	2
AMAZON.COM.DEDC LLC	1	1	2
AMERESCO PALMETTO, LLC	1	1	2
AMERICAN & EFIRD LLC	5	4	9
AMERICAN CAMPUS LLC		1	1
AMERICAN EXPRESS TRAVEL RELATED SERV CO, INC	1		1
AMERICAN FIBER & FINISHING	1	1	2

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ANDALE INC	2	2	4
ANDERSON DIST 3 SCHOOLS		1	1
ANDERSON SCHOOL DISTRICT #5	9	9	18
ANDERSON UNIVERSITY	1	1	2
ANMED HEALTH	2	1	3
APPLE INC	1	1	2
ARCHER-DANIELS-MIDLAND CO	2	2	4
ARMACELL LLC	3	4	7
ASHLAND INC	2	2	4
ASHLEY FURNITURE	1	1	2
AT&T BELLSOUTH	3	3	6
AT&T MOBILITY LLC		1	1
AT&T WIRELESS SERVICE	1		1
BAKER FURNITURE COMPANY		4	4
BALDOR ELECTRIC COMPANY	4	4	8
BANK OF AMERICA	3	6	9
BARNET POLYMERS,LLC	1	1	2
BARNHARDT MANUFACTURING COMPANY INC		3	3
BASF CORPORATION	14	14	28
BAUSCH & LOMB	2	2	4
BAY STATE MILLING	4	4	8
BB&T	6	7	13
BELL SOUTH MOBILITY	1	1	2
BELLSOUTH	5	7	12
BELLSOUTH BSC	7	8	15
BELLSOUTH COMMUNICATIONS, LLC		1	1
BELTON INDUSTRIES	2	2	4

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BEMIS MANUFACTURING CO	1	1	2
BENJAMIN COOPER	1		1
BENTELER AUTOMOTIVE CORPORATION	1	1	2
BERICAP SC, LLC	1	1	2
BERNHARDT FURNITURE COMPANY		4	4
BERRY TRI PLASTICS	1		1
BESTSWEET INC	3	3	6
BIC CORPORATION	1	1	2
BI-LO, LLC	23		23
BIOMERIEUX, INC	1	3	4
BISSELL CO		3	3
BISSELL COMPANIES		25	25
BISSELL GOLF		1	1
BISSELL HOTEL 6 LLC		1	1
BISSELL HOTELS 8, LLC		1	1
BJ'S WHOLESALE CLUB	2	2	4
BLARNEY CREEK COMPANY LLC	1	1	2
BLUE RIDGE COMMUNITY COLLEGE	1	1	2
BLUE RIDGE HEALTH CARE		1	1
BMW MANUFACTURING CO, LLC		4	4
BOB JONES UNIVERSITY	3	3	6
BOISE CASCADE WOOD PRODUCTS LLC	1		1
BONSET AMERICA CORP	1		1
BORAL STONE PRODUCTS, LLC	1	1	2
BORG WARNER AUTOMOTI	1	1	2
BOSCH REXROTH CORPORATION	2	3	5
BOSTIK INC	1	1	2

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BOWERS FIBERS INC	1		1
BOYLE BUILDING, LLC		1	1
BOYLE BUILDING,LLC		1	1
BREVARD COLLEGE	1	1	2
BSN MEDICAL INC	2	2	4
BURLINGTON TECHNOLOGIES INC	1		1
BURNSTEIN VON SEELEN PRECISION CASTINGS CORPORATION	3	3	6
C & S WHOLESALE GROCERS INC	1	1	2
CAMFIL USA INC	2	2	4
CAPITAL BROADCASTING COMPANY		5	5
CAPSUGEL MANUFACTURING, INC.	4	4	8
CARAUSTAR INC	3	3	6
CARAUSTAR INDUSTRIAL AND CONSUMER PRODUCTS GROUP INC	1	1	2
CARAUSTAR INDUSTRIES	2	3	5
CARAUSTAR MILL GROUP INC	1	1	2
CARDINAL FLOAT GLASS	1	1	2
CARGILL, INCORPORATED	4	4	8
CARLISLE FOOD SERVIC	1	1	2
CAROLINA CONTAINER	4	4	8
CAROLINA MFG	1	1	2
CAROLINA PERLITE CO	1	1	2
CAROLINA PLATING	7	7	14
CAROLINA TRACTOR & EQUIPMENT COMPANY	1	1	2
CAROLINA VILLAGE	2	2	4
CAROLINA YARN	2	2	4
CAROLINAS HEALTHCARE SYSTEM	3	14	17
CAROTELL PAPER CO	1	1	2

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CASE FARMS	1	1	2
CASTLE & COOKE NORTH CAROLINA LLC	2	2	4
CATAWBA COLLEGE		1	1
CATAWBA RIVER WATER PLT		3	3
CATAWBA VALLEY MEDICAL CENTER	1	1	2
CATERPILLAR	2	2	4
CATERPILLAR INC	2	2	4
CBL ASSOCIATES MANAGEMENT, INC	6	6	12
CELANESE LTD	7	7	14
CELGARD, LLC	4	4	8
CENTRAL TEXTILES	2	1	3
CENTURION MOREHEAD LLC		1	1
CENTURY FURNITURE, LLC	11	5	16
CERAMTEC NORTH AMERICA INNOV	1	1	2
CERTAINTEED CORP	2	2	4
CHAPEL HILL/ CARRBORO SCHO		9	9
CHARLOTTE COUNTRY DAY SCHOOL	2	2	4
CHARLOTTE LATIN SCHOOLS, INC	1	1	2
CHARLOTTE OBSERVER PUBLISHING COMPANY	2	2	4
CHARLOTTE PIPE & FOUNDRY	3	3	6
CHEMTURA CORPORATION	1	1	2
CHESAPEAKE TREATMENT COMPANY, LLC	1		1
CHESTER COUNTY SCHOOLS		4	4
CHEVRON PHILLIPS CHEMICAL CO, LP	1	1	2
CINEBARRE, LLC	1	1	2
CITY OF ASHEVILLE	1		1
CITY OF BURLINGTON	3	5	8

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CITY OF CHARLOTTE		17	17
CITY OF DURHAM	4	4	8
CITY OF GREENSBORO	16	15	31
CITY OF HENDERSONVILLE	1	1	2
CITY OF HICKORY	3		3
CITY OF KANNAPOLIS	1		1
CITY OF LANCASTER	1		1
CITY OF WINSTON SALEM	13	9	22
CK THREE TOWER CENTER,LLC		1	1
CLARIANT CORPORATION	5	5	10
CLARION TECHNOLOGIES, INC	1	1	2
CLEMENT PAPPAS NC, INC	2	4	6
CLEMSON INSTITUTE FOR ENVIRONMENTAL TOXICOLOGY	1	1	2
CLEMSON UNIVERSITY	7	7	14
CLEMSON UNIVERSITY REAL-ESTATE FOUNDATION	1	1	2
CLENDENIN LUMBER COMPANY LP	3	5	8
CLEVELAND COUNTY SCHOOLS		7	7
CLONDALKIN PHARMA & HEALTHCARE, INC	4	4	8
CLOVER SCHOOL DIST 2		2	2
CMBE		41	41
CMC-NORTHEAST INC		6	6
CMHA		2	2
COATS AMERICAN	3	3	6
COCA COLA BOTTLING CO CON	2		2
COLE CREDIT INCOME OPERATING PARTNERSHIP LP	2	2	4
COLONIAL PIPELINE	9	1	10
COMMISSION OF PUBLIC WORKS	1		1

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COMMONWEALTH BRANDS	2	2	4
COMMSCOPE, INC.	1		1
COMPX SECURITY PRODUCTS	1	1	2
CONSOLIDATED METCO INC	1		1
CONTINENTAL AUTOMOTIVE SYSTEMS, INC	2	2	4
CONVERSE COLLEGE	1	1	2
COOPER INDUSTRIES	1	1	2
COOPER STANDARD AUTOMOTIVE INC	1	1	2
COPLAND FABRICS INC	1		1
CORMETECH INC	1	1	2
CORNING CABLE SYSTEMS	2	4	6
CORNING INC	2	2	4
COSTCO WHOLESALE INC	5	5	10
COVIDIEN LP	1		1
CPCC	1	8	9
CREE INC	6	6	12
CROWN CASTING INC	1	1	2
CSHV SOUTHPARK 6100 FAIRVIEW, LLC	1	1	2
CULP INC	2	2	4
CUTLER HAMMER	1	1	2
DAA DRAEXLMAIER AUTO OF A		3	3
DAIRY FRESH	1	1	2
DALCO NONWOVENS, LLC	2	2	4
DAVIDSON COLLEGE	1	1	2
DELTA APPAREL, INCORPORATED	1	1	2
DETROIT FORMING INC	2	2	4
DIAMOND VIEW I LLC		1	1

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DIAMOND VIEW II	1	1	2
DISNEY WORLDWIDE SERVICES INC	1	1	2
DISPOZ-O-PLASTICS	2	2	4
DOOSAN INFRACORE PORTABLE POWER - A DIVISION OF CLARKE EQUIPMENT	1	1	2
DRIVE AUTOMOTIVE IND	1	1	2
DUKE SANDWICH PRODUCTIONS INC	1	1	2
DUKE UNIVERSITY	11	11	22
DURACELL	1	1	2
DURHAM COUNTY GOVERNMENT	2	2	4
DURHAM COUNTY HOSPITAL CORPORATION	1	1	2
E I DUPONT CO	1	1	2
EASLEY CUSTOM PLASTICS, INC	1		1
EASTERN BAND OF CHEROKEE INDIANS	2	2	4
EATON CORP	1	1	2
EATON CORPORATION "EATON HYDRAULICS"	2	3	5
EISAI INC	1	1	2
ELASTIC FABRICS OF AMERICA	1	1	2
ELASTRIX LLC	1	1	2
ELECTROLUX HOME PRODUCTS	1	1	2
ELON UNIVERSITY	1	1	2
EMC CORPORATION	2	2	4
EMITEC INC	1	1	2
ENCORE OF GREENVILLE		1	1
ENGINEERED CONTROLS INTERNATIONAL INC	4	4	8
EPSILON PLASTICS INC	1	1	2
EUROKERA NORTH AMERICA	1	1	2
EVONIK STOCKHAUSEN,INC	1	1	2

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FAURECIA EMISSIONS CONTROL TECHNOLOGIES	1	1	2
FAURECIA INTERIOR SYSTEMS, INC	1		1
FERGUSON SUPPLY & BOX	1	1	2
FIRESTONE BUILDING PRODUCTS, CO		1	1
FIRESTONE FIBERS & TEXTILES COMPANY, LLC		2	2
FIRST STATES INVESTORS 104,LLC		1	1
FITESA NONWOVEN INC	2	2	4
FITESA SIMPSONVILLE, INC	1	1	2
FLEXIBLE TECHNOLOGIES	3	3	6
FLEXTRONICS AMERICA, LLC	3	3	6
FLINT TRADING CO	2	2	4
FOOD LION	160	208	368
FRAM GROUP OPERATIONS LLC	1	1	2
FREIGHTLINER CORP		4	4
FREIGHTLINER OF CLEVELAND, LLC		3	3
FREUDENBERG IT LP	2	2	4
FREUDENBERG NONWOVEN	1	1	2
FRITO-LAY, INC	1	1	2
FRONTIER SPINNING MILLS, INC	2		2
FURMAN UNIVERSITY	1	1	2
FURNITURELAND SOUTH		5	5
G & I V RESOURCE SQUARE 5 LP	1		1
GAF MATERIALS CORPORATION	1	1	2
GALENOR DESIGNS, LLC	1	1	2
GARDNER WEBB UNIV	1		1
GASTON COLLEGE		2	2
GBORO NEWS & RECORD	1	1	2

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GE LIGHTING SOLUTIONS LLC	1	1	2
GENERAL ELECTRIC	1	2	3
GENPAK LLC	2	2	4
GERDAU AMERISTEEL US INC	3	2	5
GILDAN ACTIVE WEAR INC		1	1
GILDAN YARNS, LLC	2	1	3
GLAXOSMITHKLINE LLC	4	4	8
GLEN RAVEN INC	2	2	4
GREENFIELD INDUSTRIES, INC	1	1	2
GREENVILLE COUNTY SCHOOLS	27	28	55
GREENVILLE HEALTH SYSTEM	17	16	33
GREENVILLE SPARTANBURG AIRPORT DISTRICT		1	1
GREENVILLE TECH	5	5	10
GREENVILLE WATER SYSTEM	3	3	6
GREENWOOD METROPOLITAN COMMISSION	1		1
GREENWOOD MILLS, INC	1		1
GREENWOOD PACKING PLT	3	3	6
GREG L TAYLOR	1	1	2
GUILFORD COLLEGE	1	1	2
GUILFORD COUNTY SCHOOLS	41	42	83
GUILFORD TECH COMM COLL	1	1	2
HALYARD NORTH CAROLINA, INC	1		1
HAMRICK MILLS	3		3
HANES COMPANIES INC	1	1	2
HANSON AGGREGATES SOUTHEAST	4	3	7
HANSON BRICK EAST LLC	3	3	6
HARRIS TEETER INC	67	67	134

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HARTNESS INTERNATIONAL	1	1	2
HENDERSON COUNTY GOVERNMENT		3	3
HENDERSON COUNTY SCHOOLS	1	1	2
HENKEL CORPORATION	12	12	24
HERITAGE HOME GROUP LLC	2	1	3
HICKORY CITY SCHOOLS		3	3
HICKORY READY MIXED	1	1	2
HIGHWOODS PROPERTIES	12	12	24
HIGHWOODS REALTY LIMITED PARTNERSHIP	1	1	2
HIGHWOODS REALTY LTP	1	1	2
HINES GLOBAL REIT HOCK PLAZA I LLC	1	1	2
HINES INTEREST LIMITED PARTNERSHIP		2	2
HITACHI METALS NC LTD	1	1	2
HOME DEPOT		8	8
HONDA POWER EQUIPMENT	1	1	2
HONEYWELL INTERNATIONAL INC	1	1	2
HORSEHEAD CORPORATION	1	1	2
IAC SPARTANBURG, INC	1	1	2
IBM CORPORATION		1	1
ILJIN USA CORPORATION	4	4	8
INCHEM CORPORATION		2	2
INDUSTRIAL TIMBER &		2	2
ING CLARION REALTY SERVICES LLC		3	3
INGLES MARKETS, INC.	64	64	128
INGREDION INCORPORATED	1	1	2
INMAN MILLS	3		3
INNOVATIVE FIBERS LLC	1	1	2

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	Number of Accounts
DSM YR 2014 RIDER OPT-OUT	2,059
EE YR2014 RIDER OPT-OUT	1,782

Customer Bill Name	EE YR 2014 (01/01/2014 - 12/31/2014) RIDER OPT-OUT	DSM YR 2014 (01/01/2014 - 12/31/2014) RIDER OPT-OUT	Grand Total
INSURANCE INSTITUTE FOR BUSINESS & HOME SAFETY	1	1	2
INTERNATIONAL PAPER	11	12	23
INTERNATIONAL TEXTILE GROUP INC	2	2	4
INTIER AUTOMOTIVE INTERIORS OF AMERICA INC	2	2	4
IPEX USA, INC		1	1
ISOMEDIX,INC		1	1
ISOTHERMAL COMM COLLEGE	2	2	4
ITRON	2	2	4
IWG HIGH PERFORMANCE CONDUCTORS INC	2	2	4
JACKSON BOE	2	2	4
JACKSON PAPER MFG CO	1	1	2
JOHNSON CONTROLS BATTERY GROUP, INC		1	1
JOHNSON CONTROLS BATTERY GROUP, INC. POLY III FACILITY	1		1
JPS COMPOSITE MATERIALS CORP	2	1	3
JPS CONVERTER & INDUSTRIAL CORP	1		1
JTEKT AUTOMOTIVE SOUTH CAROLINA INC	2	2	4
K M FABRICS	1		1
KAPSTONE CHARLESTON KRAFT LLC	2	2	4
KAYSER ROTH CORPORATION	1		1
KEATING GRAVURE USA, LLC	1	1	2
KEMET ELECTRONICS CO	1	1	2
KENDRION-SHELBY	2	2	4
KENTWOOL COMPANY	1		1
KERRS HMR CONCRETE	1	1	2
KEYS PRINTING CO		1	1
KIMBERLY CLARK	1	1	2
KINDER MORGAN SOUTHEAST TERMINAL	1	1	2

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	Number of Accounts
DSM YR 2014 RIDER OPT-OUT	2,059
EE YR2014 RIDER OPT-OUT	1,782

Customer Bill Name	EE YR 2014 (01/01/2014 - 12/31/2014) RIDER OPT-OUT	DSM YR 2014 (01/01/2014 - 12/31/2014) RIDER OPT-OUT	Grand Total
KINDER MORGAN TRANSMIX GROUP	1	1	2
KMART CORP	2	2	4
KOHLER COMP		1	1
KOHLER COMPANY	1	1	2
KOURY CORPORATION	9	9	18
KROGER CO	5	5	10
KROGER LIMITED PARTNERSHIP I	1	1	2
KSM CASTINGS NC INC	1	1	2
KYOCERA INDUSTRIAL	2	2	4
L B PLASTICS INC	3	3	6
L S STARRETT CO	2	1	3
LACKS INDUSTRIES	1	1	2
LAND-O-SUN DAIRIES,LLC	3	3	6
LEIGH FIBERS INC	1	1	2
LENOVO INC	1	1	2
LEXINGTON FURNITURE IND	1	1	2
LINCOLN HARRIS	1	1	2
LINDE LLC	1	1	2
LOCKHEED AEROMOD	1	1	2
LORILLARD CORP	1	1	2
LORILLARD TOBACCO CO	1	1	2
LOUISIANA-PACIFIC CORPORATION	1	1	2
LOWES FOODS	31	40	71
LOWE'S HOME CENTERS, INC	60	59	119
LOWES OF FRANKLIN #717	1	1	2
LYDALL THERMAL ACOUSTICAL INC	3	3	6
MACK MOLDING CO INC		1	1

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MAGNOLIA CASTLE LLC	1	1	2
MANNINGTON WOOD FLOORS		1	1
MANUAL WOODWORKERS & WEAVERS INC	2	2	4
MARSHANE CORPORATION	2	2	4
MARTEX FIBER	4	4	8
MARTIN MARIETTA MATERIALS INC	50	48	98
MARY BLACK HEALTH SYS LLC	3	3	6
MASTIC HOME EXTERIORS, INC	1	1	2
MAUSER CORP	3		3
MCDOWELL HOSPITAL INC		1	1
MCMICHAEL MILLS INC	5	5	10
MEADOWS & OHLY 4 LLC	5	5	10
MECK CNTY JAIL CENTRAL	1	1	2
MECKLENBURG COUNTY	2	14	16
MERCK SHARP & DOHME CORP	1	1	2
MERGON CORPORATION	1	1	2
MERITOR HEAVY VEHICLE SYSTEMS	1	2	3
MERITOR HEAVY VEHICLE SYSTEMS LLC	1	1	2
METROMONT CORPORATION	5	5	10
MICHELIN AIRCRAFT TIRE CO	1	1	2
MICHELIN NORTH AMERICA	4	4	8
MILLERCOORS LLC	1	1	2
MILLIKEN & COMPANY	2	2	4
MINNESOTA MINING & MFG CO	1	1	2
MITSUBISHI POLYESTER FILM INC	2	2	4
MODERN DENSIFYING	2		2
MODERN STORAGE	3	3	6

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	Number of Accounts
DSM YR 2014 RIDER OPT-OUT	2,059
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Customer Bill Name	EE YR 2014 (01/01/2014 - 12/31/2014) RIDER OPT-OUT	DSM YR 2014 (01/01/2014 - 12/31/2014) RIDER OPT-OUT	Grand Total
MOHAWK INDUSTRIES	1	1	2
MOHICAN MILLS	1	1	2
MOM BRANDS COMPANY		1	1
MOORE WALLACE NORTH AMERICA INC	1	1	2
MOUNT VERNON MILLS INC	1	1	2
NATIONAL ELEC CARBON CORP	1	1	2
NATIONAL PIPE & PLASTICS	2	2	4
NC CENTER FOR PUBLIC TV		2	2
NC OWNER LLC		2	2
NEW EXCELSIOR, INC	1		1
NEW GENERATION YARNS	1		1
NEW SOUTH LUMBER COMPANY INC	1	1	2
NGK CERAMICS USA	1	1	2
NORBORD SOUTH CAROLINA INC	1	1	2
NORDSTROM INC	1	2	3
NORFOLK SOUTHERN	2	2	4
NORTEL NETWORKS	7	7	14
NORTH GREENVILLE UNIVERSITY	1	1	2
NORTHROP GRUMMAN GUIDANCE & ELECTRONICS COMPANY, INC	1	1	2
NOVANT HEALTH INC	6	8	14
NUTRA MANUFACTURING, INC	1	3	4
O'MARA, INC.	1	1	2
OMNISOURCE SOUTHEAST	6	3	9
OPTICAL EXPERTS MANUFACTURING	1	1	2
ORACLE FLEXIBLE PACKAGING	1	2	3
ORIAN RUGS INC	1	1	2
OWENS ILLINOIS, INC	1	1	2

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DSM YR 2014 RIDER OPT-OUT	2,059
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PACESETTER INC	5	5	10
PACKAGE CONCEPTS & MATERIALS INC	2	2	4
PACTIV LLC	3		3
PAPER STOCK DEALERS	1	1	2
PARAMOUNT PARKS INC	1	1	2
PARDEE MEMORIAL HOSPITAL	4	4	8
PARK RIDGE HOSPITAL		1	1
PARKDALE AMERICA LLC	10	9	19
PARKDALE MILLS, INC	2	1	3
PARKER HANNIFIN CORPORATION	1	2	3
PARKWAY 214 N TRYON LLC		1	1
PARKWAY 550 SOUTH CALDWELL LLC		1	1
PARKWAY PRODUCTS INC	1	1	2
PARTON LUMBER CO	7	5	12
PBM GRAPHICS INC	2	2	4
PERFORMANCE FIBERS OPERATIONS INC	5	5	10
PERRIGO CO INC	2	2	4
PET DAIRY	3	3	6
PFRS SOUTH TRYON CORP		1	1
PHARR YARNS, LLC	5	5	10
PIEDMONT TECHNICAL COLLEGE	1	1	2
PINE HALL BRICK COMPANY, INC	2	2	4
PINNACLE CTNG & CVTNG INC	1	1	2
PIONEER FROZEN FOODS SOUTH CAROLINA INC	1	1	2
PITTSBURGH GLASS WORKS LLC	1	1	2
PLANTATION PIPE LINE	5	5	10
PLASTIC OMNIUM INDUSTRIES		2	2

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Customer Bill Name	EE YR 2014 (01/01/2014 - 12/31/2014) RIDER OPT-OUT	DSM YR 2014 (01/01/2014 - 12/31/2014) RIDER OPT-OUT	Grand Total
PLYCEM USA, INC	1	1	2
POLK COUNTY SCHOOLS	2	2	4
POLYMER GROUP, INC	1	1	2
PPG INDUSTRIES FIBER GLASS PRODUCTS, INC	4	3	7
PPG INDUSTRIES INC	1	1	2
PRECISION VALVE CORP	3	2	5
PRECOR MANUFACTURING LLC	1	1	2
PRESBYTERIAN HOSPITAL	6	4	10
PRINTPACK INC	1	1	2
PRO LINE PRINTING	1	1	2
PROCTER & GAMBLE MANUFACTURING COMPANY	3	3	6
PRYSMIAN POWER CABLES AND SYSTEMS USA,LLC	2	2	4
PUBLIX SUPER MARKETS, INC	13	13	26
QUALICAPS INC	3	3	6
QUIKTRIP CORPORATION	1	1	2
R F MICRO DEVICES	1	1	2
RALPH LAUREN CORPORATION		2	2
REGAL CINEMAS	1	1	2
REGAL CINEMAS INC	8	8	16
REXAM HEALTHCARE PACKAGING INC	2	2	4
RICH PRODUCTS CORPORATION		4	4
RITE AID CORPORATION	3	3	6
RITZ CARLTON CHARLOTTE	1		1
RJ REYNOLDS TOBACCO CO	4	5	9
ROBERT BOSCH CORP	1	1	2
ROCKINGHAM COMM COLLEGE		1	1
ROCK-TENN CONVERTING CO.	5	7	12

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ROUNDPOINT FINANCIAL GROUP		1	1
ROWAN SALISBURY SCHOOLS	2	5	7
ROY METAL FINISHING	5	5	10
RR DONNELLEY & SONS COMPANY	1	1	2
RUTHERFORD COUNTY SCHOOLS	1	1	2
RUTHERFORD HOSPITAL INC	2	2	4
S J W D WATER DIST	1	1	2
SAATI AMERICAS INC	2	2	4
SAGE AUTOMOTIVE INTERIORS	4	4	8
SALISBURY MACHINERY	1	1	2
SAMS EAST INC	13	13	26
SAMUEL STRAPPING SYS INC	1	1	2
SANMINA SCI CORPORATION		1	1
SANS TECHNICAL FIBERS, LLC	3	3	6
SAPA BURLINGTON LLC		3	3
SAPA EXTRUSIONS NORTH AMERICA,LLC	1		1
SAUER-DANFOSS, INC	2	2	4
SC DEPT OF CORRECTIONS	3	2	5
SCHAEFER SYSTEMS		1	1
SCHNEIDER MILLS, INC	1	1	2
SCM METAL PRODUCTS INC	2	2	4
SEALED AIR CORPORATION	3	3	6
SEARS ROEBUCK & CO	2	2	4
SECURITY NATIONAL PROPERTIES HOLDINGS LLC		3	3
SELEE CORP	2	2	4
SEW EURODRIVE INC	2	2	4
SGL CARBON, LLC	1	1	2

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SHAMROCK CORPORATION		9	9
SHAW INDUSTRIES GROUP, INC	3	3	6
SHERATON IMPERIAL	2	2	4
SHRINERS HOSPITAL	1	1	2
SHURTAPE TECHNOLOGIES		1	1
SIERRA NEVADA BREWING CO	1	1	2
SKF SEALING SOLUTIONS	1	1	2
SONOCO CORRFLEX DISPLAY & PACKAGING,LLC	3	3	6
SONOCO CRELLIN INC	2	2	4
SONOCO PRODUCTS	1	1	2
SOUTH GRANVILLE WATER AND SEWER AUTHORITY	3	3	6
SOUTHWESTERN COMMUNITY COLLEGE	1	1	2
SPARTANBURG COMMUNITY COLLEGE	2	2	4
SPARTANBURG COUNTY GOVERNMENT	3	2	5
SPARTANBURG REGIONAL MEDICAL CENTER	4	4	8
SPARTANBURG SCHOOL DIST #1	2	2	4
SPARTANBURG SCHOOL DIST #2	5	5	10
SPARTANBURG SCHOOL DIST #5		1	1
SPARTANBURG SCHOOL DIST #6	5	5	10
SPARTANBURG SCHOOL DIST #7	4	4	8
SPRINGS GLOBAL US, INC	3	3	6
SPRINGS MEMORIAL HOSPITAL	1	1	2
ST FRANCIS HEALTH CARE SYSTEMS	2	1	3
ST. FRANCIS HOSPITAL, INC	2	1	3
STAINLESS STEEL FITTING GROUP	1	1	2
STANDARD MOTOR PRODUCTS INC	1	1	2
STAR PAPER TUBE INC		2	2

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STEFANO FOODS	3	3	6
STERILITE CORP OF S C	1	1	2
SUMITOMO ELECTRIC ESC, INC	1		1
SUMITOMO ELECTRIC LIGHTWAVE CORPORATION	2	2	4
SWAIN COUNTY SCHOOLS		1	1
SYMCOR INC	1	1	2
SYNGENTA BIOTECHNOLOGY INC	1	2	3
T&S BRASS & BRONZE WORKS	2	2	4
T5@KINGS MOUNTAIN II, LLC		1	1
TARGET STORES	26	26	52
TEAM INDUSTRIES	1	1	2
TEKNOR APEX CAROLINA	1	1	2
THE C F SAUER CO	2	2	4
THE CYPRESS OF CHARLOTTE CLUB, INC	4	4	8
THE DAVID H MURDOCK CORE LABORATORY BUILDING OWNERS ASSOCIATION, INC.	1	1	2
THE GC NET LEASE (CHARLOTTE) INVESTORS LLC	1	1	2
THE LINCOLN NATIONAL LIFE INSURANCE COMPANY		1	1
THE NC AT UNIVERSITY A&T FOUNDATION LLC	1	1	2
THE REYNOLDS CO	6	6	12
THE TIMKEN COMPANY	3	3	6
TIETEX CORPORATION	2	2	4
TIME WARNER	1	1	2
TIME WARNER CABLE, INC	1	1	2
TIME WARNER SHARED SERVICES	1	1	2
TIME-WARNER	11	11	22
TIMKENSTEEL CORPORATION	1	1	2
TRANSCONTINENTAL GAS	3	2	5

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TRANSYLVANIA COMMUNITY HOSPITAL		1	1
TRANSYLVANIA COUNTY SCHOOLS	1	1	2
TRELLEBORG COATED SYSTEMS US, INC	2	2	4
TRIBAL CASINO GAMING ENTERPRISES HARRAH'S CASINO & HOTEL	1		1
TROPICAL NUT & FRUIT CO	1	1	2
TYCO ELECTRONICS CORPORATION	5	12	17
TYCO HEALTHCARE GROUP LP	1		1
U S ENGINE VALVE CORP	1		1
UNC - CHAPEL HILL	8	8	16
UNC GREENSBORO	1	1	2
UNCC	1	2	3
UNIFI INC	1	1	2
UNIFI MANUFACTURING, INC	4	3	7
UNILIN FLOORING NC LLC	1	1	2
UNISCITE INC	1	1	2
UNITED PARCEL SERV	2	3	5
UNITED STATES COLD STORAGE	1	1	2
UNIVERSAL FOREST PRODUCTS	2	2	4
UNIVERSITY OF SC SPARTANBURG	5	5	10
UPM - RAFLATAC, INC	1	1	2
US AIRWAYS, INC.	3	4	7
US FOODS, INC	1	1	2
USC LANCASTER	1	1	2
VALASSIS COMMUNICATIONS	1	1	2
VALDESE WEAVERS	2	5	7
VELUX GREENWOOD INC	4	4	8
VERIZON WIRELESS	5	5	10

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VICTORY INDUSTRIAL PARK, LLC	1	1	2
VULCAN CONSTRUCTION MATERIALS, L P	26	21	47
W S FORSYTH COUNTY SCHOOLS	11	11	22
WAKE FOREST UNIVERSITY	3	4	7
WALBAR INC	1	1	2
WAL-MART STORES EAST,LP	76	76	152
WATTS REGULATOR COMPANY	4	4	8
WAYNE FARMS LLC	8	8	16
WBTV LLC	1	1	2
WELLS FARGO BANK NA		9	9
WESTERN CAROLINA UNIVERSITY		1	1
WESTINGHOUSE AIR BRAKE TECHNOLOGIES, CORP	2	2	4
WEYERHAEUSER COMPANY		1	1
WF PROPERTY OWNER LP		1	1
WIELAND COPPER PRODUCTS LLC	1	1	2
WILLIAM BARNETT & SONS	2	2	4
WINDWARD PRINT STAR INC	1	1	2
WINGATE UNIVERSITY	2	2	4
WINSTON TOWER MAIN LLC	1	1	2
WINTHROP UNIVERSITY	1	1	2
WOFFORD COLLEGE	3	3	6
WOVEN ELECTRONICS CORP	1	1	2
WYFF TV	1	2	3
YORK SCHOOL DISTRICT 1	4	4	8
ZF TRANSMISSIONS GREENVILLE, LLC	1	1	2
ZINK IMAGING INC	1	1	2
Total	**1782**	**2059**	**3841**

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EE Programs	Number of Accounts
Opted-Out Vintage 4 and not Vintage 2014	
A & T STATE UNIV	1
AKG THERMAL SYSTEMS	1
AKZO NOBEL SURFACE CHEMISTRY LLC	6
ARCHER-DANIELS-MIDLAND CO	3
ARJOBEX AMERICA	2
ATRIUM WINDOWS & DOORS	2
B/E AEROSPACE, INC	4
BAKER INDUSTRIES	1
BALDOR ELECTRIC COMPANY	1
BARNHARDT MANUFACTURING COMPANY INC	1
BASF CORPORATION	1
BIC CORPORATION	1
BI-LO, LLC	1
BLUE CROSS BLUE SHIELD OF NC	2
BOSCH REXROTH CORPORATION	1
CANDLE CORPORATION OF AMERICA	3
CAROLINA BEVERAGE GROUP, LLC	3
CEMEX CONSTRUCTION MATERIALS ATLANTIC, LLC	2
CHEMTRADE PERFORMANCE CHEMICALS US LLC	1
CITY OF CHARLOTTE	8
CITY OF WINSTON SALEM	1
CLEMENT PAPPAS NC, INC	2
COLUMBIA FARMS INC	6
COMMONWEALTH BRANDS	1
CONBRACO INDUSTRIES	1
CONTEC,INC	2

COVALENCE SPECIALTY MATERIALS CORPORATION	1
CPI PACKAGING INC	1
CSHV SOUTHPARK, LLC	1
CULP INC	1
DART CONTAINER CORP	1
DRUG PLASTIC & GLASS	2
DUKE UNIVERSITY	1
EASLEY CUSTOM PLASTICS, INC	1
EATON CORPORATION "EATON HYDRAULICS"	1
EXOPACK, LLC	2
FEHRER AUTOMOTIVE NORTH AMERICA LLC	1
FISHER BARTON SOUTH CAROLINA INC	1
FOOD LION	1
GENERAL ELECTRIC	2
GLAXOSMITHKLINE LLC	1
GUILFORD COUNTY SCHOOLS	2
HEALTHCARE REALTY SERVICES	2
HIGHWOODS PROPERTIES	1
HONDA R&D N AMER INC	1
IBM CORPORATION	1
INCHEM CORPORATION	1
INTERNATIONAL TEXTILE GROUP INC	1
KEEBLER COMPANY	3
KINGS MOUNTAIN MINERALS INC	6
KUBETECH CUSTOM MOLDING INC	2
LOWES FOODS	6
MARTIN MARIETTA MATERIALS INC	3
MEADWESTVACO CONSUMER PACKAGING GROUP LLC	1
MERITOR HEAVY VEHICLE SYSTEMS	1
METROMONT CORPORATION	2
MID ATLANTIC INFRASTRUCTURE INC	2
NATIONAL GYPSUM CO	1
NC BAPTIST HOSPITAL	3
NC CENTER FOR PUBLIC TV	3

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NOVANT HEALTH INC	7
NUTRA MANUFACTURING, INC	2
ORACLE FLEXIBLE PACKAGING	1
PARKER HANNIFIN CORPORATION	4
PERRIGO CO INC	1
PHARR YARNS, LLC	1
PLASTIC OMNIUM INDUSTRIES	1
PRYSMIAN CABLES	2
ROCHLING AUTOMOTIVE, INC	1
ROCHLING ENGINEERED PLAS	2
ROWAN SALISBURY SCHOOLS	3
SCHAEFER SYSTEMS	1
SONOCO PRODUCTS	1
SPARTANBURG AUTOMOTIVE, INC.	1
SPARTANBURG STAINLESS PRODUCTS	2
SQUARE D CORPORATION	1
THE TIMKEN COMPANY	1
TIETEX CORPORATION	1
TYSON FARMS INC	8
UNIFI MANUFACTURING, INC	1
UNIVERSAL FOREST PRODUCTS	6
WAKE FOREST UNIVERSITY HEALTH SCIENCES	1
WELLS FARGO BANK NA	5
WESTERN CAROLINA UNIVERSITY	1
WILKES COUNTY BOARD OF EDUCATION	5
TOTAL	**178**

DSM Programs	Number of Accounts
Opted-Out Vintage 4 and not Vintage 2014	
3G MERMET CORP	1
AKG THERMAL SYSTEMS	1
AKZO NOBEL SURFACE CHEMISTRY LLC	6
ALDERSGATE	1

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AMERICAN EXPRESS TRAVEL RELATED SERV CO, INC	1
ARCHER-DANIELS-MIDLAND CO	3
ARJOBEX AMERICA	2
ATRIUM WINDOWS & DOORS	2
B/E AEROSPACE, INC	4
BAKER INDUSTRIES	1
BALDOR ELECTRIC COMPANY	1
BALLANTYNE RESORT, LLC	1
BASF CORPORATION	1
BERRY TRI PLASTICS	1
BIC CORPORATION	1
BILLY GRAHAM EVANGELISTIC	2
BI-LO, LLC	24
BLUE CROSS BLUE SHIELD OF NC	2
BONSET AMERICA CORP	1
BURLINGTON TECHNOLOGIES INC	1
CANDLE CORPORATION OF AMERICA	1
CAROLINA BEVERAGE GROUP, LLC	3
CEMEX CONSTRUCTION MATERIALS ATLANTIC, LLC	2
CHEMTRADE PERFORMANCE CHEMICALS US LLC	1
CIM URBAN REIT PROPERTIES VIII LP	1
CITY OF HICKORY	4
CLEMENT PAPPAS NC, INC	1
COLUMBIA FARMS INC	6
COMMONWEALTH BRANDS	1
COMMSCOPE, INC.	6
CONBRACO INDUSTRIES	1
CONSOLIDATED METCO INC	1
CONTEC,INC	2
COVALENCE SPECIALTY MATERIALS CORPORATION	1
CPI PACKAGING INC	1
CSHV SOUTHPARK, LLC	1
CULP INC	1
DART CONTAINER CORP	1

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DRUG PLASTIC & GLASS	2
DUKE UNIVERSITY	1
EASLEY CUSTOM PLASTICS, INC	1
EXOPACK, LLC	2
FEHRER AUTOMOTIVE NORTH AMERICA LLC	1
FISHER BARTON SOUTH CAROLINA INC	1
FREIGHTLINER CORP	1
G & I V RESOURCE SQUARE 5 LP	1
GARDNER WEBB UNIV	1
GENERAL ELECTRIC	2
GLAXOSMITHKLINE LLC	1
GUILFORD COUNTY SCHOOLS	2
HANSON AGGREGATES SOUTHEAST	1
HEALTHCARE REALTY SERVICES	2
HENDERSON COUNTY SCHOOLS	1
HIGHWOODS PROPERTIES	1
HONDA R&D N AMER INC	1
KAYSER ROTH CORPORATION	1
KEEBLER COMPANY	3
KINGS MOUNTAIN MINERALS INC	6
KUBETECH CUSTOM MOLDING INC	2
L S STARRETT CO	1
MARTIN MARIETTA MATERIALS INC	2
MEADWESTVACO CONSUMER PACKAGING GROUP LLC	1
METROMONT CORPORATION	2
MID ATLANTIC INFRASTRUCTURE INC	2
N C FOAM IND INC	1
NATIONAL GYPSUM CO	1
NC BAPTIST HOSPITAL	3
NC CENTER FOR PUBLIC TV	1
NEW GENERATION YARNS	1
NOVANT HEALTH INC	1
ONE WORLD TECHNOLOGIES INC	1
OWT INDUSTRIES, INC	1

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PARKER HANNIFIN CORPORATION	4
PERRIGO CO INC	1
PLASTIC PACKAGING INC.	3
POLYDECK SCREEN CORP	3
PRESBYTERIAN HOSPITAL	1
PRESBYTERIAN MEDICAL CARE CORP	1
PRYSMIAN CABLES	2
ROCHLING AUTOMOTIVE, INC	1
ROCHLING ENGINEERED PLAS	2
SHUFORD YARNS,LLC	2
SHURTAPE TECHNOLOGIES	2
SONOCO PRODUCTS	1
SPARTANBURG AUTOMOTIVE, INC.	1
SPARTANBURG STAINLESS PRODUCTS	2
SQUARE D CORPORATION	1
STIEFEL LABORATORIES INC	1
SUMITOMO ELECTRIC ESC, INC	1
THE TIMKEN COMPANY	1
THOMAS BUILT BUSES	1
TIETEX CORPORATION	1
TRIMITE POWDERS INC	1
TYSON FARMS INC	8
UNIVERSAL FOREST PRODUCTS	6
WAKE FOREST UNIVERSITY HEALTH SCIENCES	2
WELLS FARGO BANK NA	2
WILKES COUNTY BOARD OF EDUCATION	5
YMCA OF NORTHWEST NORTH CAROLINA	2
TOTAL	**202**

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Barnes Exhibit 10

I/A

Duke Energy Carolinas, LLC
DSM/EE True Up for the Period January 1, 2010 to December 31, 2013
Docket Number E-7, Sub 1073
Allowed Return on Investment Calculation

Line					
1	Nominal Avoided Cost Target based on Save-A-Watt Settlement Agreement	E-7 Sub 831 Settlement Agreement	$	754,000,000	
2	Nominal Avoided Cost Savings Achieved during Vintage 1-Vintage 4	Line 8	$	924,937,654	
3	Achievement as a Percent of Target	Line 1 / Line 2		123%	
4	Allowed Return on Investment Percentage @ >90% Achievement of Target			15%	
5	Calculation of Breakdown of Avoided Costs Savings Components:				
6	EE Nominal Avoided Cost Savings		$	750,651,723	81%
7	DSM Nominal Avoided Costs Savings		$	174,285,931	19% *
8	Total Nominal Avoided Cost Savings Achieved during Vintage 1-Vintage 4		$	924,937,654	

* Per Settlement Agreement, No more than 35% of the target may be met by DSM programs

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Barnes Exhibit 11

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Duke Energy Carolinas, LLC
Shared Savings Incentive Calculation
Docket Number E-7, Sub 1073
Estimate January 1, 2016- December 31, 2016

			System
NPV of AC - Res EE		$	60,481,067
NPV of AC - Non Res EE			170,463,763
NPV of AC - DSM			104,996,908
Total NPV of Avoided Costs	**A**	**$**	**335,941,738**
Program Costs - Res EE		$	31,964,548
Program Costs - Non Res EE			50,019,993
Program Costs - DSM			31,195,486
Total Program Costs	**B**	**$**	**113,180,027**
Net Savings	**C= A-B**	**$**	**222,761,711**
Sharing Percentage	**D**		**11.50%**
Shared Savings - Res EE		$	3,279,400
Shared Savings - Non Res EE			13,851,034
Shared Savings - DSM			8,487,164
Total Shared Savings	**E =(A-B)*D**	**$**	**25,617,597**

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Duke Energy Carolinas, LLC
EE Vintage 1 (June 1, 2009 - December 31, 2009)
Docket Number E-7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program

Line	Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	A System Avoided Cost Revenue Requirement @50%	B System Avoided Cost @ 100%	C NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg 1)	D NC Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
1	Residential Energy Assessments	1,057	8,369,462	$ 1,106 481	$ 2,212,962	73 0077318%	$ 807 817
2	Smart Saver® for Residential Customers	1,592	12,547,819	1,940,744	3 881,488	73 0077318%	1,416,893
3	Low Income Energy Efficiency and Weatherization Assistance	143	1,354,096	141 337	282,675	73 0077318%	103 187
4	Energy Efficiency Education Program for Schools	56	303,763	55,373	110,746	73 0077318%	40,427
5	Total for Residential Conservation Programs	2,849	22,575 141	$ 3,243,936	$ 6 487,871		$ 2,368,324
				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 1)	A6 * C6
6	**Total DSM Programs (at 75% Avoided Cost)**	116,172		$ 4,655,124	$ 6,206,832	33 9010659%	$ 1,578,137

Line	Non-Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 1)	NC Non Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
7	Smart Saver® for Non Residential Customers Lighting	5,267	28,004,505	$ 5,247,545	$ 10,495,089	73 0077318%	$ 3,831,113
8	Smart Saver® for Non-Residential Customers Motors	124	624,404	183,846	367,691	73 0077318%	134,222
9	Smart Saver® for Non Residential Customers Other Prescriptive (Process Equipment)	-	-			73 0077318%	
10	Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	46	257,738	67,096	134,192	73 0077318%	48,985
11	Smart Saver® for Non-Residential Customers - HVAC	267	765,127	295,533	591,065	73 0077318%	215,762
12	Smart Saver® for Non-Residential Customers - Custom Rebate	19	232,797	30,165	60,330	73 0077318%	22,023
13	Total for Non-Residential Conservation Programs	5,724	29,884,571	$ 5,824,184	$ 11,648,368		$ 4,252,105
				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Non Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 1)	A14* C14
14	**Total DSM Programs (at 75% Avoided Cost)**	116,172		$ 4,655,124	$ 6 206,832	39 9179344%	$ 1,858,229
				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Retail Peak Demand Allocation Factor (Miller Exhibit 5, Pg 1)	A17* C17
	Total DSM Program Breakdown						
15	Power Manager (Residential)	57,494	-	$ 3,082,269	$ 4,109,692		
16	Power Share (Non Residential)	58,678		1,572,855	2,097,140		
17	Total DSM	116,172		$ 4,655,124	$ 6,206,833	73 8190004%	$ 3,436,366

(1) Total System DSM programs allocated to Residential and Non Residential based on contribution to retail system peak
Note Schedule may not foot due to rounding

Duke Energy Carolinas, LLC
EE Vintage 1 (January 1, 2010 December 31, 2010)
Docket Number E-7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program

Line	Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	A System Avoided Cost Revenue Requirement @50%	B System Avoided Cost @ 100%	C NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg 2)	D NC Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
1	Residential Energy Assessments	1 563	11 178 033	$ 1 549 012	$ 3 098,024	72 7072722%	$ 1,126 244
2	Smart Saver® for Residential Customers	41,497	381,777,103	42,560,548	85 121,096	72 7072722%	30,944 613
3	Low Income Energy Efficiency and Weatherization Assistance	599	5 663,263	591 118	1 182,236	72 7072722%	429 786
4	Energy Efficiency Education Program for Schools	469	2 526,416	460 540	921,080	72 7072722%	334 846
5	Residential Retrofit Pilot				-	72 7072722%	
6	Home Energy Comparison Report (My Home Energy Report)	159	854,645	24,503	49,006	72 7072722%	17,815
7	Total for Residential Conservation Programs	44,287	401 999,460	$ 45,185,721	$ 90 371,442		$ 32 853,305

				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 2)	A8 * C8
8	**Total DSM Programs (at 75% Avoided Cost)**	438,636		$ 23,481,287	$ 31 308,383	34 4404513%	$ 8 087,061

	Non-Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg 2)	NC Non-Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
9	Smart Saver® for Non-Residential Customers Lighting	13,466	68,411,677	$ 13,710,093	$ 27 420,185	72 7072722%	$ 9,968 234
10	Smart Saver® for Non-Residential Customers Motors	533	2 724 749	798 480	1 596,959	72 7072722%	580,553
11	Smart Saver® for Non-Residential Customers - Other Prescriptive (Process Equipment)	0	380	44	87	72 7072722%	32
12	Smart Saver® for Non-Residential Customers Energy Star Food Service Products	155	788 310	191 588	383,176	72 7072722%	139 298
13	Smart Saver® for Non-Residential Customers - HVAC	1,586	3,964,553	1,734,583	3 469,166	72 7072722%	1,261,168
14	Smart Saver® for Non-Residential Customers - Custom Rebate	2,716	21,205,380	3,608,163	7,216,325	72 7072722%	2,623,397
15	Total for Non-Residential Conservation Programs	18 456	97,095 050	$ 20 042,949	$ 40 085,899		$ 14,572,682

				System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Non Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 2)	A16* C16
16	**Total DSM Programs (at 75% Avoided Cost)**	438 636		$ 23,481,287	$ 31,308,383	40 3489126%	$ 9,474,444

	Total DSM Program Breakdown			System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Retail Peak Demand Allocation Factor (Miller Exhibit 5, Pg 2)	A19* C19
17	Power Manager (Residential)	228,421		$ 12,245,662	$ 16,327,550		
18	Power Share (Non Residential)	210 215		11,235,625	14,980,833		
19	Total DSM	438,636		$ 23,481,287	$ 31,308,383	74 7893638%	$ 17,561,505

(1) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak
Note Schedule may not foot due to rounding

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Duke Energy Carolinas, LLC
EE Vintage 2 (January 1, 2011 - December 31, 2011)
Docket Number E-7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program

Line	Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	A System Avoided Cost Revenue Requirement @ 50%	B System Avoided Cost @ 100%	C NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg 3)	D NC Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
1	Residential Energy Assessments	1,306	9,227,946	$ 1,314,136	$ 2 628,271	72 6972151%	$ 955,340
2	Smart Saver® for Residential Customers	39,712	367,409,449	40,319,118	80 638,236	72 6972151%	29,310,876
3	Low Income Energy Efficiency and Weatherization Assistance	52	488,949	50,792	101,583	72 6972151%	36,924
4	Energy Efficiency Education Program for Schools	262	1,413 208	265,292	530,585	72 6972151%	192,860
5	Residential Retrofit Pilot	21	126,564	40,936	81,871	72 6972151%	29,759
6	Home Energy Comparison Report (My Home Energy Report)	66	356,218	30,711	61,423	72 6972151%	22,326
7	Total for Residential Conservation Programs	41,419	379,022,334	$ 42,020,984	$ 84 041,969		$ 30,548,085

				System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg. 3)	A8 * C8
8	**Total DSM Programs (at 75% Avoided Cost)**	548,335		$ 30,101,993	$ 40 135,991	32 2293181%	$ 9 701,667

	Non-Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @ 50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 3)	NC Non-Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
9	Smart Saver® for Non-Residential Customers Lighting	11,329	64,190,217	$ 13,497,639	$ 26,995,278	72 6972151%	$ 9,812,407
10	Smart Saver® for Non-Residential Customers Motors	1,107	5,750,908	1,286,403	2,572,806	72 6972151%	935 179
11	Smart Saver® for Non-Residential Customers - Other Prescriptive (Process Equipment)	82	503,823	54,884	109,767	72 6972151%	39,899
12	Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	184	1 012 402	263 359	526 717	72 6972151%	191,454
13	Smart Saver® for Non-Residential Customers - HVAC	1,869	4,987 231	2,094,930	4 189,860	72 6972151%	1,522,956
14	Smart Saver® for Non-Residential Customers - Custom Rebate	6,585	55,974,704	11,605,896	23,211,792	72 6972151%	8,437,163
15	Smart Energy Now	692	21,876,936	2,164,517	4,329,034	72 6972151%	1,573,544
16	Total for Non-Residential Conservation Programs	21,848	154,296,221	$ 30,967,627	$ 61,935,253		$ 22,512,602

				System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 3)	A17* C17
17	**Total DSM Programs (at 75% Avoided Cost)**	548,335		$ 30,101,993	$ 40,135,991	42 2350050%	$ 12,713,578

	Total DSM Program Breakdown			System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Retail Peak Demand Allocation Factor (Miller Exhibit 5, Pg 3)	A20* C20
18	Power Manager (Residential)	226 935	-	$ 12,470,132	$ 16,626,843		
19	Power Share (Non-Residential)	321,400	-	$ 17,631,861	$ 23,509,148		
20	Total DSM	548,335		$ 30,101,993	$ 40,135,991	74 4643230%	$ 22,415,245

(1) Total System DSM programs allocated to Residential and Non Residential based on contribution to retail system peak
Note Schedule may not foot due to rounding

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Duke Energy Carolinas, LLC
EE Vintage 3 (January 1, 2012 December 31, 2012)
Docket Number E-7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program

Line	Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	A System Avoided Cost Revenue Requirement @ 50%	B System Avoided Cost @ 100%	C NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg 4)	D NC Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
1	Appliance Recycling	143	1 038 548	$ 145 177	$ 290 354	72 7194575%	$ 105 572
2	Residential Energy Assessments	1 607	10,486,549	1,773,940	3,547,879	72 7194575%	1 289 999
3	Smart Saver® for Residential Customers	24 247	224 336 833	25 851 451	51,702,902	72 7194575%	18 799 035
4	Low Income Energy Efficiency and Weatherization Assistance		-			72 7194575%	
5	Energy Efficiency Education Program for Schools	1 748	9 422 807	1 781 282	3 562,564	72 7194575%	1 295,338
6	Residential Retrofit Pilot	47	283,678	94,987	189,973	72 7194575%	69 074
7	Home Energy Comparison Report (My Home Energy Report)	10,461	49,339,464	1,478,665	2,857,330	72 7194575%	1,038,918
8	Total for Residential Conservation Programs	38 253	294,907,880	$ 31,075,501	$ 62 151,002		$ 22,597,936

			System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 4)	A9 * C9
9	**Total DSM Programs (at 75% Avoided Cost)**	645,443	$ 36,331,282	$ 48,441,710	34 8388691%	$ 12 657 408

D

	Non-Residential Programs	System kW Reduction Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @ 50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg 4)	NC Non-Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
10	Smart Saver® for Non-Residential Customers Lighting	12 689	73 807,092	$ 15 930,066	$ 31 860,133	72 7194575%	$ 11 584 258
11	Smart Saver® for Non-Residential Customers Motors	1,132	5,967,650	1,386,295	2 772,590	72 7194575%	1,008,106
12	Smart Saver® for Non-Residential Customers - Other Prescriptive (Process Equipment)					72 7194575%	
13	Smart Saver® for Non-Residential Customers - Energy Star Food Service Products	366	1,950,854	513,211	1 026,423	72 7194575%	373 205
14	Smart Saver® for Non-Residential Customers - HVAC	1,716	4,120,481	2,004,592	4 009 184	72 7194575%	1,457,728
15	Smart Saver® for Non-Residential Customers - Custom Rebate	15,371	113,380,706	24,480 159	48 960,318	72 7194575%	17,801,839
16	Smart Energy Now	386	11,795,664	1,198,584	2 397,168	72 7194575%	871,604
17	Total for Non-Residential Conservation Programs	31,660	211,022,446	$ 45,512,908	$ 91 025,815		$ 33,096,739

			System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Non Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 4)	A18* C18
18	**Total DSM Programs (at 75% Avoided Cost)**	645 443	$ 36,331,282	$ 48,441,710	39 8808428%	$ 14,489,221

	Total DSM Program Breakdown			System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Retail Peak Demand Allocation Factor (Miller Exhibit 5, Pg 4)	A21* C21
19	Power Manager (Residential)	268,706		$ 15,134,607	$ 20,179,477		
20	Power Share (Non Residential)	376,736	-	$ 21,196,675	$ 28,262,233		
21	Total DSM	645,443		$ 36,331,282	$ 48,441,710	74 7197120%	$ 27,146 630

(1) Total System DSM programs allocated to Residential and Non Residential based on contribution to retail system peak
Note Schedule may not foot due to rounding

Duke Energy Carolinas, LLC
EE Vintage 4 (January 1, 2013 December 31, 2013)
Docket Number E-7, Sub 1073
Load Impacts and Avoided Cost Revenue Requirements by Program

Line	Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	A System Avoided Cost Revenue Requirement @ 50%	B System Avoided Cost @ 100%	C NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg 5)	D NC Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
1	Appliance Recycling	668	4 854 769	$ 716 869	$ 1 433,738	72 9600473%	$ 523 028
2	Residential Energy Assessments	1 426	7 688 605	2 022,135	4 044,269	72 9600473%	1 475 350
3	Smart Saver® for Residential Customers	13 348	122 828 597	15 299 257	30 598,514	72 9600473%	11 162 345
4	Low Income Energy Efficiency and Weatherization Assistance	212	1,141,122	209 005	418,010	72 9600473%	152 490
5	Residential Neighborhood Program					72 9600473%	
6	Energy Efficiency Education Program for Schools	1,011	5,450 099	998,224	1 996,448	72 9600473%	728 305
7	Home Energy Comparison Report (My Home Energy Report)	23,002	108,666 008	4,695,898	9,391,796	72 9600473%	3,426,129
8	Total for Residential Conservation Programs	39,667	250,629 200	$ 23,941 388	$ 47 882,775		$ 17,467 647

			System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 5)	A * C
9	**Total DSM Programs (at 75% Avoided Cost)**	707,025	$ 40 799 886	$ 54 399,848	34 0209980%	$ 13 880 528

	Non-Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System Avoided Cost Revenue Requirement @ 50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg 5)	NC Non-Residential Avoided Costs A * C
	EE Programs (at 50% Avoided Cost)						
10	Smart Saver® for Non-Residential Customers Lighting	13 096	76 690 274	$ 16 327,527	$ 32 655 054	72 9600473%	$ 11 912 571
11	Smart Saver® for Non Residential Customers Motors	1,570	8,065,178	1,965 520	3,931,040	72 9600473%	1,434 044
12	Smart Saver® for Non-Residential Customers Other Prescriptive (Process Equipment)	32	133 175	44 887	89 774	72 9600473%	32 750
13	Smart Saver® for Non-Residential Customers Energy Star Food Service Products	209	1,132 425	335 181	670 363	72 9600473%	244 549
14	Smart Saver® for Non-Residential Customers - HVAC	1 912	5 081 170	2 277 985	4 555 969	72 9600473%	1 662 019
15	Smart Saver® for Non-Residential Customers Custom Rebate	13,250	100,660 054	22,278,186	44,556,371	72 9600473%	16,254,175
16	Total for Non-Residential Conservation Programs	30,070	191 762 276	$ 43 229 285	$ 86,458,571		$ 31 540 107

			System Avoided Cost Revenue Requirement @ 75%	System Avoided Cost @ 100%	NC Non-Residential Peak Demand Allocation Factor (Miller Exhibit 5, Pg 5)	A* C
17	**Total DSM Programs (at 75% Avoided Cost)**	707,025	$ 40 799 886	$ 54 399 848	41 2108021%	$ 16 813,960

	Total DSM Program Breakdown		System Avoided Cost Revenue Requirement @75%	System Avoided Cost @ 100%	NC Retail Peak Demand Allocation Factor (Miller Exhibit 5, Pg 5)	A* C
18	Power Manager (Residential)	328 993	$ 18 993 470	$ 25 324 627		
19	Power Share (Non Residential)	378 032	$ 21,806 416	$ 29,075,221		
20	Total DSM	707,025	$ 40,799 886	$ 54 399 848	75 2318001%	$ 30 694 489

(1) Total System DSM programs allocated to Residential and Non Residential based on contribution to retail system peak
Note Schedule may not foot due to rounding

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Duke Energy Carolinas, LLC
Vintage 2014 True up for January 1, 2014 to December 31 2014
Docket Number E 7, Sub 1073
Load Impacts and Estimated Revenue Requirements excluding Lost Revenue by Program

	System kW Reduction Summer Peak	System Energy Reduction (kWh)	A System NPV of Avoided Cost	B System Cost	C =(A B * 11 5%) Earned Utility Incentive	D= B+C System Cost Plus Incentive	E NC Retail kWh Sales Allocation Factor (Miller Exhibit 5 pg 6)	NC Residential Revenue Requirement D * E
Residential Programs								
EE Programs								
1 Appliance Recycling Program	709	5 100 458	$ 1 763 411	$ 1 515 867	$ 28 468	$ 1 544 335	72 9600473%	$ 1 126 747
2 Energy Efficiency Education	746	7 098 145	5 157 345	1 963 153	367 332	2 330 485	72 9600473%	1 700 323
3 Energy Efficient Appliances and Devices	18 424	167 039 197	50 838 876	14 738 129	4 151 586	18 889 715	72 9600473%	13 781 945
4 HVAC Energy Efficiency	2 509	4 526 177	7 061 500	4 786 807	261 590	5 048 397	72 9600473%	3 683 313
5 Income Qualified Energy Efficiency and Weatherization Assistance	792	3 374 813	1 675 463	1 917 192		1 917 192	72 9600473%	1 398 784
6 Multi Family Energy Efficiency	993	11 588 887	5 610 043	1 442 533	479 264	1 921 797	72 9600473%	1 402 144
7 Energy Assessments	1 312	10 599 335	12 827 575	3 605 737	1 060 511	4 666 248	72 9600473%	3 404 497
8 Subtotal	25 485	209 327 011	$ 84 934 213	$ 29 969 419	$ 6 348 750	$ 36 318 168		$ 26 497 753
9 My Home Energy Report (1)	38 579	142 881 676	12 166 183	8 285 066	446 328	8 731 394	72 9600473%	6 370 430
10 Total for Residential Energy Efficiency Programs	64 064	352 208 687	$ 97 100 396	$ 38 254 485	$ 6 795 079	$ 45 049 563		$ 32,868,183
							NC Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg 6)	D11* E11
11 **Total DSM Programs (2)**	785 740		113 683 464	$ 31 183 185	$ 9 487 532	$ 40 670 718	34 0209980%	$ 13,836,584
12 **Total Residential Revenue Requirement**								$ 46,704,767

	System kW Reduction Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	System Cost	Earned Utility Incentive	System Cost Plus Incentive	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5 pg 6)	NC Non Residential Revenue Requirement D * E
Non-Residential Programs								
EE Programs								
13 Non Residential Smart Saver Custom Energy Assessments	1 504	9 128 218	$ 6 858 644	$ 1 458 195	$ 621 052	$ 2 079 247	72 9600473%	$ 1 517 019
14 Non Residential Smart Saver Custom	9 392	78 157 513	49 908 871	8 136 712	4 803 798	12 940 510	72 9600473%	9 441 402
15 Energy Management Information Services				74 855	(8 608)	66 247	72 9600473%	48 334
16 Non Residential Smart Saver Energy Efficient Food Service Products	164	2 340 975	1 489 862	199 350	148 409	347 759	72 9600473%	253 725
17 Non Residential Smart Saver Energy Efficient HVAC Products	1 252	4 669 724	5 224 765	815 339	507 084	1 322 423	72 9600473%	964 840
18 Non Residential Smart Saver Energy Efficient Lighting Products	12 290	70 310 751	40 866 018	6 727 675	3 925 909	10 653 584	72 9600473%	7 772 860
19 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	787	6 487 067	3 629 866	584 874	350 174	935 048	72 9600473%	682 212
20 Non Residential Smart Saver Energy Efficient IT Products	15	124 237	35 580	25 730	1 133	26 863	72 9600473%	19 599
21 Non Residential Smart Saver Energy Efficient Process Equipment Products	159	661 883	660 330	89 809	65 610	155 419	72 9600473%	113 394
22 Small Business Energy Saver	920	3 807 575	2 662 785	1 026 607	188 160	1 214 767	72 9600473%	886 295
23 Smart Energy in Offices	3 765	18 089 083	1 972 535	1 156 497	93 844	1 250 341	72 9600473%	912 250
24 Total for Non Residential Energy Efficiency Programs	30 248	193 777 026	$ 113 309 256	$ 20 295 642	$ 10 696 565	$ 30 992 208		$ 22,611,930
							NC Non Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg 6)	D25*E25
25 **Total DSM Programs(2)**	785 740		$ 113 683 464	$ 31 183 185	$ 9 487 532	$ 40 670 718	41 2108021%	$ 16,760,729
26 **Total Non-Residential Revenue Requirement**								$ 39 372,659
							NC Retail Peak Demand Allocation Factor (Miller Exhibit 5 pg 5)	D30* E30
Total DSM Program Breakdown								
27 Power Manager (Residential)	403 431		$ 58 390 087	$ 15 662 693	$ 4 913 650	$ 20 576 344		
28 Power Share CallOption (Non Residential)								
29 Power Share (Non Residential)	382 309		$ 55 293 377	$ 15 520 492	$ 4 573 882	$ 20 094 374		
30 Total DSM	785 740		$ 113 683 464	$ 31 183 185	$ 9 487 532	$ 40 670 718	75 2318001%	$ 30 597 313

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year including impacts for participants from prior vintage
(2) Total System DSM programs allocated to Residential and Non Residential based on contribution to retail system peak

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Duke Energy Carolinas, LLC
Vintage 2016 Estimate for January 1, 2016 to December 31, 2016
Docket Number E 7 Sub 1073
Load Impacts and Estimated Revenue Requirements, excluding Lost Revenue by Program

	System kW Reduction Summer Peak	System Energy Reduction (kWh)	A System NPV of Avoided Cost	B System Cost	C = (A B) *11 5% Earned Utility Incentive	D= B+C System Cost Plus Incentive	E NC Retail kWh Sales Allocation Factor (Miller Exhibit 5 pg 6)	NC Residential Revenue Requirement D * E
Residential Programs								
EE Programs								
1 Appliance Recycling Program	791	5 655 112	$ 2 213 692	$ 1 754 540	$ 52 802	$ 1 807 342	72 9600473%	$ 1 318 638
2 Energy Efficiency Education	691	6 580 248	4 153 775	2 474 928	193 067	2 667 995	72 9600473%	1 946 571
3 Energy Efficient Appliances and Devices	4 061	36 348 769	16 316 953	5 528 158	1 240 711	6 768 869	72 9600473%	4 938 570
4 HVAC Energy Efficiency	1 527	3 365 177	4 810 440	5 107 181	(34 125)	5 073 056	72 9600473%	3 701 304
5 Income Qualified Energy Efficiency and Weatherization Assistance	1 004	5 010 021	3 272 617	10 601 322		10 601 322	72 9600473%	7 734 730
6 Multi Family Energy Efficiency	1 019	12 370 047	7 638 888	1 883 584	661 860	2 545 444	72 9600473%	1 857 157
7 Energy Assessments	934	7 546 592	7 985 154	3 010 149	572 126	3 582 275	72 9600473%	2 613 629
8 Subtotal	10 027	76 825 466	$ 46 391 519	$ 30 359 862	$ 2 686 442	$ 33 046 304		$ 24 110 599
9 My Home Energy Report (1)	55 319	204 879 939	17 362 165	12 206 008	592 958	12 798,966	72 9600473%	9 338 132
10 Total for Residential Energy Efficiency Programs	65 346	281 705 405	$ 63 753 684	$ 42 565 870	$ 3 279 400	$ 45 845 270		$ 33,448,730
							NC Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg 6)	D11* E11
11 **Total DSM Programs (2)**	928 994		104 996 908	$ 31 195 486	$ 8 487 164	$ 39 682 650	34 0209980%	$ 13,500,433
12 **Total Residential Revenue Requirement**								$ 46,949,164

	System kW Reduction Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	System Cost	Earned Utility Incentive	System Cost Plus Incentive	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5 pg 6)	NC Non Residential Revenue Requirement D * E
Non-Residential Programs								
EE Programs								
13 Non Residential Smart Saver Custom Energy Assessments	2 001	17 528 673	$ 8 974 637	$ 2 811 494	$ 708 761	$ 3 520 255	72 9600473%	$ 2 568 380
14 Non Residential Smart Saver Custom	8 954	78 437 169	42 388 414	9 835 671	3 743 565	13 579 236	72 9600473%	9 907 417
15 Non Residential Smart Saver Energy Efficient Food Service Products	120	1 656 886	769 076	243 073	60 490	303 563	72 9600473%	221 480
16 Non Residential Smart Saver Energy Efficient HVAC Products	2 912	7 233 762	10 449 359	1 923 416	980 483	2 903 899	72 9600473%	2 118 686
17 Non Residential Smart Saver Energy Efficient Lighting Products	13 942	83 856 747	49 163 384	7 813 306	4 755 259	12 568 565	72 9600473%	9 170 031
18 Non Residential Smart Saver Energy Efficient Pumps and Drives Products	876	7 239 343	3 067 346	954 985	242 922	1 197 907	72 9600473%	873 993
19 Non Residential Smart Saver Energy Efficient IT Products	137	5 572 871	1 786 471	584 982	138 171	723 153	72 9600473%	527 613
20 Non Residential Smart Saver Energy Efficient Process Equipment Products	19	97 022	74 035	33 279	4 687	37 966	72 9600473%	27 700
21 Small Business Energy Saver	16 596	68 899 042	48 587 924	21 459 213	3 119 802	24 579 015	72 9600473%	17 932 861
22 Smart Energy in Offices	8 073	38 787 988	5 203 117	4 360 574	96 892	4 457 466	72 9600473%	3 252 170
23 Total for Non Residential Energy Efficiency Programs	53 630	309 309 503	$ 170 463 763	$ 50 019 993	$ 13 851 034	$ 63 871 027		$ 46,600,331
							NC Non Residential Peak Demand Allocation Factor (Miller Exhibit 5 pg 6)	D24*E24
24 **Total DSM Programs(2)**	928 994		$ 104 996 908	$ 31 195 486	$ 8 487 164	$ 39 682 650	41 2108021%	$ 16,353,538
25 **Total Non Residential Revenue Requirement**								$ 62,953,869
							NC Retail Peak Demand Allocation Factor (Miller Exhibit 5 pg 6)	D29* E29
Total DSM Program Breakdown								
26 Power Manager (Residential)	504 194		$ 59 985 847	$ 12 881 566	$ 5 416 992	$ 18 298 558		
27 Power Share CallOption (Non Residential)								
28 Power Share (Non Residential)	424 800		$ 45 011 061	$ 18 313 920	$ 3 070 171	$ 21 384 091		
29 Total DSM	928 994		$ 104 996 908	$ 31 195 486	$ 8 487 164	$ 39 682 650	75 2318001%	$ 29 853 972

(1) My Home Energy Report impacts reflect cumulative capability as of end of vintage year including impacts for participants from prior vintage
(2) Total System DSM programs allocated to Residential and Non Residential based on contribution to retail system peak

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Duke Energy Carolinas LLC
For the Period June 1 2009 December 31 2015
Docket Number E 7 Sub 1073
North Carolina Net Lost Revenues Summary

	Vintage 1	2009	2010	2011	1 Mth 2012	2012	2013	2014	2015	2016	Total
						Years 1 2					
	Residential										
1	Residential Energy Assessments	$ 44 297	$ 669 511	$ 752 197	$ 66 386	$	$	$	$	$	1 532 391
2	Smart Saver® for Residential Customers	92 993	5 073 454	15 613 579	1 378 657						22 158 682
3	Low Income Energy Efficiency and Weatherization Assistance	8 111	184 626	298 617	26 374						517 729
4	Energy Efficiency Education Program for Schools	980	52 034	109 867	9 700						172 582
5	Total Lost Revenues	146 381	5 979 625	16 774 260	1 481 117						24 381 383
6	Found Residential Revenues *	18 544	103 664	149 220	12 435		(0)				283 862
7	Net Lost Residential Revenues	$ 127 836	$ 5 875 961	$ 16 625 041	$ 1 468 682	$	$ 0	$	$	$	24 097 520
	Non Residential	2009	2010	2011	1 Mth 2012	2012	2013	2014	2015	2016	Total
8	Smart Saver® for Non Residential Customers Lighting	$ 267 995	$ 1 568 968	$ 2 140 019	$ 179 572	$	$	$	$	$	4 156 555
9	Smart Saver® for Non Residential Customers Motors	1 508	34 581	47 849	4 389						88 327
10	Smart Saver® for Non Residential Customers Other Prescriptive (Process Equipment)		4	10	1						15
11	Smart Saver® for Non Residential Customers Energy Star Food Service Products	1 873	24 316	31 396	2 792						60 377
12	Smart Saver® for Non Residential Customers HVAC	4 441	61 038	114 704	10 212						190 394
13	Smart Saver® for Non Residential Customers Custom Rebate	170	129 797	423 378	38 673						592 018
14	Total Lost Revenues	275 987	1 818 705	2 757 356	235 639						5 087 686
15	Found Non Residential Revenues*	196 302	1 171 619	1 621 460	135 122		0				3 124 503
16	Net Lost Non Residential Revenues	$ 79 685	$ 647 086	$ 1 135 896	$ 100 517	$	$ (0)	$	$	$	1 963 183

	Vintage 2	2009	2010	2011 (1/2 year)	1 Mth 2012	2012	2013[a]	2014	2015	2016	Total
						Years 1 3					
	Residential										
17	Residential Energy Assessments	$	$	$ 199 106	$	$ 416 418	$ 307 665	$	$	$	923 189
18	Smart Saver® for Residential Customers			7 082 986		17 639 492	13 038 388				37 760 866
19	Low Income Energy Efficiency and Weatherization Assistance			8 604		25 327	18 723				52 654
20	Energy Efficiency Education Program for Schools			26 046		56 110	41 483				123 639
21	Total Lost Revenues			7 316 742		18 137 348	13 406 259				38 860 348
22	Found Residential Revenues *			46 409		91 169	68 377	(0)			205 955
23	Net Lost Residential Revenues	$	$	$ 7 270 333	$	$ 18 046 179	$ 13 337 882	$ 0	$	$	38 654 393
	Non Residential	2009	2010	2011 (1/2 year)	1 Mth 2012	2012	2013[a]	2014	2015	2016	Total
24	Smart Saver® for Non Residential Customers Lighting	$	$	$ 1 000 289	$	$ 2 128 947	$ 1 513 436	$	$	$	4 642 672
25	Smart Saver® for Non Residential Customers Motors			42 267		92 407	68 717				203 390
26	Smart Saver® for Non Residential Customers Other Prescriptive (Process Equipment)			6 600		16 682	12 451				35 733
27	Smart Saver® for Non Residential Customers Energy Star Food Service Products			14 315		33 354	24 736				72 405
28	Smart Saver® for Non Residential Customers HVAC			53 349		151 187	112 123				316 659
29	Smart Saver® for Non Residential Customers Custom Rebate			595 732		1 414 842	1 051 484				3 062 058
30	Smart Energy Now			124 537		846 457	627 884				1 598 878
31	Total Lost Revenues			1 837 090		4 683 875	3 410 831				9 931 796
32	Found Non Residential Revenues*			403 371		1 374 530	1 030 897	(0)			2 808 798
33	Net Lost Residential Revenues	$	$	$ 1 433 719	$	$ 3 309 345	$ 2 379 934	$ 0	$	$	7 122 998

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	Vintage 3	2009	2010	2011	1 Mth 2012	2012 (1/2 year)	2013 [b]	2014	2015 [c]	2016	Total
		Year 1 2 and 3 Actuals and Year 4 estimated									
	Residential										
34	Appliance Recycling	$	$	$	$	$ 10 266	$ 45 180	$ 46 293	$ 35 330	$	$ 137 069
35	Residential Energy Assessments					254 784	425 879	235 103	156 970		1 072 737
36	Smart Saver® for Residential Customers					6 953 370	8 775 483	3 841 455	2 603 636		22 173 943
37	Energy Efficiency Education Program for Schools					239 392	347 698	160 798	125 638		873 526
38	Home Energy Comparison Report					1 523 842					1 523 842
39	Residential Retrofit Pilot										
40	Total Lost Revenues					8 981 654	9 594 241	4 283 649	2 921 574		25 781 118
41	Found Residential Revenues *					32 870	39 068	7 442	2 511		81 891
42	Net Lost Residential Revenues	$	$	$	$	$ 8 948 784	$ 9 555 173	$ 4 276 207	$ 2 919 062	$	$ 25 699 227
	Non Residential	2009	2010	2011	1 Mth 2012	2012 (1/2 year)	2013 [b]	2014	2015 [c]	2016	Total
43	Smart Saver® for Non Residential Customers Lighting	$	$	$	$	$ 978 762	$ 1 798 752	$ 1 157 277	$ 854 416	$	$ 4 789 207
44	Smart Saver® for Non Residential Customers Motors					64 385	149 063	113 632	94 215		421 295
45	Smart Saver® for Non Residential Customers Other Prescriptive (Process Equipment)										
46	Smart Saver® for Non Residential Customers Energy Star Food Service Products					14 096	33 415	32 665	20 026		100 202
47	Smart Saver® for Non Residential Customers HVAC					70 330	119 862	75 924	54 637		320 754
48	Smart Saver® for Non Residential Customers Custom Rebate					1 656 364	3 185 396	2 077 602	1 672 959		8 592 321
49	Smart Energy Now					478 449	329 918				808 367
50	Total Lost Revenues					3 262 386	5 616 407	3 457 100	2 696 252		15 032 146
51	Found Non Residential Revenues *					445 846	761 963	145 136	78 259		1 431 205
52	Net Lost Non Residential Revenues	$	$	$	$	$ 2 816 540	$ 4 854 443	$ 3 311 964	$ 2 617 993	$	$ 13 600 940
		Year 1 and 2 actual Year 3 and 4 Estimated									
	Vintage 4	2009	2010	2011	1 Mth 2012	2012	2013 (1/2 year)	2014	2015	2016 [d]	Total
	Residential										
53	Appliance Recycling	$	$	$	$	$	$ 101 998	$ 240 815	$ 238 449	$ 136 270	$ 717 531
54	Residential Energy Assessments						178 126	358 256	354 699	175 570	1 066 651
55	Smart Saver® for Residential Customers						3 015 924	5 890 655	5 829 586	2 792 637	17 528 801
56	Low Income Energy Efficiency and Weatherization Assistance						12 238	44 504	44 084	31 908	132 734
57	Residential Neighborhood Program										
58	Energy Efficiency Education Program for Schools						136 637	246 083	243 620	105 938	732 278
59	Home Energy Comparison Report						7 042 473				7 042 473
60	Total Lost Revenues						10 487 396	6 780 312	6 710 438	3 242 322	27 220 467
61	Found Residential Revenues *						37 737	62 416	62 416	24 679	187 249
62	Net Lost Residential Revenues	$	$	$	$	$	$ 10 449 659	$ 6 717 896	$ 6 648 022	$ 3 217 642	$ 27 033 219
	Non Residential	2009	2010	2011	1 Mth 2012	2012	2013 (1/2 year)	2014	2015	2016 [d]	Total
63	Smart Saver® for Non Residential Customers Lighting	$	$	$	$	$	$ 1 382 839	$ 2 760 118	$ 2 769 348	$ 1 362 938	$ 8 275 243
64	Smart Saver® for Non Residential Customers Motors						82 592	171 814	173 141	89 216	516 762
65	Smart Saver® for Non Residential Customers Other Prescriptive (Process Equipment)						1 852	6 401	6 423	4 595	19 271
66	Smart Saver® for Non Residential Customers Energy Star Food Service Products						14 181	37 136	37 387	23 154	111 859
67	Smart Saver® for Non Residential Customers HVAC						91 920	210 322	210 626	117 888	630 757
68	Smart Saver® for Non Residential Customers Custom Rebate						1 322 386	2 957 110	2 977 938	1 630 601	8 888 034
69	Smart Energy Now										
70	Total Lost Revenues						2 895 770	6 142 901	6 174 862	3 228 392	18 441 925
71	Found Non Residential Revenues *						256 181	391 947	391 947	135 766	1 175 841
72	Net Lost Non Residential Revenues	$	$	$	$	$	$ 2 639 589	$ 5 750 954	$ 5 782 915	$ 3 092 625	$ 17 266 084

* Found Revenues see Barnes Exhibit 4

(a) Vintage 2 Year 3 Lost Revenues represent January September 24 2013 lost revenues

(b) Vintage 3 Year 2 Lost Revenues were based on Participants Jan Jun 12 for Lost revenues until Sept 24 2013 and participants July December 2012 for full year

(c) Vintage 3 Year 4 Lost Revenues represent only a 1/2 year for July December 2012 participants due to half year convention used for Year 1 lost revenues

(d) Estimated Lost Revenues were estimated by allocating estimated system Lost Revenues per kWh sales See Miller Exhibit 5 Page 5 72 9600473%

Duke Energy Carolinas, LLC
For the Period January 1, 2015 - December 31, 2015
Docket Number E-7, Sub 1073
North Carolina Net Lost Revenue Estimates for Vintages 2014 2016

Line	Residential	2014	Vintage 2014 2015	2016[a]	Total
1	Energy Assessments	$ 310,215 00	$ 234,407	497,583	$ 1,042,205
2	My Home Energy Report	6,638,564	-	-	6,638,564
3	Energy Efficient Appliances and Devices	3,901,495	1,312,802	8,015,920	13,230,217
4	HVAC Energy Efficiency	117,007	249,615	71,466	438,088
5	Appliance Recycle Program	107,899	799,949	255,086	1,162,934
6	Income Qualified Energy Efficiency and Weatherization Assistance	85 575	522,101	158,572	766,248
7	Multi-Family Energy Efficiency	209,774	471,994	574,281	1,256,049
8	Energy Efficiency Education	130,780	286,135	322,985	739,900
9	Total Lost Revenues	11,501,309	3,877,003	9,895,892	25,274,204
10	Found Residential Revenues *				
11	Net Lost Residential Revenues	**$ 11,501,309**	**$ 3,877,003**	**$ 9,895,892**	**$ 25,274,204**

	Non-Residential	2014	2015	2016[a]	Total
12	Nonresidential Smart Saver Custom Energy Assessments	$ 166,013	$ 432,469	$ 226,174	$ 824,656
13	Non Residential Smart Saver Custom	1,190,583	1,935,145	1,973,711	5,099,439
14	Energy Management Information Systems		97,730	-	97,730
15	Non Residential Smart Saver Energy Efficient Food Service Products	43,798	31,378	75,852	151,028
16	Non Residential Smart Saver Energy Efficient HVAC Products	99,002	169,337	178,827	447,166
17	Non Residential Smart Saver Energy Efficient Lighting Products	1,309,866	1,981,220	2,443,628	5,734,714
18	Non Residential Smart Saver Energy Efficient Pumps and Drives Products	94,053	151,287	172,849	418,189
19	Non Residential Smart Saver Energy Efficient IT Products	419	82,353	3,133	85,905
20	Non Residential Smart Saver Energy Efficient Process Equipment Products	19,557	2,525	28,995	51,077
21	Smart Business Energy Saver	15,777		191,647	207,424
22	Smart Energy in Offices	116,474		799,334	915,808
23	Total Lost Revenues	3,055,541	4,883,444	6 094,150	14,033,135
24	Found Non Residential Revenues *	1,512	(1,512)		(0)
25	Net Lost Non Residential Revenues	**$ 3,054,030**	**$ 4,884,956**	**$ 6,094,150**	**$ 14,033,136**

Line	Residential	2014	Vintage 2015 2015	2016[a]	Total
26	Residential Energy Assessments		$ 117,203	$ 333,375	$ 450,578
27	My Home Energy Report		7,195,091		7,195,091
28	Energy Efficient Appliances and Devices		729,170	2,257,784	2,986,954
29	HVAC Energy Efficiency		129,033	221,848	350,881
30	Appliance Recycle Program		399,974	262,360	662,334
31	Income Qualified Energy Efficiency and Weatherization Assistance		242,767	232,432	475,199
32	Multi Family Energy Efficiency		249,457	485,043	734,500
33	Energy Efficiency Education		143,069	279,113	422,182
34	Total Lost Revenues		9,205,764	4,071,955	13,277,719
35	Found Residential Revenues *				-
36	Net Lost Residential Revenues		**$ 9,205,764**	**$ 4,071,955**	**$ 13,277,719**

	Non-Residential	2014	2015	2016[a]	Total
37	Nonresidential Smart Saver Custom Energy Assessments		$ 227,042	$ 290,657	$ 517,699
38	Non Residential Smart Saver Custom		1,015,984	1,946,849	2,962,813
39	Energy Management Information Services			-	-
40	Non Residential Smart Saver Energy Efficient Food Service Products		19,705	38,177	57,882
41	Non Residential Smart Saver Energy Efficient HVAC Products		89,689	192,709	282,398
42	Non Residential Smart Saver Energy Efficient Lighting Products		1,052,048	2,383 702	3,435,750
43	Non Residential Smart Saver Energy Efficient Pumps and Drives Products		79,426	184,145	263,571
44	Non Residential Smart Saver Energy Efficient IT Products		63,320	100,222	163,542
45	Non Residential Smart Saver Energy Efficient Process Equipment Products		1,317	3,070	4,387
46	Smart Business Energy Saver			1,986,875	1,986,875
47	Smart Energy in Offices			1,070,349	1,070,349
48	Total Lost Revenues		2,548,511	8,196,755	10,745,266
49	Found Non Residential Revenues *		1,491	2,752	4,243
50	Net Lost Non-Residential Revenues		**$ 2,547,020**	**$ 8,194,003**	**$ 10,741,023**

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Line	Residential	2014	Vintage 2016 2015	2016[a]	Total
51	Residential Energy Assessments			$ 180,515	$ 180,515
52	My Home Energy Report			10,000,374	10,000,374
53	Energy Efficient Appliances and Devices			885,431	885,431
54	HVAC Energy Efficiency			79,543	79,543
55	Appliance Recycle Program			138,883	138,883
56	Income Qualified Energy Efficiency and Weatherization Assistance			117,454	117,454
57	Multi-Family Energy Efficiency			318,146	318,146
58	Energy Efficiency Education			153,421	153,421
59	Total Lost Revenues		-	11,873,767	11,873,767
60	Found Residential Revenues *				-
61	Net Lost Residential Revenues		$ -	$ 11,873,767	$ 11,873,767

	Non-Residential	2014	2015	2016[a]	Total
62	Nonresidential Smart Saver Custom Energy Assessments			$ 213,540	$ 213,540
63	Non Residential Smart Saver Custom			1,008,577	1,008,577
64	Energy Management Information Services			-	-
65	Non Residential Smart Saver Energy Efficient Food Service Products			18,783	18,783
66	Non Residential Smart Saver Energy Efficient HVAC Products			105,952	105,952
67	Non Residential Smart Saver Energy Efficient Lighting Products			1,249,795	1,249,795
68	Non Residential Smart Saver Energy Efficient Pumps and Drives Products			70,833	70,833
69	Non Residential Smart Saver Energy Efficient IT Products			74,932	74,932
70	Non Residential Smart Saver Energy Efficient Process Equipment Products			1,497	1,497
71	Small Business Energy Saver			1,210,438	1,210,438
72	Smart Energy in Offices			792,359	792,359
73	Total Lost Revenues			4,746,706	4 746,706
74	Found Non Residential Revenues *			1,391	1,391
75	Net Lost Non-Residential Revenues			$ 4,745,315	$ 4,745,315

(a) Estimated Lost Revenues were estimated by allocating estimated system Lost Revenues per kWh sales See Miller Exhibit 5 Page 6

72 9600473%

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Duke Energy Carolinas, LLC
For the Period June 1, 2009 - December 31, 2013
Docket Number E-7 Sub 1073
Actual Program Costs for SAW programs

Line	SAW PROGRAMS		Carolinas System Costs - 6/1/2009 - 12/31/2009	Carolinas System Costs - 12 Months Ended 12/31/2010	Carolinas System Costs - 12 Months Ended 12/31/2011	Carolinas System Costs - 12 Months Ended 12/31/2012	Carolinas System - 12 Months Ended 12/31/2013
1	Residential Energy Assessments		$ 2,003,480	$ 2,632,637	$ 2,668,577	$ 2,807,908	$ 2,709,166
2	Residential Home Retrofit		-	-	118,811	157,393	5,792
3	Residential Neighborhood Program		-	-	-	110,001	600,407
4	Home Energy Comparison Report		-	-	711,131	3,012,860	7,441,231
5	Residential Smart Saver		2,639,505	25,972,993	23,006,146	19,502,040	14,341,695
6	Appliance Recycle Program			-	-	302,588	1,808,141
7	Low Income Services		106,530	396,691	1,296	20,167	9,812
8	Energy Efficiency Education		2,137,748	2,273,809	791,598	2,893,919	2,030,442
9	Nonresidential Energy Assessments		161,826	1,110,853	2,519,394	1,467,001	750,949
10	Nonresidential Smart Energy Now		-	-	2,069,672	1,062,135	1,477,300 (1)
11	Nonresidential Smart Saver		1,831,197	6,988,330	12,145,531	18,984,876	17,610,411
12	Power Manager		2,322,903	9,422,232	14,392,260	12,541,114	12,715,817
13	Power Share		759,147	7,964,184	13,774,440	15,379,288	15,005,089
14	**Total Energy Efficiency & Demand Side Program Costs**	Sum (Lines 1-13)	**$ 11,962,336**	**$ 56,761,729**	**$ 72,198,856**	**$ 78,241,290**	**$ 76,506,252**
15	NC Allocation Factor for EE programs	Miller Exhibit 5	73 0077318%	72 7072722%	72 6972151%	72 7194575%	72 9600473%
16	NC Allocation Factor for DSM programs-Residential	Miller Exhibit 5	33 9010659%	34 4404513%	32 2293181%	34 8388691%	34 0209980%
17	NC Allocation Factor for DSM programs-Non-Residential	Miller Exhibit 5	39 9179344%	40 3489126%	42 2350050%	39 8808428%	41 2108021%

			NC Allocated Costs - 6/1/2009 - 12/31/2009	NC Allocated Costs - 12 Months Ended 12/31/2010	NC Allocated Costs - 12 Months Ended 12/31/2011	NC Allocated Costs - 12 Months Ended 12/31/2012	NC Allocated - 12 Months Ended 12/31/2013
18	Residential Energy Assessments	Line 1*Line 15	$ 1,462,695	$ 1,914,119	$ 1,939,981	$ 2,041,895	$ 1,976,609
19	Residential Home Retrofit	Line 2*Line 15	-	-	86,372	114,455	4,226
20	Residential Neighborhood Program	Line 3*Line 15	-	-	-	79,992	438,057
21	Home Energy Comparison Report	Line 4*Line 15	-	-	516,972	2,190,935	5,429,126
22	Residential Smart Saver	Line 5*Line 15	1,927,043	18,884,255	16,724,827	14,181,778	10,463,707
23	Appliance Recycle Program	Line 6*Line 15	-	-	-	220,040	1,319,221
24	Low Income Services	Line 7*Line 15	77,775	288,423	942	14,665	7,159
25	Energy Efficiency Education	Line 8*Line 15	1,560,721	1,653,224	575,470	2,104,442	1,481,411
26	Nonresidential Energy Assessments	Line 9*Line 15	118,145	807,671	1,831,529	1,066,795	547,893
27	Nonresidential Smart Energy Now	Line 10*Line 15	-	-	1,504,594	772,379	1,077,839
28	Nonresidential Smart Saver	Line 11 * Line 15	1,336,915	5,081,024	8,829,463	13,805,699	12,848,564
29	Power Manager	(Line 12+ Line 13)*Line 16	1,044,848	5,987,960	9,077,935	9,727,152	9,430,929
30	Power Share	(Line 12+ Line 13)*Line 17	1,230,291	7,015,230	11,896,207	11,134,892	11,424,008
31	**Total Energy Efficiency & Demand Side Program Costs**	Sum (Lines 18-30)	**$ 8,758,434**	**$ 41,631,906**	**$ 52,984,294**	**$ 57,455,121**	**$ 56,448,748**

(1) Represents January and February 2014 program costs related to the Smart Energy in Offices pilot program

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Duke Energy Carolinas, LLC
For the Period January 1, 2014 - December 31, 2014
Docket Number E-7 Sub 1073
Actual Program Costs for Vintage Years 2014

			Carolinas System - 12 Months Ended 12/31/2014
1	Residential Energy Assessments		$ 3,605,737
2	My Home Energy Report		8,285,066
3	Energy Efficient Appliances and Devices		14,738,129
4	HVAC Energy Efficiency		4,786,807
5	Appliance Recycle Program		1,515,867
6	Income Qualified Energy Efficiency and Weatherization Assistance		1,917,192
7	Multi family Energy Efficiency		1,442,533
8	Energy Efficiency Education		1,963,153
9	Nonresidential Smart Saver Custom Energy Assessments		1,458,195
10	Energy Management Information Systems		74,855
11	Non-Residential Smart Saver Custom		8,136,712
12	Non-Residential Energy Efficient Food Service Products		199,350
13	Non-Residential Smart Saver Energy Efficient HVAC Products		815,339
14	Non-Residential Smart Saver Energy Efficient Lighting Products		6,727,675
15	Nonresidential Energy Efficient Pumps and Drives Products		584,874
16	Nonresidential Energy Efficient ITEE		25,730
17	Nonresidential Energy Efficient Process Equipment Products		89,809
18	Smart Energy In Offices		1,156,497
19	Small Business Energy Saver		1,026,607
20	Power Manager		15,662,693
21	Power Share		15,520,492
22	**Total Energy Efficiency & Demand Side Program Costs**	sum(Lines 1-20)	**$ 89,733,313**

23	NC Allocation Factor for EE programs	Miller Exhibit 5 Pg. 6, Line 4	72 9600473%
24	NC Allocation Factor for DSM programs-Residential	Miller Exhibit 5 Pg 6, Line 9	34 0209980%
25	NC Allocation Factor for DSM programs-Non-Residential	Miller Exhibit 5 Pg 6, Line 10	41 2108021%

			NC Allocated - 12 Months Ended 12/31/2014
26	Residential Energy Assessments	Line 1 * Line 22	$ 2,630,748
27	My Home Energy Report	Line 2 * Line 22	6,044,788
28	Energy Efficient Appliances and Devices	Line 3 * Line 22	10,752,946
29	HVAC Energy Efficiency	Line 4 * Line 22	3,492,457
30	Appliance Recycle Program	Line 5 * Line 22	1,105,977
31	Income Qualified Energy Efficiency and Weatherization Assistance	Line 6 * Line 22	1,398,784
32	Multi family Energy Efficiency	Line 7 * Line 22	1,052,473
33	Energy Efficiency Education	Line 8 * Line 22	1,432,317
34	Nonresidential Smart Saver Custom Energy Assessments	Line 9 * Line 22	1,063,900
35	Energy Management Information Systems	Line 10 * Line 22	54,614
36	Non-Residential Smart Saver Custom	Line 11 * Line 22	5,936,549
37	Non-Residential Energy Efficient Food Service Products	Line 12 * Line 22	145,446
38	Non-Residential Smart Saver Energy Efficient HVAC Products	Line 13 * Line 22	594,872
39	Non-Residential Smart Saver Energy Efficient Lighting Products	Line 14 * Line 22	4,908,515
40	Nonresidential Energy Efficient Pumps and Drives Products	Line 15 * Line 22	426,724
41	Nonresidential Energy Efficient ITEE	Line 16 * Line 22	18,773
42	Nonresidential Energy Efficient Process Equipment Products	Line 17 * Line 22	65,525
43	Smart Energy In Offices	Line 18 * Line 22	843,781
44	Small Business Energy Saver	Line 19 * Line 22	749,013
45	Power Manager	(Line 19 + Line 20)* Line 23	10,608,831
46	Power Share	(Line 19 + Line 20) * Line 24	12,850,841
46	**Total Energy Efficiency & Demand Side Program Costs**	Sum (Lines 25-44)	**$ 66,177,873**

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Duke Energy Carolinas, LLC
June 2009 - December 2014 Actuals
January 2015 - December 2016 Estimates
Docket Number E-7, Sub 1073
North Carolina Found Revenues

	Actual/Reported KWH						Estimated KWH		
	2009	2010	2011	2012	2013	2014	2015	2016	Decision Tree Node
Boilers (unmetered)	575,990						-	-	Box 6 - include
Boilers (metered)		-	-		-	-	-	-	Box 6 - include
Economic Development	93,990,900	104,307,244	117,082,542	416,539,426	136,948,900	166,234,550			Box 5 exclude
Plug in Electric Charging Station Pilot			8,246	218,311	238,696	238,696			Box 3 exclude
Food Service	693,553	949,022	723,338	1,204,245	712,711				Box 6 include
Process Heat	31,014	1,783,740	2,973,046	1,002,303	162,109	-			Box 6 include
Lighting									
Residential	102,492	169,991	162,984	76,420	93,396	105,354	105,354	105,354	Box 6 include
Non Residential (Regulated)	112,286	175,553	129,669	77,433	60,528	95,391	143,087	143,087	Box 6 include
MV to LED Credit Residential (Regulated)	-			-	-	(156,381)	(205,208)	(205,208)	Box 6 - include
MV to LED Credit - Non-Residential (Regulated)		-	-			(104,331)	(136,907)	(136,907)	Box 6 include
Non Residential (Non Regulated)	3,630	3,630	2,146	0	0	0			Box 6 include
Total KWH	95,509,866	107,389,180	121,081,971	419,118,139	138,216,340	166,413,279	(93,675)	(93,675)	
Total KWH Included	1,518,966	3,081,936	3,991,183	2,360,401	1,028,744	(59,967)	(93,675)	(93,675)	
Total KWH Included (net of Free Riders 15%)	$ 1,291,121	$ 2,619,646	$ 3,392,506	$ 2,006,341	$ 874,432	$ (50,972)	$ (79,624)	$ (79,624)	
Annualized Found Revenue - Non Residential	$ 509,839	$ 1,111,621	$ 1,374,530	$ 967,572	$ 391,947	$ (3,615)	$ 2,752	$ 2,567	
Annualized Found Revenue Residential	$ 55,308	$ 93,912	$ 91,169	$ 49,611	$ 62,416	$ (34,952)	$ (70,908)	$ (68,792)	

	2009	2010	2011	2012	2013	2014	2015	2016
Vintage 1 2009 Non Res	$ 196,302	$ 509,839	$ 509,839	313,537				
Vintage 1 2010 Non Res		$ 661,779	$ 1,111,621	$ 1,111,621	449,841			
Vintage 2011 - Non Res			$ 403,371	$ 1,374,530	$ 1,374,530	971,160		
Vintage 2012 Non Res				$ 445,846	$ 967,572	967,572	521,726	
Vintage 2013 - Non Res					$ 256,181	391,947	391,947	135,766
Vintage 2014 - Non Res						1,512	(3,615)	(3,615)
Vintage 2015 Non Res							1,491	2,752
Vintage 2016 - Non Res								1,391
Vintage 2017 - Non Res								
Net Negative Found Revenues to Zero*								
Rate Case Adjustment - Non Res **				(1,290,036)	(999,083)	$ (1,793,596)	$ (443,467)	$
Subtotal Non Res	$ 196,302	1,171,619	2,024,831	1,955,498	2,049,042	538,594	468,081	136,294
Vintage 1 -2009 - Residential	$ 18,544	$ 55,308	$ 55,308	36,764				
Vintage 1 2010 Residential		$ 48,357	$ 93,912	$ 93,912	45,556			
Vintage 2011 - Res			$ 46,409	$ 91,169	$ 91,169	44,760		
Vintage 2012 Res				$ 32,870	$ 49,611	49,611	16,741	
Vintage 2013 - Res					$ 37,737	62,416	62,416	24,679
Vintage 2014 Res						(12,947)	(34,952)	(34,952)
Vintage 2015 Res							(38,408)	(70,908)
Vintage 2016 - Res								(37,262)
Vintage 2017 Res								
Net Negative Found Revenues to Zero*								
Rate Case Adjustment - Residential **				(118,241)	(78,890)	$ (86,929)	$ (14,230)	$
Subtotal Residential	$ 18,544	$ 103,664	$ 195,629	$ 136,474	$ 145,182	$ 56,911	$ (8,433)	$ (118,442)
Total Found Revenues	$ 214,846	$ 1,275,283	$ 2,220,460	$ 2,091,972	$ 2,194,224	$ 595,505	$ 459,649	$ 17,851

* Eliminates the inclusion of total negative found revenues at the Residential and Non-Residential Level
** Removes amounts to be recovered in base rates

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Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 7
Docket Number E-7 Sub 1073
Exhibit Summary for Rider EE Exhibits and Factors

Residential Billing Factors

Residential Billing Factor for Rider 7 True-up (EMF) Components

Line					
1	Vintage 1 EE/DSM True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 1, Line 11	$	1,597,468	
2	Vintage 2 EE/DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg 2, Line 11		3,130,709	
3	Vintage 3 EE/DSM True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 3, Line 11		(4,069,214)	
4	Vintage 4 EE/DSM True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 4, Line 11		4,101,198	
5	Year 2014 EE/DSM True Up (EMF) Revenue Requirement	Miller Exhibit 2 pg 5, Line 15		672,387	
6	Total True up (EMF) Revenue Requirement	Sum Lines 1 5	$	5,432,048	
7	Projected NC Residential Sales (kWh) for rate period	Miller Exhibit 6 pg 1, Line 1		21,674,738,000	
8	*SAW EE/DSM Revenue Requirement EMF Residential Rider EE (cents per kWh)*	Line 6 / Line 7 * 100		**0 0251**	Application

Residential Billing Factor for Rider 7 Prospective Components

9	Vintage 2014 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 5, Line 15	$	9,088,523	
10	Vintage 2015 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 6, Line 1		4,071,955	
11	Vintage 2016 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 7, Line 11		58,886,406	
12	Total Prospective Revenue Requirement	Sum Lines 9-11	$	72,046,884	
13	Projected NC Residential Sales (kWh) for rate period	Miller Exhibit 6 pg 1, Line 1		21,674,738,000	
14	*SAW EE/DSM Revenue Requirement Prospective Residential Rider EE (cents per kWh)*	Line 12 / Line 13 * 100		**0.3324**	Application

Total Revenue Requirements in Rider 7 from Residential Customers

15	Total True-up (EMF) Revenue Requirement	Line 6	$	5,432,048	
16	Total Prospective Revenue Requirement	Line 12		72,046,884	
17	***Total EE/DSM Revenue Requirement for Residential Rider EE***	Line 15 + Line 16	$	**77,478,932**	
18	***Total EE/DSM Revenue Requirement for Residential Rider EE (cents per kWh)***	Line 8 + Line 14		**0 3575**	

Non-Residential Billing Factors for Rider 7 True-up (EMF) Components

Line					
	SAW EE Revenue Requirements True-up (EMF)				
1	Vintage 1 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg 1, Line 20	$	583,474	
2	Projected Vintage 1 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		22,972,364,776	
3	*SAW EE Revenue Requirement Vintage 1 EMF Non-Residential Rider EE (cents per kWh)*	Line 1/Line 2 * 100		**0.0025**	Application
4	Vintage 1 DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg 1, Line 29	$	370,672	
5	Projected Vintage 1 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		22,484,503,238	
6	*SAW DSM Revenue Requirement Vintage 1 EMF Non-Residential Rider EE (cents per kWh)*	Line 4/Line 5 * 100		**0.0016**	Application
7	Vintage 2 EE True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 2, Line 20	$	3,410,457	
8	Projected Vintage 2 EE Participants NC Non Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		23,295,755,187	
9	*SAW EE Revenue Requirement Vintage 2 EMF Non-Residential Rider EE (cents per kWh)*	Line 7/Line 8 * 100		**0 0146**	Application
10	Vintage 2 DSM True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 2, Line 29	$	408,431	
11	Projected Vintage 2 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		22,950,230,628	
12	*SAW DSM Revenue Requirement Vintage 2 EMF Non Residential Rider EE (cents per kWh)*	Line 10/Line 11 * 100		**0.0018**	Application
13	Vintage 3 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg 3, Line 20	$	6,102,275	
14	Projected Vintage 3 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		23,556,939,761	
15	*SAW EE Revenue Requirement Vintage 3 EMF Non Residential Rider EE (cents per kWh)*	Line 13/Line 14 * 100		**0.0259**	Application

Non-Residential Billing Factors Continued

16	Vintage 3 DSM True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 3, Line 29	$	(182,448)	
17	Projected Vintage 3 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		23,100,220,941	
18	*SAW DSM Revenue Requirement Vintage 3 EMF Non-Residential Rider EE (cents per kWh)*	Line 16/Line 17 * 100		**(0.0008)**	Application
19	Vintage 4 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg 4, Line 20	$	7,906,252	
20	Projected Vintage 4 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		23,966,011,232	
21	*SAW EE Revenue Requirement Vintage 4 EMF Non-Residential Rider EE (cents per kWh)*	Line 19/Line 20 * 100		**0.0330**	Application
22	Vintage 4 DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg 4, Line 29	$	77,767	
23	Projected Vintage 4 DSM Participants NC Non Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		23,215,694,176	
24	*SAW DSM Revenue Requirement Vintage 4 EMF Non Residential Rider EE (cents per kWh)*	Line 22/Line 23 * 100		**0 0003**	Application
25	Year 2014 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg 5, Line 25	$	3,545,604	
26	Projected Vintage 4 EE Participants NC Non Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 2, Line 17		23,824,291,077	
27	*SAW EE Revenue Requirement Vintage 4 EMF Non Residential Rider EE (cents per kWh)*	Line 25/Line 26 * 100		**0.0149**	Application
28	Year 2014 DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg 5, Line 35	$	(1,005,411)	
29	Projected Vintage 4 DSM Participants NC Non Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 2, Line 17		23,138,123,262	
30	*SAW DSM Revenue Requirement Vintage 4 EMF Non-Residential Rider EE (cents per kWh)*	Line 28/Line 29 * 100		**(0.0043)**	Application

Non-Residential Billing Factors for Rider 7 Prospective Components

31	Vintage 2014 EE Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 5, Line 25	$	6,094,150	
32	Projected Program Year 2014 EE Participants NC Non Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 2, Line 17		23,824,291,077	
33	*EE Revenue Requirement Vintage 2014 Prospective Component for Non-Residential Rider EE (cents per kWh)*	Line 31/Line 32 * 100		**0 0256**	Application
34	Vintage 2015 EE Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 6, Line 4	$	8,194,003	
35	Projected Program Year 2015 EE Participants NC Non Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 2, Line 17		23,753,678,227	
36	*EE Revenue Requirement Vintage 2015 Prospective Component for Non-Residential Rider EE (cents per kWh)*	Line 34/Line 35 * 100		**0 0345**	Application
37	Vintage 2016 EE Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 7, Line 18	$	51,408,650	
38	Projected Program Year 2016 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 2, Line 17		23,753,678,227	
39	*EE Revenue Requirement Vintage 2016 Prospective Component for Non-Residential Rider EE (cents per kWh)*	Line 37/Line 38 * 100		**0.2164**	Application
40	Vintage 2016 DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 7, Line 25	$	16,375,648	
41	Projected Vintage 2016 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 2, Line 21		23,082,735,561	
42	*DSM Revenue Requirement Vintage 2016 Prospective Component for Non Residential Rider EE (cents per kWh)*	Line 40/Line 41 * 100		**0.0709**	Application
	Total EMV Rate			**0.0895**	
	Total Prospective Rate			**0.3474**	

Total Revenue Requirements in Rider 7 from Non-Residential Customers

43	Vintage 1 EE True-up (EMF) Revenue Requirement	Line 1	$	583,474	
44	Vintage 1 DSM True up (EMF) Revenue Requirement	Line 4		370,672	
45	Vintage 2 EE True-up (EMF) Revenue Requirement	Line 7		3,410,457	
46	Vintage 2 DSM True up (EMF) Revenue Requirement	Line 10		408,431	
47	Vintage 3 EE True-up (EMF) Revenue Requirement	Line 13		6,102,275	
48	Vintage 3 DSM True-up (EMF) Revenue Requirement	Line 16		(182,448)	
49	Vintage 4 EE True up (EMF) Revenue Requirement	Line 19		7,906,252	
50	Vintage 4 DSM True up (EMF) Revenue Requirement	Line 22		77,767	
51	Year 2014 EE True-up (EMF) Revenue Requirement	Line 25		3,545,604	
52	Year 2014 DSM True up (EMF) Revenue Requirement	Line 28		(1,005,411)	
53	Vintage 2014 EE Prospective Amounts Revenue Requirement	Line 31		6,094,150	
54	Vintage 2015 EE Prospective Amounts Revenue Requirement	Line 34		8,194,003	
55	Vintage 2016 EE Prospective Amounts Revenue Requirement	Line 37		51,408,650	
56	Vintage 2016 DSM Prospective Amounts Revenue Requirement	Line 40		16,375,648	
	Total Non-Residential Revenue Requirement in Rider 7	Sum (Lines 43 56)	**$**	**103,289,524**	Application

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Duke Energy Carolinas, LLC
EE/DSM Vintage 1 (June 1, 2009 - December 31, 2010)
Docket Number E-7 Sub 1073
True-Up of Avoided Cost and Lost Revenues Revenue Requirements For Vintage 1

RESIDENTIAL

Line			Rider 4 DSM True up of Original Filing, EE Vintage 1, Year 1 and 2 True up	Rider 5 2014 True Up	Rider 6 Implementation of Earnings Cap	Rider 6 2015 True up of 85% to 100%	Rider 7 2016 True up		Vintage 1 - Residential
1	EE Avoided Cost Component	Barnes Exhibit 1 pg 1 and 2	30,387,136	(448,752)		5,283,244			35,221,629
2	DSM Avoided Cost Component	Barnes Exhibit 1 pg 1 and 2	8,225,364			1,451,535	(11,701)	1	9,665,198
3	Total EE and DSM Avoided Cost	Line 1 + Line 2	38,612,500	(448,752)	-	6,734,779	(11,701)		44,886,827
4	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 35			(6,558,951)		387,509	2	(6,171,442)
5	DSM/EE Avoided Cost Component adjusted for Cap	Line 3 + Line 4	38,612,500	(448,752)	(6,558,951)	6,734,779	375,808		38,715,385
6	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 017953	1 001352	1 001352	1 001352		various
7	Adjusted Avoided Cost Revenue Requirement	Line 5 * Line 6	39,946,717	(456,808)	(6,567,819)	6,743,885	376,316		40,042,291
8	Residential Lost Revenues	Barnes Exhibit 2 pg 1, Line 7	20,983,465	(500,574)		3,614,629			24,097,520
9	Total Residential Revenue Requirement	Line 7 + Line 8	60,930,181	(957,381)	(6,567,819)	10,358,513	376,316		64,139,811
10	Total Collected for Vintage 1 (Riders 1-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 1 + Line 7							62,542,343
11	**Residential EE/DSM Revenue Requirement True-up Amount**	Line 9 - Line 10							1,597,468

NON-RESIDENTIAL

Energy Efficiency

			Rider 4 Vintage 1, Year 1 and Year 2 Net Lost Revenue True Up	Rider 5 2014 True up	Rider 6 Implementation of Earnings Cap and True up	Rider 6 2015 True up of 85% to 100%	Rider 7 2016 True up		Vintage 1 - EE
12	Non-Residential EE Avoided Cost Component	Barnes Exhibit 1 pg 1 and 2	16,001,071		(3)	2,823,718			18,824,786
13	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 36			(2,799,117)		150,944	2	(2,648,173)
14	EE Avoided Cost Component Adjusted for Cap	Line 12 + Line 13	16,001,071		(2,799,120)	2,823,718	150,944		16,176,613
15	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 017953	1 001352	1 001352	1 001352		various
16	Total Non Residential EE Avoided Cost Revenue Requirement	Line 14 * Line 15	16,553,972		(2,802,904)	2,827,536	151,148		16,729,751
17	Non Residential Lost Revenues	Barnes Exhibit 2 pg 1, Line 16	1,666,731	1,974		294,478			1,963,183
18	Total Non Residential EE Revenue Requirement	Line 16 + Line 17	18 220,703	1,974	(2,802,904)	3,122,014	151,148		18,692,934
19	Total Collected for Vintage 1 (Riders 1 5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 14							18,109,461
20	Non-Residential EE Revenue Requirement True up Amount	Line 18 Line 19	18,220,703	1,974	(2,802,904)	3,122,014	151,148		583,474
21	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1, Line 21							22,972,364,776
22	**Non-Residential Rider EE (cents per kWh)**	Line 20/Line 21*100							**0.0025**

DSM

			Rider 4 2013 True up of Original Filing	Rider 5 2014 True up	Rider 6 2015 True up of Costs	Rider 6 2015 True up of 85% to 100%	Rider 7 2016 True up		Vintage 1 - DSM
23	Non Residential DSM Avoided Cost Component	Barnes Exhibit 1 pg 1 and 2	$ 9,644,425			1,701,957	$ (13,709)	1	$ 11,332,673
24	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 37			(1,629,074)		68,880	2	(1,560,194)
25	Non Residential DSM Avoided Cost Component adjusted for Cap	Line 23 + Line 24	9,644,425		(1,629,074)	1,701,957	55,171		9,772,479
26	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 017953	1 001352	1 001352	1 001352		various
27	Total Non-Residential DSM Revenue Requirement	Line 25 * Line 26	9,977,678	-	(1,631,277)	1,704,258	55,246		10,105,906
28	Total Collected for Vintage 1 (Riders 1 5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 20							9,735,234
29	Non Residential DSM Revenue Requirement True-up Amount	Line 27 -Line 28							370,672
30	Projected NC Non Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1, Line 21							22,484,503,238
31	**Non-Residential Rider EE (cents per kWh)**	Line 29/Line 30*100							**0.0016**

1 Adjustments to DSM participation were identified and trued up in 2014

2 The cap adjustment factor was updated in Miller Exhibit 4 for actual 2014 collections and estimated 2015 collections

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Duke Energy Carolinas, LLC
EE/DSM Vintage 2 (January 1, 2011 - December 31, 2011)
Docket Number E-7, Sub 1073
True-Up of Avoided Cost and Lost Revenues Revenue Requirements For Vintage 2

RESIDENTIAL

Line			Rider 3	Rider 4	Rider 5	Rider 6	Rider 6	Rider 7		Vintage 2 - Residential
			Year 2 Lost Revenues	DSM True up of Original Filing, EE Vintage 1, Year 1 and 2 True up	2014 True up	Implementation of Earnings Cap and Lost Revenue True up	2015 True up of 85% to 100%	2016 True up		
1	EE Avoided Cost Component	Barnes Exhibit 1 pg 3, Line 7		26,136,185	(170,313)		4,582,213			30,548,085
2	DSM Avoided Cost Component	Barnes Exhibit 1 pg 3, Line 8		8,254,399			1,456,659	(9,391)	1	9,701,667
3	Total EE and DSM Avoided Cost	Line 1 + Line 2		34,390,584	(170,313)		6,038,871	(9,391)		40,249,752
4	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 35				(6,424,112)		2,317,861	2	(4,106,251)
5	DSM/FE Avoided Cost Component adjusted for Cap	Line 3 + Line 4		34,390,584	(170,313)	(6,424,112)	6,038,871	2,308,470		36,143,501
6	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13		1 034554	1 017953	1 001352	1 001352	1 001352		various
7	Adjusted Avoided Cost Revenue Requirement	Line 5 * Line 6		35,578,917	(173,370)	(6,432,797)	6,047,036	2 311,591		37,331,376
8	Residential Lost Revenues	Barnes Exhibit 2 pg 1	8,004,542	6,258,786	7,255,706	13,337,882	3,797,477		3	38,654,393
9	Total Residential Revenue Requirement	Line 7 + Line 8	8,004,542	41,837,703	7,082,336	6,905,085	9,844,513	2,311,591		75,985,769
10	Total Collected for Vintage 2 (Riders 2 5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 2 + Line 8								72,855,560
11	**Residential EE/DSM Revenue Requirement True-up Amount**	Line 9 - Line 10								3,130,209

See Miller Exhibit A for rate

NON-RESIDENTIAL
Energy Efficiency

			Rider 3	Rider 4	Rider 5	Rider 6	Rider 6	Rider 7		Vintage 2 - EE
			Year 2 Lost Revenues	Vintage 2 True up, and Year 1 Net Lost Revenue True Up	2014 True up	Implementation of Earnings Cap and True up	2015 True up of 85% to 100%	2016 True up		
12	Non-Residential EE Avoided Cost Component	Barnes Exhibit 1 pg 3, Line 16		18,308,367			3,230,888	973,347	1	22,512,602
13	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 36				(3,144,091)		391,618	2	(2,752,473)
14	EE Avoided Cost Component Adjusted for Cap	Line 12 + Line 13		18,308,367	-	(3,144,091)	3,230,888	1,364,965		19,760,129
15	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13		1 034554	1 017953	1 001352	1 001352	1 001352		various
16	Total Non Residential EE Avoided Cost Revenue Requirement	Line 14 * Line 15		18,940,994		(3,148,347)	3,235,256	1,366,810		20,394,719
17	Non-Residential Lost Revenues	Barnes Exhibit 2 pg 1	951,833	1,158,807	1,388,161	1,974,320	617,436	1,032,441	3	7,122,998
18	Total Non-Residential EE Revenue Requirement	Line 16 + Line 17	951,833	20,099,801	1,388,161	(1,174,022)	3,852,692	2,399,251		27,517,717
19	Total Collected for Vintage 2 (Riders 2-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 15								24,107,260
20	Non Residential EE Revenue Requirement True up Amount	Line 18 - Line 19	951,833	20,099,801	1,388,161	(1,174,022)	3,852,692	2,399,251		3,410,457
21	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1, Line 21								23,295,755,187
22	**Non-Residential Rider EE (cents per kWh)**	Line 20/Line 21*100								**0.0146**

DSM

			Rider 4	Rider 5	Rider 6	Rider 6	Rider 7		Vintage 2 - DSM
			2013 True up of Original Filing & year 1 Lost Revenues	2014 True up	2015 True up of Costs	2015 True up of 85% to 100%	2016 True up		
23	Non Residential DSM Avoided Cost Component	Barnes Exhibit 1 pg 3 Line 17	$ 10,817,002			1,908,883	$ (12,307)	1	$ 12,713,578
24	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 37			(1,823,758)		72,441	2	(1,751,317)
25	Non-Residential DSM Avoided Cost Component adjusted for Cap	Line 23 + Line 24	10,817,002	-	(1,823,758)	1,908,883	60,134		10,962,261
26	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 017953	1 001352	1 001352	1 001352		various
27	Total Non Residential DSM Revenue Requirement	Line 25 * Line 26	11 190,773		(1,826,224)	1 911,464	60,215		11,336,228
28	Total Collected for Vintage 2 (Riders 2-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 21							10,927,797
29	Non-Residential DSM Revenue Requirement True-up Amount	Line 27 Line 28							408,431
30	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1, Line 21							22,950,230,628
31	**Non-Residential Rider EE (cents per kWh)**	Line 29/Line 30*100							**0.0018**

1 Adjustments to DSM participation were identified and trued up in 2014 The Company has also received final EM&V and participation for EE programs
2 The cap adjustment factor was updated in Miller Exhibit 4 for actual 2014 collections and estimated 2015 collections
3 Lost Revenue estimates have been subject to a final true-up subject to results of EM&V and participation Year by year details are shown at Barnes Exhibit 2 page 1 component can be found at Barnes Exhibit 1, page 3 and revised details of the lost revenue estimate can be found in Barnes Exhibit 2, page 1

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Duke Energy Carolinas, LLC
EE/DSM Vintage 3 (January 1, 2012 - December 31, 2012)
Docket Number E-7, Sub 1073
True-Up of Avoided Cost Revenue Requirements For Vintage 3
True-up of Lost Revenues for Years 1, 2 and 3

Line	*RESIDENTIAL*		Rider 5 True up of Original Filing & Year 3 Lost Rev Estimate	Rider 4 2013 Year 2 Lost Revenues	Rider 6 2014 True up of Costs, year 1 & 2 & Year 3 Lost Revenues	Rider 6 2015 Y4 Lost Revenue Estimate	Rider 6 2015 True up of 85% to 100%	Rider 7 2016 True up		Vintage 3 - Residential
1	EE Avoided Cost Component	Barnes Exhibit 1 pg 4, Line 8	19,337,997		24,489		3,412,588	(177,138)	1	22,597,936
2	DSM Avoided Cost Component	Barnes Exhibit 1 pg 4, Line 9	8,254,399		2,954,233		1,456,659	(7,883)	1	12,657,408
3	Total EE and DSM Avoided Cost	Line 1 + Line 2	27,592,397	0	2,978,722	0	4,869,246	(185,021)		35,255,344
4	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 35	-		(4,744,563)			(935 759)	2	(5,680,322)
5	DSM/EE Avoided Cost Component adjusted for Cap	Line 3 + Line 4	27,592,397	-	(1,765,841)	-	4,869,246	(1,120,780)		29,575,022
6	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 017953	1 034554	1 001352	1 001352	1 001352	1 001352		various
7	Adjusted Avoided Cost Revenue Requirement	Line 5 * Line 6	28,087,763		(1,768,228)		4,875,830	(1,122,295)		30,073,069
8	Residential Lost Revenues	Barnes Exhibit 2 pg 1	10,158,215	3,047,820	5,574,330	1,595,954	2,330,477	2,992,431	3	25,699,227
9	Total Residential Revenue Requirement	Line 7 + Line 8	38,245,978	3,047,820	3,806,101	1 595,954	7,206,306	1,870,136		55,772,295
10	Total Collected for Vintage 3 (Riders 3-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 3 + Line 9								59,841,509
11	**Residential EE/DSM Revenue Requirement True-up Amount**	Line 9 - Line 10								(4,069,214)

See Miller Exhibit A for rate

	NON-RESIDENTIAL		Rider 5 True up of Original Filing & Year 3 Lost Rev Estimate	Rider 4 2013 Year 2 Lost Revenues	Rider 6 2014 True up of Costs, year 1 & 2 & Year 3 Lost Revenues	Rider 6 2015 Y4 Lost Revenue Estimate	Rider 6 2015 True up of 85% to 100%	Rider 7 2016 True up		Vintage 3 - Non Residential EE
	Energy Efficiency									
12	Non-Residential EE Avoided Cost Component	Barnes Exhibit 1 pg 4, Line 17	27,084,888		715,578		4,779,686	516,587	1	33,096,739
13	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 36			(4,657,296)			58,925	2	(4,598,371)
14	EE Avoided Cost Component Adjusted for Cap	Line 12 + Line 13	27,084,888	-	(3,941,718)	-	4,779,686	575,512		28,498,368
15	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 034554	1 017953	1 001352	1 001352	1 001352		various
16	Total Non-Residential EE Avoided Cost Revenue Requirement	Line 14 * Line 15	28,020,779	-	(4,012,484)	-	4,786,148	576,290		29,370,734
17	Non-Residential Lost Revenues	Barnes Exhibit 2 pg 1	3,981,059	1,418,749	3,017,303	1,205,284	952,907	3,025,638	3	13,600,940
18	Total Non Residential EE Revenue Requirement	Line 16 + Line 17	32,001 838 3	1,418,749	(995,181)	1,205,284	5,739,055	3,601,928		42,971 674
19	Total Collected for Vintage 3 (Riders 3 5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 16								36,869,399
20	Non Residential EE Revenue Requirement True up Amount	Line 18 Line 19								6,107,275
21	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1, Line 21								23,556,939,761
22	**Non-Residential Rider EE (cents per kWh)**	Line 20/Line 21*100								**0.0259**

Note Vintage 3 Year 3 lost revenues will be trued up in Rider 7

	DSM		Rider 5 True up of Original Filing & Year 3 Lost Rev Estimate	Rider 4 2013 Year 2 Lost Revenues	Rider 6 2014 True up of Costs, year 1 & 2 & Year 3 Lost Revenues	Rider 6 Implementation of Earnings Cap	Rider 6 2015 True up of 85% to 100%	Rider 7 2016 True up		Vintage 3 Non Residential DSM
23	Non-Residential DSM Avoided Cost Component	Barnes Exhibit 1 pg 4	10 817,002		1,772,361		1,908,883	(9,025)	1	14,489,221
24	Cap Adjustment factor	Miller Exhibit 4				(1,860,003)		(246,969)	2	(2,106,972)
25	Non-Residential DSM Avoided Cost Component adjusted for Cap	Line 23 + Line 24	10,817,002	-	1,772,361	(1,860,003)	1,908,883	(255,994)		12,382,249
26	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 034554	1 017953	-				various
27	Total Non-Residential DSM Revenue Requirement	Line 25 * Line 26	11,190,773	-	1,804,180	-	-	-		12,994,953
28	Total Collected for Vintage 3 (Riders 3-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1								13,146,993
29	Non-Residential DSM Revenue Requirement True up Amount	Line 27 Line 28								(152,040)
30	Interest due to Vintage 3 DSM Non-Residential Customers	Miller Exhibit 8 Line 18								(30,408)
31	Total Non-Residential Vintage 3 Revenue Requirement	Line 29+ Line 30								(182,448)
32	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1								23,100,220,941
33	**Non-Residential Rider EE (cents per kWh)**	Line 31/Line 32*100								**(0.0008)**

1 Adjustments to DSM participation were identified and trued up in 2014 The Company has also received final EM&V and participation for EE programs

2 The cap adjustment factor was updated in Miller Exhibit 4 for actual 2014 collections and estimated 2015 collections

3 Updated lost revenues by year can be found in Barnes Exhibit 2, page 1 Year 2015 has been updated with most recent participation and lost revenue rates as this is the final SAW true up

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Duke Energy Carolinas, LLC
EE Vintage 4 (January 1, 2013 - December 31, 2013)
Docket Number E-7, Sub 1073
True-Up of Avoided Cost Revenue Requirements & Net Lost Revenues For Vintage 4 Year 1,2 and 3
and Estimate of Year 4 Net Lost Revenues for Vintage 4

RESIDENTIAL

Line			Rider 4	Rider 5	Rider 6	Rider 6	Rider 7		
			2013 Original Filing	2014 Y2 Lost Revenue	2015 True up of Costs & Year 3 Lost Revenues	2015 True up of 85% to 100%	2016 True up		Vintage 4 - Residential
1	EE Avoided Cost Component	Barnes Exhibit 1 pg 5, Line 8	5,965,462		11,558,766	1,052,729	(1,109,310)	1	17,467,647
2	DSM Avoided Cost Component	Barnes Exhibit 1 pg 5, Line 9	11,275,591		(133,778)	1,989,810	748,905	1	13,880,528
3	Total EE and DSM Avoided Cost	Line 1 + Line 2	17,241,053		11,424 988	3,042,539	(360,405)		31,348,175
4	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 35			(2,928,359)		(1,716,231)	2	(4,644,590)
5	DSM/EE Avoided Cost Component adjusted for Cap	Line 3 + Line 4	17,241,053		8,496,629	3,042,539	(2,076,636)		26,703,585
6	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 017958	1 001352	1 001352	1 001352		various
7	Adjusted Avoided Cost Revenue Requirement	Line 5 * Line 6	17,836,801		8,508,116	3,046,652	(2,079,444)		27,312,126
8	Residential Lost Revenues	Barnes Exhibit 2 pg 1	1,222,507	3,086,106	16,473,937	215,736	6,059,612	3	27,057,898
9	Total Residential Revenue Requirement	Line 7 + Line 8	19,059,307	3,086,106	24,982,053	3,262,389	3,980,168		54,370,024
10	Total Collected for Vintage 4 (Rider 4 -5 Actuals, Rider 6 Estimate)	Miller Exhibit 3 pg 1, Line 4 + Line 10							50,268,825
11	**Residential EE/DSM Revenue Requirement True-up Amount**	Line 9 Line 10							4,101,198

See Miller Exhibit A for rate

NON-RESIDENTIAL

Energy Efficiency

			Rider 4	Rider 5	Rider 6	Rider 6	Rider 7		
			2013 Original Filing	2014 True up	2015 True up of Costs & Year 3 Lost Revenues	2015 True up of 85% to 100%	2016 True up		Vintage 4 EE
12	Non-Residential EE Avoided Cost Component	Barnes Exhibit 1 pg 5, Line 16	18,760,423		9,250,045	3,310,663	218,976	1	31,540,107
13	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 36			(3,215,288)		(1,091,871)	2	(4,307,159)
14	EE Avoided Cost Component Adjusted for Cap	Line 12 + Line 13	18,760,423	-	6,034,757	3,310,663	(872,895)		27 232,948
15	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 017958	1 001352	1 001352	1 001352		various
16	Total Non Residential Avoided Cost Revenue Requirement	Line 14 * Line 15	19,408,671	-	6 042 916	3,315,139	(874,075)		27,892,651
17	Non-Residential Lost Revenues	Barnes Exhibit 2 pg 1	632,182	2,817,719	7,776,143	111,561	6,064,245	3	17,401,850
18	Total Non Residential EE Revenue Requirement	Line 16 + Line 17	20,040,852	2,817,719	13,819,059	3,426,700	5,190,170		45,294,500
19	Total Collected for Vintage 4 (Rider 4-5 Actuals, Rider 6 Estimate)	Miller Exhibit 3 pg 1, Line 17							37,388,248
20	Non-Residential EE Revenue Requirement True up Amount	Line 18 Line 19							7,906,252
21	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1, Line 21							23,966,011,232
22	**Non-Residential Rider EE (cents per kWh)**	Line 20/Line 21*100							**0.0330**

DSM

			Rider 4	Rider 5	Rider 6	Rider 6	Rider 7		
			2013 Original Filing	2014 True up	2015 True up of Costs	2015 True up of 85% to 100%	True-up		Vintage 4 - DSM
23	Non-Residential DSM Avoided Cost Component	Barnes Exhibit 1 pg 5, Line 17	$ 14,776,131		(101,621)	2,607,553	$ (468,103)	1	$ 16,813,960
24	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 37			(2,357,201)		(24,965)	2	(2,382,166)
25	Non-Residential DSM Avoided Cost Component adjusted for Cap	Line 23 + Line 24	14,776,131		(2,458,822)	2,607,553	(493,067)		14,431,795
26	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554		1 001352	1 001352	1 001352		various
27	Total Non-Residential DSM Revenue Requirement	Line 25 * Line 26	15,286,706		(2 462,146)	2,611,078	(493,734)		14,941,904
28	Total Collected for Vintage 4 (Rider 4-5 Actuals, Rider 6 Estimates)	Miller Exhibit 3 pg 1, Line 23							14,864,137
29	Non-Residential DSM Revenue Requirement True up Amount	Line 27 Line 28							$ 77,767
30	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1, Line 21							23,215,694,176
31	**Non-Residential Rider EE (cents per kWh)**	Line 29/Line 30*100							**0 0003**

1 Adjustments to DSM participation were identified and trued up in 2014 The Company has also received final EM&V and participation for EE programs

2 The cap adjustment factor was updated in Miller Exhibit 4 for actual 2014 collections and estimated 2015 collections

3 Note Updated lost revenues by year can be found in Barnes Exhibit 2, page 1 Year 2015 has been updated with most recent participation and lost revenue rates as this is the final SAW true up In addition, 2016 year 4 has been included as a final estimate

Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Year 3 Lost Revenues and True up Year 1 for Vintage Year 2014

RESIDENTIAL
Energy Efficiency Programs

Line		Reference	Year 2014 Yr 3 LR Estimate	Rider 5 Original Estimate	True up	Year 2014 Year 1
1	Residential EE Program Cost	Barnes Exhibit 1 pg 6, Line 8 * NC Alloc Factor		$ 29,754,660	$ (1,844,170)	$ 27 910,490
2	Residential EE Earned Utility Incentive	Barnes Exhibit 1 pg 6, Line 8 * NC Alloc Factor		2,242,156	2,715,537	4,957,693
3	Return on undercollection of Residential EE Program Costs	Miller Exhibit 2 pg 9			33,485	33,485
4	Total EE Program Cost and Incentive Components	Line 1 + Line 2 + line 3		31,996,816	904,852	32,901,668
5	Residential DSM Program Cost	Barnes Exhibit 1 pg 6, Line 9 * NC Alloc Factor		13,143,935	(2,535,104)	10,608,831
6	Residential DSM Earned Utility Incentive	Barnes Exhibit 1 pg 6, Line 9 * NC Alloc Factor		3,240,520	(12,767)	3,227,753
7	Return on overcollection of Residential DSM Program Costs	Miller Exhibit 2 pg 10			(43,209)	(43,209)
8	Total DSM Program Cost and Incentive Components	Line 5 + Line 6 + Line 7		16,384,455	(2,591,080)	13,793,375
9	Total EE/DSM Program Cost and Incentive Components	Line 4 + Line 8		48,381,271	(1,686,228)	46,695,043
10	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg 13		1 017953	1 001352	
11	Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10		49,249,860	(1,688,508)	47,561,352
12	Residential Net Lost Revenues	Barnes Exhibit 2 pg 2	$ 9,088,523	8,435,982	3,065,327	11,501,309
13	Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	9,088,523	57,685,842	1,376,819	59,062,661
14	Total Collected for Year 2014 (Rider 5)	Miller Exhibit 3 pg 1, Line 5 + Line 11				58,390,274
15	**Total Residential EE/DSM Revenue Requirement**	Line 11 + Line 12	$ 9,088,523			$ 672,387

See Miller Exhibit A for rate

NON-RESIDENTIAL
Energy Efficiency Programs

	Residential EE/DSM Revenue Requirement True-up Amount	Reference	Year 2014 Yr 3 LR Estimate	Rider 5 Original Estimate	True up	Year 2014 Year 1
16	Non- Residential EE Program Cost	Barnes Exhibit 1 pg 6, Line 24 * NC Alloc Factor		16,206,358	(1,398,648)	14,807,710
17	Non-Residential EE Earned Utility Incentive	Barnes Exhibit 1 pg 6, Line 24 * NC Alloc Factor		5,782,942	2,021,277	7,804,219
18	Return on undercollection of Non-residential EE Program Costs	Miller Exhibit 2 page 11			58,887	58,887
19	Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18		21,989,300	681,516	22 670,816
20	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg 13		1 017953	1 001352	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requireme	Line 19 * Line 20		22,384,074	682,438	23,066,512
22	Non-Residential Net Lost Revenues	Barnes Exhibit 2 pg 2	6,094,150	1,831,641	1,222,389	3,054,030
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	6,094,150	24,215,715	1,845,860	26,120,541
24	Total Collected for Year 2014 (Rider 5)	Miller Exhibit 3, pg 1, Line 18				22,574,937
25	Non-Residential EE Revenue Requirement True-up Amount	Line 23 Line 24	6,094,150			3,545,604
26	Projected NC Residential Sales (kWh)	Miller Exhibit 6, pg 2, Line 17	23,824,291,077			23,824,291,077
27	**NC Non-Residential EE billing factor (Cents/kWh)**	Line 25/Line 26*100	**0.0256**			**0.0149**

DSM Programs

		Reference	Rider 5 Original Estimate	True up	Year 2014 Year 1
28	Non-Residential DSM Program Cost	Barnes Exhibit 1, pg 6 Line 25 * NC Alloc Factor	15,046,160	(2,195,319)	12,850,841
29	Non Residential DSM Earned Utility Incentive	Barnes Exhibit 1, pg 6 Line 25 * NC Alloc Factor	3,709,497	200,391	3,909,888
30	Return on overcollection of Non-residential DSM Program Costs	Miller Exhibit 2 page 12		(12,444)	(12,444)
31	Total Non-Residential DSM Program Cost and Incentive Components	Line 28 + Line 29 + Line 30	18,755,657	(2,007,373)	16,748,284
32	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg 13	1 017953	1 001352	
33	Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32	19,092,377	(2,010,087)	17,082,291
34	Total Revenue Collected for DSM Programs Year 2014	Miller Exhibit 3, pg 1, Line 24			18,087,702
35	Non-Residential DSM Revenue Requirement True-up Amount	Line 33- Line 34			(1,005,411)
36	Projected NC Non-Residential Sales (kWh)	Miller Exhibit 6 pg 2, Line 17			23,138,123,262
37	**NC Non-Residential DSM billing factor**	Line 35/Line 36*100			**(0.0043)**

[1] Revenue estimated to be collected in 2015 pertain to year 2 lost revenues Year 2 lost revenues are not included in the lost revenue true-up for 2014 Therefore, the 2015 revenue is not included in this true-up It will be trued up in Rider 8

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Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Year 2 Lost Revenues for Vintage Year 2015

RESIDENTIAL

Line		Reference	2015
1	Residential Lost Revenues - Year 2	Barnes Exhibit 2 pg. 2 Line 36	$ 4,071,955
2	Projected NC Residential Sales (kWh)	Miller Exhibit 6 pg. 2, Line 1	21,674,738,000
3	**NC Residential EE Billing factor (Cents/kWh)**	Line 1/Line 2*100	**0.0188**

NON-RESIDENTIAL
Energy Efficiency Programs

		Reference	2015
4	Non-Residential Net Lost Revenues - Year 2	Barnes Exhibit 2 pg. 2 Line 50	$ 8,194,003
5	Projected NC Residential Sales (kWh)	Miller Exhibit 2 pg. 7, Line 19	23,753,678,227
6	**NC Non-Residential EE Billing Factor (Cents/kwh)**	Line 4/Line 5*100	**0.0345**

Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Program Costs, Earned Incentive and Lost Revenues for Vintage Year 2016

RESIDENTIAL

Line		Reference	2016
1	Residential EE Program Cost	Barnes Exhibit 1, pg 7 * NC Alloc Factor	$ 31,056,079
2	Residential EE Earned Utility Incentive	Barnes Exhibit 1, pg 7 * NC Alloc Factor	2,392,652
3	Total EE Program Cost and Incentive Components	Line 1 + Line 2	33,448,730
4	Residential DSM Program Cost	Barnes Exhibit 1, pg 7 * NC Alloc Factor	10,613,016
5	Residential DSM Earned Utility Incentive	Barnes Exhibit 1, pg 7 * NC Alloc Factor	2,887,418
6	Total DSM Program Cost and Incentive Components	Line 4 + Line 5	13,500,433
7	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6	46,949,164
8	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg 13	1 001352
9	Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 7 * Line 8	47,012,639
10	Residential Net Lost Revenues	Barnes Exhibit 2 pg 2 Line 61	11,873,767
11	**Total Residential EE Revenue Requirement**	**Line 9 + Line 10**	**$ 58,886,406**

See Miller Exhibit 1 for rate

NON-RESIDENTIAL
Energy Efficiency Programs

		Reference	2016
12	Non- Residential EE Program Cost	Barnes Exhibit 1, pg 7 * NC Alloc Factor	$ 36,494,611
13	Non-Residential EE Earned Utility Incentive	Barnes Exhibit 1, pg 7 * NC Alloc Factor	10,105,721
14	Total EE Program Cost and Incentive Components	Line 12 + Line 13	46,600,331
15	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg 13	1 001352
16	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 14 * Line 15	46,663,335
17	Non-Residential Net Lost Revenues	Barnes Exhibit 2 pg 2 Line 75	4,745,315
18	Total Non-Residential EE Revenue Requirement	Line 16 + Line 17	$ 51,408,650
19	Projected NC Residential Sales (kWh)	Miller Exhibit 6, pg 2	23,753,678,227
20	**NC Non-Residential EE billing factor (Cents/kWh)**	Line 18/Line 19*100	**0.2164**

DSM Programs

			2016
21	Non-Residential DSM Program Cost	Barnes Exhibit 1, pg 7 * NC Alloc Factor	$ 12,855,910
22	Non-Residential DSM Earned Utility Incentive	Barnes Exhibit 1, pg 7 * NC Alloc Factor	3,497,628
23	Total Non-Residential DSM Program Cost and Incentive Components	Line 21 + Line 22	16,353,538
24	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg 13	1 001352
25	Total Non-Residential DSM Revenue Requirement	Line 23 * Line 24	16,375,648
26	Projected NC Non-Residential Sales (kWh)	Miller Exhibit 6, pg 2	23,082,735,561
27	**NC Non-Residential DSM billing factor**	Line 25/Line 26*100	**0.0709**

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Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Interest Calculation - SAW Program

NON-RESIDENTIAL DSM Programs

VINTAGE 3

1	**Vintage 3**	Miller Exh 2 pg. 3 Line 29	(152,040)
			(152,040)
2	Annual interest rate	Same as used for fuel	10.00%
3	Monthly interest rate	Line 2/12	0.83%
4	Beginning interest incurred date	Mid-point of test period	7/1/2014
5	Ending date	Mid-point of rate period	6/30/2016
6	Total months to calculate interest		24
7	Total interest due	Line 1 * Line 3 * Line 6	(30,408)

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Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Return Calculation - Residential EE Programs Vintage 2014

NC Residential EE		Residential EE Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	NC Residential Revenue Collected(EEC2)	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
			Miller Exhibit 5 pg 6, Line 4			see calc at right		
2014	January	2,345,126	72 9600473%	1,711,005	1,965,528	62 0990604%	(1,220,574)	490,431
2014	February	1,939,655	72 9600473%	1,415,174	4,790,497	62 0990604%	(2,974,854)	(1,559,680)
2014	March	2,388,597	72 9600473%	1,742,722	3,571,294	62 0990604%	(2,217,740)	(475,018)
2014	April	2,800,794	72 9600473%	2,043,460	2,996,350	62 0990604%	(1,860,705)	182,755
2014	May	3,504,706	72 9600473%	2,557,035	2,605,626	62 0990604%	(1,618,069)	938,966
2014	June	3,049,089	72 9600473%	2,224,617	3,281,724	62 0990604%	(2,037,920)	186,697
2014	July	4,165,240	72 9600473%	3,038,961	3,939,031	62 0990604%	(2,446,101)	592,859
2014	August	4,277,377	72 9600473%	3,120,776	3,417,322	62 0990604%	(2,122,125)	998,652
2014	September	2,815,581	72 9600473%	2,054,249	3,539,784	62 0990604%	(2,198,173)	(143,924)
2014	October	3,790,918	72 9600473%	2,765,856	2,460,025	62 0990604%	(1,527,652)	1,238,204
2014	November	3,405,295	72 9600473%	2,484,505	2,448,958	62 0990604%	(1,520,780)	963,725
2014	December	3,772,108	72 9600473%	2,752,132	3,980,410	62 0990604%	(2,471,797)	780,335
2015	January	0	72 9600473%	-	2,517,177	62 0990604%	(1,563,143)	(1,563,143)
		38,254,486		27,910,491	41,513,726			

EE Program Costs	27,910,490
EE Revenue Requirement	44,945,109
% Revenue related to Program Costs	62%

NC Residential EE		Cumulative (Over)/Under Recovery	Deferred Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest
			2014 tax rate				6 93%		
2014	January	490,431	0 383471	188,066	188,066	302,365	0 005775	873	873
2014	February	(1,069,250)	0 383471	(598,092)	(410,026)	(659,224)	0 005775	(1,030)	(157)
2014	March	(1,544,268)	0 383471	(182,156)	(592,182)	(952,086)	0 005775	(4,653)	(4,810)
2014	April	(1,361,513)	0 383471	70,081	(522,101)	(839,412)	0 005775	(5,173)	(9,983)
2014	May	(422,547)	0 383471	360,066	(162,034)	(260,512)	0 005775	(3,176)	(13,159)
2014	June	(235,850)	0 383471	71,593	(90,447)	(145,408)	0 005775	(1,172)	(14,331)
2014	July	357,010	0 383471	227,344	136,903	220,107	0 005775	216	(14,116)
2014	August	1,355,661	0 383471	382,954	519,857	835,804	0 005775	3,049	(11,067)
2014	September	1,211,738	0 383471	(55,191)	464,666	747,071	0 005775	4,571	(6,496)
2014	October	2,449,941	0 383471	474,815	939,481	1,510,460	0 005775	6,519	23
2014	November	3,413,666	0 383471	369,560	1,309,042	2,104,624	0 005775	10,439	10,462
2014	December	3,694,001	0 383471	107,500	1,416,542	2,277,459	0 005775	12,654	23,115
2015	January	2,130,857	0 383471	(599,420)	817,122	1,313,735	0 005775	10,370	33,485
								33,485	

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Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Return Calculation - Residential DSM Programs Vintage 2014

NC Residential DSM		Total System NC DSM Program Costs Incurred	NC Residential DSM Allocation %	NC Allocated DSM Residential Program Costs	NC Residential Revenue Collected(EEC2)	NC Residential DSM Program Collection %	DSM Program Costs Revenue Collected	(Over)/Under Collection
			Miller Exhibit 5, pg 6 Line 9			See calc at right		
2014	January	1,853,709	34 0209980%	630,650	801,545	75 0945957%	(601,917)	28,733
2014	February	1,977,838	34 0209980%	672,880	1,953,572	75 0945957%	(1,467,027)	(794,147)
2014	March	2,263,839	34 0209980%	770,180	1,456,379	75 0945957%	(1,093,662)	(323,481)
2014	April	2,327,907	34 0209980%	791,977	1,221,916	75 0945957%	(917,593)	(125,616)
2014	May	2,953,411	34 0209980%	1,004,780	1,062,578	75 0945957%	(797,939)	206,841
2014	June	2,326,109	34 0209980%	791,366	1,338,292	75 0945957%	(1,004,985)	(213,619)
2014	July	3,521,875	34 0209980%	1,198,177	1,597,016	75 0945957%	(1,199,273)	(1,096)
2014	August	3,245,158	34 0209980%	1,104,035	1,385,497	75 0945957%	(1,040,433)	63,602
2014	September	3,836,775	34 0209980%	1,305,309	1,435,148	75 0945957%	(1,077,718)	227,591
2014	October	3,227,894	34 0209980%	1,098,162	997,377	75 0945957%	(748,976)	349,186
2014	November	2,015,259	34 0209980%	685,611	992,890	75 0945957%	(745,607)	(59,996)
2014	December	1,633,412	34 0209980%	555,703	1,613,792	75 0945957%	(1,211,871)	(656,167)
2015	January		34 0209980%	-	1,020,548	75 0945957%	(766,377)	(766,377)
		31,183,185		10,608,831	16,876,548			

DSM Program Costs	10,608,831
DSM Revenue Requirement	14,127,289
% Revenue related to Program Costs	75%

NC Residential DSM		Cumulative (Over)/Under Recovery	Deferred Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest
			2014 tax rate				6 93%		
2014	January	28,733	0 383471	11,018	11,018	17,715	0 005775	51	51
2014	February	(765,414)	0 383471	(304,532)	(293,514)	(471,900)	0 005775	(1,311)	(1,260)
2014	March	(1,088,895)	0 383471	(124,046)	(417,560)	(671,335)	0 005775	(3,301)	(4,561)
2014	April	(1,214,510)	0 383471	(48,170)	(465,729)	(748,781)	0 005775	(4,101)	(8,662)
2014	May	(1,007,669)	0 383471	79,318	(386,412)	(621,257)	0 005775	(3,956)	(17,618)
2014	June	(1,221,288)	0 383471	(81,917)	(468,329)	(752,959)	0 005775	(3,968)	(16,586)
2014	July	(1,222,384)	0 383471	(420)	(468,749)	(753,635)	0 005775	(4,350)	(20,936)
2014	August	(1,158,782)	0 383471	24,389	(444,359)	(714,423)	0 005775	(4,239)	(25,175)
2014	September	(931,191)	0 383471	87,274	(357,085)	(574,106)	0 005775	(3,721)	(28,896)
2014	October	(582,005)	0 383471	133,903	(223,182)	(358,823)	0 005775	(2,694)	(31,590)
2014	November	(642,001)	0 383471	(23,007)	(246,189)	(395,812)	0 005775	(2,179)	(33,769)
2014	December	(1,298,168)	0 383471	(251,621)	(497,810)	(800,358)	0 005775	(3,454)	(37,223)
2015	January	(2,064,545)	0 383471	(293,883)	(791,693)	(1,272,852)	0 005775	(5,986)	(43,209)
								(43,209)	

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Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Return Calculation - Non- Residential EE Programs Vintage 2014

NC Non- Residential EE		Non-Residential EE Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	NC Residential Revenue Collected(EEC14)	NC Non Residential EE Program Collection %	Non Residential EE Program Costs Revenue Collected	(Over)/Under Collection
			Miller Exhibit 5 pg 6, Line 4			See calc at right		
2014	January	1,402,202	72 9600473%	1,023,047	873,873	56 8181711%	(496,519)	526,529
2014	February	787,200	72 9600473%	574,342	1,906,629	56 8181711%	(1,083,312)	(508,970)
2014	March	2,047,090	72 9600473%	1,493,558	1,730,198	56 8181711%	(983,067)	510,491
2014	April	1,881,253	72 9600473%	1,372,563	1,818,402	56 8181711%	(1,033,183)	339,380
2014	May	1,352,150	72 9600473%	986,529	1,841,327	56 8181711%	(1,046,209)	(59.679)
2014	June	3,031,236	72 9600473%	2,211,591	2,078,943	56 8181711%	(1,181,217)	1,030,374
2014	July	1,652,175	72 9600473%	1,205,428	2,112,332	56 8181711%	(1,200,188)	5,239
2014	August	666,430	72 9600473%	486,228	2,059,199	56 8181711%	(1,169,999)	(683,771)
2014	September	2,603,310	72 9600473%	1,899,376	2,121,927	56 8181711%	(1,205,640)	693,736
2014	October	1,387,748	72 9600473%	1,012,502	1,841,200	56 8181711%	(1,046,136)	(33,634)
2014	November	1,478,658	72 9600473%	1,078,830	1,706,943	56 8181711%	(969,854)	108,975
2014	December	2,006,192	72 9600473%	1,463,718	1,819,475	56 8181711%	(1,033,793)	429,926
			72 9600473%	-	664,487	56 8181711%	(377,550)	(377,550)
		20,295,644		14,807,712	22,574,937			

Non-Res EE Program Costs	14,807,710
Non-Res EE Revenue Requirement	26,061,575
% Revenue related to Program Costs	57%

NC Non-Residential EE		Cumulative (Over)/Under Recovery	Deferred Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest
			2014 tax rate				6 93%		
2014	January	526,529	0 383471	201,908 46	201,908	324,620	0 005775	937	937
2014	February	17,558	0 383471	(195,175 35)	6,733	10,825	0 005775	969	1,906
2014	March	528,049	0 383471	195,758 43	202,492	325,558	0 005775	971	2,877
2014	April	867,429	0 383471	130,142 30	332,634	534,795	0 005775	2,484	5,362
2014	May	807,750	0 383471	(22,885 31)	309,749	498,001	0 005775	2,982	8,344
2014	June	1,838,124	0 383471	395,118 54	704,867	1,133,256	0 005775	4,710	13,054
2014	July	1,843,363	0 383471	2,009 17	706,876	1,136,487	0 005775	6,554	19,608
2014	August	1,159,592	0 383471	(262,206 49)	444,670	714,922	0 005775	5,346	24,954
2014	September	1,853,328	0 383471	266,027 70	710,697	1,142,630	0 005775	5,364	30,317
2014	October	1,819,694	0 383471	(12,897 69)	697,800	1,121,894	0 005775	6,539	36,856
2014	November	1,928,669	0 383471	41,788 93	739,589	1,189,080	0 005775	6,673	43,529
2014	December	2,358,595	0 383471	164,864 02	904,453	1,454,142	0 005775	7,632	51,162
		1,981,045	0 383471	(144,779 31)	759,673	1,221,372	0 005775	7,726	58,887
								58,887	

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Duke Energy Carolinas, LLC
Docket No E 7, Sub 1073
Estimated Return Calculation Non Residential DSM Programs Vintage 2014

NC Non Residential DSM		Total System NC DSM Program Costs Incurred	NC Non Residential DSM Allocation %	NC Allocated DSM Non Residential Program Costs	Incentives Earned & GRT remitted (Allocated based on WA of Program Costs Incurred)	Total DSM Revenue Requirement	NC Non Residential DSM Revenue Collected(DS14)	NC Non Residential DSM Program Collection %	Non Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
			See Miller Exhibit 5 pg 6 Line 10		calculated interest on entire balance due to over collection in total			100% used due to over collection of entire vintage		
2014	January	1 853 709	41 2108021%	763 928	252 283	1 016 211	715 425	100 0000000%	(715 425)	300 786
2014	February	1 977 838	41 2108021%	815 083	269 176	1 084 259	1 545 880	100 0000000%	(1 545 880)	(461 622)
2014	March	2 263 839	41 2108021%	932 946	308 100	1 241 046	1 379 174	100 0000000%	(1 379 174)	(138 128)
2014	April	2 327 907	41 2108021%	959 349	316 819	1 276 168	1 475 418	100 0000000%	(1 475 418)	(199 250)
2014	May	2 953 411	41 2108021%	1 217 124	401 948	1 619 072	1 483 279	100 0000000%	(1 483 279)	135 793
2014	June	2 326 109	41 2108021%	958 608	316 575	1 275 183	1 664 945	100 0000000%	(1 664 945)	(389 762)
2014	July	3 521 875	41 2108021%	1 451 393	479 314	1 930 707	1 716 762	100 0000000%	(1 716 762)	213 944
2014	August	3 245 158	41 2108021%	1 337 356	441 654	1 779 009	1 659 220	100 0000000%	(1 659 220)	119 789
2014	September	3 836 775	41 2108021%	1 581 166	522 170	2 103 336	1 699 354	100 0000000%	(1 699 354)	403 982
2014	October	3 227 894	41 2108021%	1 330 241	439 304	1 769 545	1 492 291	100 0000000%	(1 492 291)	277 254
2014	November	2 015 259	41 2108021%	830 504	274 269	1 104 773	1 335 834	100 0000000%	(1 335 834)	(231 061)
2014	December	1 633 412	41 2108021%	673 142	222 301	895 443	1 459 103	100 0000000%	(1 459 103)	(563 659)
2015	January		41 2108021%				461 016	100 0000000%	(461 016)	(461 016)
		31 183 185		12 850 841	4 243 911	17 094 752	18 087 702			

NC Residential EE		Cumulative (Over)/Under Recovery	Deferred Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest
			2014 tax rate				6 93%		
2014	January	300 786	0 380225	114 366	114 366	186 420	0 005775	538	538
2014	February	(160 835)	0 380225	(175 520)	(61 154)	(99 682)	0 005775	250	789
2014	March	(298 963)	0 380225	(52 520)	(113 673)	(185 290)	0 005775	(823)	(34)
2014	April	(498 214)	0 380225	(75 760)	(189 433)	(308 780)	0 005775	(1 427)	(1 461)
2014	May	(362 421)	0 380225	51 632	(137 801)	(224 619)	0 005775	(1 540)	(3 001)
2014	June	(752 183)	0 380225	(148 197)	(285 999)	(466 184)	0 005775	(1 995)	(4 996)
2014	July	(538 238)	0 380225	81 347	(204 652)	(333 587)	0 005775	(2 309)	(7 305)
2014	August	(418 449)	0 380225	45 547	(159 105)	(259 344)	0 005775	(1 712)	(9 017)
2014	September	(14 467)	0 380225	153 604	(5 501)	(8 967)	0 005775	(775)	(9 792)
2014	October	262 787	0 380225	105 419	99 918	162 869	0 005775	444	(9 347)
2014	November	31 726	0 380225	(87 855)	12 063	19 663	0 005775	527	(8 820)
2014	December	(531 933)	0 380225	(214 317)	(202 254)	(329 679)	0 005775	(895)	(9 716)
2015	January	(992 950)	0 380225	(175 290)	(377 544)	(615 406)	0 005775	(2 729)	(12 444)
								(12 444)	

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Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Gross Receipts Tax Years 2009-2016

	Year		GRT Rate In Effect
Rider 1	2009		1.034554
Rider 1	2010		1.034554
Rider 2	2011		1.034554
Rider 3	2012		1.034554
Rider 4	2013		1.034554
	2014	Jan - June	1.034554
		July - Dec	1.001352
Rider 5	2014	Weighted Average	1.017953
Rider 6	2015		1.001352
Rider 7	2016		1.001352

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Duke Energy Carolinas, LLC
DSM/EE Revenues Collected from Riders 1-6 (By Vintage)
Docket Number E-7, Sub 1073
For Vintages 1- 4 and Year 2014 True-Up Calculations

Line		Vintage	Actual 2010 Rider 1	Actual 2011 Rider 2	Actual 2012 Rider 3	Actual 2013 Rider 4	Actual 2014 Rider 5	Estimate 2015 Rider 6 [1]	Total
	Residential								
1	EE	v1	$ 25,916,921	$ 6,366,243	$ 17,575,779	$ 929,553	$ 674,570	$ 2,884,169	$ 54,347,236
2		v2		22,641,166	7,680,225	10,307,713	7,750,897	17,156,210	65,536,210
3		v3			8,610,393	2,933,257	21,501,477	16,970,485	50,015,612
4		v4				7,291,829	3,131,859	27,904,781	38,328,469
5		Year 2014					41,513,726	3,871,360	45,385,085
6		Year 2015						53,202,985	53,202,985
7	DSM	v1	6,461,100		2,357,720	(413,135)		(210,578)	8,195,107
8		v2		7,259,507		1,260,061		(1,200,218)	7,319,349
9		v3			10,713,375	-	(2,354,078)	1,466,599	9,825,897
10		v4				11,526,460		413,896	11,940,356
11		Year 2014					16,876,548		16,876,548
12		Year 2015						5,658,797	5,658,797
13	**Total Residential**		$ 32,378,022	$ 36,266,916	$ 46,937,492	$ 33,835,738	$ 89,094,999	$ 128,118,487	$ 366,631,653
	Non-Residential								
14	EE	v1	$ 7,688,412	$ 860,011	$ 6,038,079	$ 3,812,310	$ (289,351)	$ -	$ 18,109,461
15		v2		7,165,813	1,039,274	12,137,871	1,415,164	2,349,137	24,107,260
16		v3			11,394,699	1,717,616	17,828,520	5,928,564	36,869,399
17		v4				19,795,122	3,107,562	14,485,563	37,388,248
18		Year 2014					22,574,937	4,760,481	27,335,418
19		Year 2015					-	25,545,057	25,545,057
20	DSM	v1	5,118,264		4,994,566	(311,608)		(65,988)	9,735,234
21		v2		7,594,483		3,378,237	-	(44,923)	10,927,797
22		v3			12,967,453	-	(1,109,322)	1,288,862	13,146,993
23		v4				14,182,324	-	681,813	14,864,137
24		Year 2014					18,087,702		18,087,702
25		Year 2015						19,453,552	19,453,552
26	**Total Non-Residential**		$ 12,806,676	$ 15,620,307	$ 36,434,070	$ 54,711,872	$ 61,615,213	$ 74,382,118	$ 255,570,257
27	**Total Revenue**		**$ 45,184,698**	**$ 51,887,223**	**$ 83,371,563**	**$ 88,547,610**	**$ 150,710,212**	**$ 202,500,605**	**$ 622,201,910**

[1] Rider 6 estimates based on the revised estimated forecast. See Miller Exhibit 3 page 3.

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Duke Energy Carolinas, LLC
DSM/EE Revenues Collected from Riders 1-6 (By Vintage)
Docket Number E-7, Sub 1073
Revenue by Type for Riders 1-5 Actuals and Rider 6 estimates (SAW Program only)

Line		Vintage	Actual 2010 Rider 1	Actual 2011 Rider 2	Actual 2012 Rider 3	Actual 2013 Rider 4	Actual 2014 Rider 5	Estimate 2015 Rider 6 [1]	Total
	Residential								
1	EE/DSM-Avoided Costs	v1	$ 23,845,842	$ -	$ 21,750,975	$ (6,891,415)	$ 837,024	$ (1,034,124)	$ 38,508,303
2		v2	-	22,938,621	-	12,315,553	11,742	(9,643,903)	25,622,013
3		v3	-	-	18,077,050	-	10,257,628	7,109,157	35,443,836
4		v4	-	-	-	17,612,692	-	11,368,427	28,981,119
5	Lost Revenue	v1	8,532,180	6,366,243	(1,817,476)	7,407,834	(162,454)	3,707,715	24,034,040
6		v2	-	6,962,052	7,680,225	(747,779)	7,739,154	25,599,895	47,233,547
7		v3	-	-	1,246,718	2,933,257	8,889,771	11,327,927	24,397,673
8		v4	-	-	-	1,205,598	3,131,859	16,950,250	21,287,706
9	**Total Residential**		$ 32,378,022	$ 36,266,916	$ 46,937,492	$ 33,835,738	$ 30,704,725	$ 65,385,345	$ 245,508,237
	Non-Residential								
10	EE Avoided Costs	v1	$ 6,572,003	$ -	$ 7,233,409	$ 3,066,725	$ (348,179)	$ -	$ 16,523,959
11		v2	-	6,225,978	-	11,932,378	-	(983,590)	17,174,766
12		v3	-	-	11,328,823	-	14,441,251	2,922,651	28,692,725
13		v4	-	-	-	19,170,692	-	7,704,941	26,875,632
14	DSM Avoided Costs	v1	5,118,264	-	4,994,566	(311,608)	-	(65,988)	9,735,234
15		v2	-	7,594,483	-	3,378,237	-	(44,923)	10,927,797
16		v3	-	-	12,967,453	-	(1,109,322)	1,288,862	13,146,993
17		v4	-	-	-	14,182,324	-	681,813	14,864,137
18	Lost Revenue	v1	1,116,409	860,011	(1,195,330)	745,585	58,828	-	1,585,502
19		v2	-	939,835	1,039,274	205,493	1,415,164	3,332,727	6,932,493
20		v3	-	-	65,876	1,717,616	3,387,269	3,005,913	8,176,674
21		v4	-	-	-	624,430	3,107,562	6,780,623	10,512,615
22	**Total Non-Residential**		$ 12,806,676	$ 15,620,307	$ 36,434,070	$ 54,711,872	$ 20,952,574	$ 24,623,028	$ 165,148,528
23	**Total Revenue**		**$ 45,184,698**	**$ 51,887,223**	**$ 83,371,563**	**$ 88,547,610**	**$ 51,657,299**	**$ 90,008,373**	**$ 410,656,765**

[1] Rider 6 estimates based on the revised estimated forecast. See Miller Exhibit 3 page 3.

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Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 7
Docket Number E-7 Sub 1073
Revised Estimated Revenues 2015

Residential Billing Factors for Rider 6 with updated 2015 forecast

Line			
1	Rate for Vintage 1 True Up	(WA of rate in Rider 6, McGee Exhibit 1)	0 0125
2	Updated 2015 Forecast	Miller Exhibit 6 pg 1, Line 1	21,388,729,000
3	Estimated Revenue Vintage 1 True Up	(Line 1*Line 2)/100	**2,673,591**
4	Rate for Vintage 2 True-Up	(WA of rate in Rider 6, McGee Exhibit 1)	0 0746
5	Updated 2015 Forecast	Miller Exhibit 6 pg 1, Line 1	21,388,729,000
6	Estimated Revenue Vintage 2 True Up	(Line 4*Line 5)/100	**15,955,992**
7	Rate for Vintage 3 True Up	(WA of rate in Rider 6, McGee Exhibit 1)	0 0786
8	Updated 2015 Forecast	Miller Exhibit 6 pg 1, Line 1	21,388,729,000
9	Estimated Revenue Vintage 3 True Up	(Line 7*Line 8)/100	**16,811,541**
10	Rate for Vintage 4 True Up	(WA of rate in Rider 6, McGee Exhibit 1)	0 0984
11	Updated 2015 Forecast	Miller Exhibit 6 pg 1, Line 1	21,388,729,000
12	Estimated Revenue Vintage 4 True Up	(Line 10*Line 11)/100	**21,046,509**
13	Rate for Vintage 3 Prospective Component	(WA of rate in Rider 6, McGee Exhibit 1)	0 0076
14	Updated 2015 Forecast	Miller Exhibit 6 pg 1, Line 1	21,388,729,000
15	Estimated Revenue Vintage 3 True Up	(Line 13*Line 14)/100	**1,625,543**
16	Rate For Vintage 4 Prospective Component	(WA of rate in Rider 6, McGee Exhibit 1)	0 0340
17	Updated 2015 Forecast	Miller Exhibit 6 pg 1, Line 1	21,388,729,000
18	Estimated Revenue Vintage 4 True Up	(Line 16*Line 17)/100	**7,272,168**
19	Rate for Year 2014 Prospective Component	(WA of rate in Rider 6, McGee Exhibit 1)	0 0181
20	Updated 2015 Forecast	Miller Exhibit 6, pg 2	21,388,729,000
21	Estimated Revenue Vintage Year 2014 True Up	(Line 19*Line 20)/100	**3,871,360**
22	Rate For Year 2015 Prospective Component	(WA of rate in Rider 6, McGee Exhibit 1)	0 2752
23	Updated 2015 Forecast	Miller Exhibit 6, pg 2	21,388,729,000
24	Estimated Revenue Vintage Year 2015 True Up	(Line 22*Line 23)/100	**58,861,782**

Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 7
Docket Number E-7 Sub 1073
Revised Estimated Revenues 2015

Revised Non-Residential Billing Factors for Rider 6 with updated forecast

Line				
1	Rate for Vintage 1 EE True up (EMF) Participants	Rider 6, McGee Exhibit 1		-
2	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		22,483,765,776
3	*SAW EE Estimated Revenue Vintage 1 EMF Non-Residential Rider EE*	Line 1*Line 2 / 100		-
4	Rate for Vintage 1 DSM True-up (EMF) Participants	Rider 6, McGee Exhibit 1		(0 0003)
5	Updated 2015 Forecast	Miller Exhibit 6 pg 1, Line 31		21,995,904,238
6	*SAW DSM Estimated Revenue Vintage 1 EMF Non Residential Rider EE*	Line 4*Line 5 / 100	$	**(65,988)**
7	Rate for Vintage 2 EE True up (EMF) Participants	Rider 6, McGee Exhibit 1		0 0103
8	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		22,807,156,187
9	*SAW EE Estimated Revenue Vintage 2 EMF Non Residential Rider EE*	Line 7*Line 8 / 100	$	**2,349,137**
10	Rate for Vintage 2 DSM True-up (EMF) Participants	Rider 6, McGee Exhibit 1		(0 0002)
11	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		22,461,631,628
12	*SAW DSM Estimated Revenue Vintage 2 EMF Non Residential Rider EE*	Line 10*Line 11 / 100	$	**(44,923)**
13	Rate for Vintage 3 EE True up (EMF) Participants	Rider 6, McGee Exhibit 1		0 0212
14	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		23,068,340,761
15	*SAW EE Estimated Revenue Vintage 3 EMF Non Residential Rider EE*	Line 13*Line 14 / 100	$	**4,890,488**
16	Rate for Vintage 3 DSM True-up (EMF) Participants	Rider 6, McGee Exhibit 1		0 0057
17	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		22,611,621,941
18	*SAW DSM Estimated Revenue Vintage 3 EMF Non-Residential Rider EE*	Line 16*Line 17 / 100	$	**1,288,862**
19	Rate for Vintage 4 EE True up (EMF) Participants	Rider 6, McGee Exhibit 1		0 0400
20	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		23,477,412,232
21	*SAW EE Estimated Revenue Vintage 4 EMF Non Residential Rider EE*	Line 19*Line 20 / 100	$	**9,390,965**
22	Rate for Vintage 4 DSM True-up (EMF) Participants	Rider 6, McGee Exhibit 1		0 0030
23	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		22,727,095,176
24	*SAW DSM Estimated Revenue Vintage 4 EMF Non-Residential Rider EE*	Line 22*Line 23 / 100	$	**681,813**
25	Rate for Vintage 3 EE Prospective Participants	Rider 6, McGee Exhibit 1		0 0045
26	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		23,068 340,761
27	*SAW EE Estimated Revenue Vintage 3 EE Prospective Component for Non Residential Rider EE*	Line 25*Line 26 / 100	$	**1,038,075**
28	Rate for Vintage 4 EE Prospective Participants	Rider 6, McGee Exhibit 1		0 0217
29	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		23,477,412,232
30	*SAW EE Estimated Revenue Vintage 4 EE Prospective Component for Non Residential Rider EE*	Line 28*Line 29 / 100	$	**5,094,598**
31	Rate for Year 2014 EE Prospective Participants	Rider 6, McGee Exhibit 1		0 0204
32	Updated 2015 Forecast	Miller Exhibit 6, pg 2, Line 25		23,335,692,077
33	*EE Estimated Revenue Vintage Year 2014 EE Prospective Component for Non-Residential Rider EE*	Line 31*Line 32 / 100	$	**4,760,481**
34	Rate for Vintage 2015 EE Prospective Participants	Rider 6, McGee Exhibit 1		0 1098
35	Updated 2015 Forecast	Miller Exhibit 6, pg 2, Line 25		23,265,079,227
36	*EE Estimated Revenue Vintage Year 2014 EE Prospective Component for Non-Residential Rider EE*	Line 37*Line 35 / 100	$	**25,545,057**
37	Rate for Vintage 2015 DSM Prospective Participants	Rider 6, McGee Exhibit 1		0 0861
38	Updated 2015 Forecast	Miller Exhibit 6, pg 2, Line 25		22,594,136,561
39	*DSM Estimated Revenue Vintage Year 2015 Prospective Component for Non Residential Rider EE*	Line 37*Line 38 / 100	$	**19,453,552**
				74,382,118

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Duke Energy Carolinas, LLC

Docket Number E-7, Sub 1073

DSM/EE Earnings Cap Calculation for the Period June 1, 2009 to December 31, 2013

				2009-2010	2011	2012	2013	
				Vintage 1	Vintage 2	Vintage 3	Vintage 4	Total
				a	b	c	d	e = sum(a-d)
Line	**Total for EE**		50%					
1	AC Revenues 50%	Barnes Exhibit 1		$ 54,046,415	$ 53,060,687	$ 55,694,675	$ 49,007,754	$ 211,809,532
2	Program Costs	Barnes Exhibit 3		35,112,011	32,010,151	36,593,077	35,401,041	139,116,280
3	Income Before Taxes	Line 1 - Line 2		18,934,404	21,050,536	19,101,598	13,606,713	72,693,252
4	Income Tax Rate			0 391760	0 391713	0 391373	0 391373	
5	Income Taxes	Line 3 * Line 4		7,417,742	8,245,769	7,475,850	5,325,300	28,464,661
6	Net Income	Line 3 - Line 5		$ 11,516,662	$ 12,804,768	$ 11,625,749	$ 8,281,413	$ 44,228,591
	Total for DSM Programs		75%					
7	AC Revenues 75%	Barnes Exhibit 1		$ 20,997,871	$ 22,415,745	$ 27,146,629	$ 30,694,489	$ 101,254,234
8	Program Costs	Barnes Exhibit 3		15,278,329	20,974,142	20,862,044	20,654,964	77,769,479
9	Income Before Taxes	Line 7 - Line 8		5,719,543	1,441,103	6,284,584	10,039,525	23,484,755
10	Income Tax Rate			0 391760	0 391713	0 391373	0 391373	
11	Income Taxes	Line 9 * Line 10		2,240,688	564,499	2,459,617	3,929,199	9,194,002
12	Net Income	Line 9 - Line 11		$ 3,478,855	$ 876,604	$ 3,824,968	$ 6,110,326	$ 14,290,752
	Total for SAW Programs Adjusted for DSM Cap							
13	AC Revenues	Line 1 + Line 7		$ 75,044,287	$ 75,475,933	$ 82,841,304	$ 79,702,242	$ 313,063,766
14	Program Costs	Line 2 + Line 8		50,390,340	57,984,294	57,455,121	56,056,005	216,885,759
15	Income Before Taxes	Line 13 Line 14		24,653,947	22,491,639	25,386,183	23,646,238	96,178,006
16	Income Tax Rate			0 391760	0 391713	0 391373	0 391373	0 391552
17	Income Taxes	Line 15 * Line 16		9,658,430	8,810,267	9,935,467	9,254,499	37,658,663
18	Net Income	Line 15 - Line 17		$ 14,995,516	$ 13,681,372	$ 15,450,716	$ 14,391,739	$ 58,519,343
19	Allowed After-tax Return on Program Cost Investment	Line 14 * 15%						32,532,864
20	Allowed Pre tax Return on Program Cost Investment	Line 19 /(1-Line 16)						53,468,577
21	Avoided Cost Revenues for the SAW program	Line 13						$ 313,063,766
22	Total Program Cost Investment + Allowed Pre-tax Return	Line 14 + Line 20						270,354,336
23	Excess Pre tax Return = Cap Adjustment	Line 21 - Line 22						$ 42,709,430
24	Total Avoided Costs Allowed to Collect	Minimum of Line 21 and Line 22						$ 270,354,336
25	Avoided Cost Revenue Collected (R1 5 actuals and R6 estimates) before GRT	Miller Exhibit 3 pg 2 / (1 001352)						266,136,697
26	Amount to be collected (returned) from (to) Customers	Line 24 Line 25						**$ 4,217,639**
	Allocation of Cap Adjustment (Line 23) to Residential/Non-Residential and Vintage							
27	Residential Avoided Cost Revenue Collections-Before GRT	Miller Exhibit 3 pg 2/1 001352		$ 38,456,310	$ 25,587,418	$ 35,395,980	$ 28,941,989	$ 128,381,698
28	Non-Residential EE Avoided Cost Revenue Collections Before GRT	Miller Exhibit 3 pg 2/1 001352		16,501,648	17,151,577	28,653,985	26,839,346	89,146,556
29	Non Residential DSM Avoided Cost Revenue Collections-Before GRT	Miller Exhibit 3 pg 2/1 001352		9,722,090	10,913,043	13,129,243	14,844,068	48,608,443
30	Total Revenue Collections			$ 64,680,048	$ 53,652,038	$ 77,179,208	$ 70,625,403	$ 266,136,697
	Relative Percentage							
31	Residential Avoided Cost Revenue	Line 27 / Line 30		59%	48%	46%	41%	48%
32	Non Residential EE Avoided Cost Revenue	Line 28 / Line 30		26%	32%	37%	38%	33%
33	Non Residential DSM Avoided Cost Revenue	Line 29 / Line 30		15%	20%	17%	21%	18%
34	Total Revenue	Line 30 Vintage Total / Line 30 Total Rev Collections		24%	20%	29%	27%	100%
	Cap Adjustment Allocation							
35	Residential	Line 31 * Line 38 Total		$ 6,171,442	$ 4,106,251	$ 5,680,322	$ 4,644,590	$ 20,602,605
36	Non-Residential EE	Line 32 * Line 38 Total		2,648,173	2,752,473	4,598,371	4,307,159	14,306,177
37	Non-Residential DSM	Line 33 * Line 38 Total		1,560,194	1,751,317	2,106,972	2,382,166	7,800,649
38	Total Cap Adjustment	Line 34 * Line 23		$ 10,379,809	$ 8,610,041	$ 12,385,665	$ 11,333,915	$ 42,709,430

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Duke Energy Carolinas, LLC
EE/DSM Vintage 1 True Up for the Period June 1, 2009 to December 31, 2009
Docket Number E-7, Sub 1073
Allocation Factors

Line			MWH
	SAW Sales Allocator		
1	NC Retail MWH Sales Allocation	Company Records	53,842,194
2	SC Retail MWH Sales Allocation	Company Records	19,906,425
3	Total Retail	Line 1 + Line 2	73,748,619
	Allocation 1 to state based on kWh sales		
4	NC Retail	Line 1 / Line 3	**73.0077318%**

			NC	SC	Total
	Demand Allocators				
5	Residential	Company Records	5,281,284	1,692,049	6,973,333
6	Non Residential	Company Records	6,218,623	2,386,563	8,605,186
7	Total	Line 5 + Line 6	11,499,907	4,078,612	15,578,519
	Allocation 2 to state based on peak demand				
8	NC Retail	Line 7, NC / Line 7 Total	**73.8190004%**		
	Allocation 3 NC res vs non-res Peak Demand to retail system peak				
9	NC Residential	Line 5 NC/ Line 7 Total	**33.9010659%**		
10	NC Non-residential	Line 6 NC/ Line 7 Total	**39.9179344%**		

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Duke Energy Carolinas, LLC
EE/DSM Vintage 1 True Up for the Period January 1, 2010 to December 31, 2010
Docket Number E-7, Sub 1073
Allocation Factors

Line			MWH
	SAW Sales Allocator		
1	NC Retail MWH Sales Allocation	Company Records	57,382,346
2	SC Retail MWH Sales Allocation	Company Records	21,540,084
3	Total Retail	Line 1 + Line 2	78,922,430
	Allocation 1 to state based on kWh sales		
4	NC Retail	Line 1 / Line 3	**72.7072722%**

			NC	SC	Total
	Demand Allocators				
5	Residential	Company Records	5,494,974	1,731,591	7,226,565
6	Non Residential	Company Records	6,437,669	2,290,766	8,728,435
7	Total	Line 5 + Line 6	11,932,643	4,022,357	15,955,000
	Allocation 2 to state based on peak demand				
8	NC Retail	Line 7, NC / Line 7 Total	**74.7893638%**		
	Allocation 3 NC res vs non-res Peak Demand to retail system peak				
9	NC Residential	Line 5 NC/ Line 7 Total	**34.4404513%**		
10	NC Non-residential	Line 6 NC/ Line 7 Total	**40.3489126%**		

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Duke Energy Carolinas, LLC
EE/DSM Vintage 2 True Up for the Period January 1, 2011 to December 31, 2011
Docket Number E-7, Sub 1073
Allocation Factors

Line			MWH
	SAW Sales Allocator		
1	NC Retail MWH Sales Allocation	Company Records	55,966,071
2	SC Retail MWH Sales Allocation	Company Records	21,019,094
3	Total Retail	Line 1 + Line 2	76,985,165
	Allocation 1 to state based on kWh sales		
4	NC Retail	Line 1 / Line 3	**72.6972151%**

			NC	SC	Total
	Demand Allocators				
5	Residential	Company Records	5,179,896	1,627,477	6,807,373
6	Non Residential	Company Records	6,788,010	2,476,617	9,264,627
7	Total	Line 5 + Line 6	11,967,906	4,104,094	16,072,000
	Allocation 2 to state based on peak demand				
8	NC Retail	Line 7, NC / Line 7 Total	**74.4643230%**		
	Allocation 3 NC res vs non-res Peak Demand to retail system peak				
9	NC Residential	Line 5 NC/ Line 7 Total	**32.2293181%**		
10	NC Non-residential	Line 6 NC/ Line 7 Total	**42.2350050%**		

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Duke Energy Carolinas, LLC
EE/DSM Vintage 3 True Up for the Period January 1, 2012 to December 31, 2012
Docket Number E-7, Sub 1073
Allocation Factors

Line			MWH
	SAW Sales Allocator		
1	NC Retail MWH Sales Allocation	Company Records	54,555,907
2	SC Retail MWH Sales Allocation	Company Records	20,466,527
3	Total Retail	Line 1 + Line 2	75,022,434
	Allocation 1 to state based on kWh sales		
4	NC Retail	Line 1 / Line 3	**72.7194575%**

			NC	SC	Total
	Demand Allocators				
5	Residential	Company Records	5,588,503	1,732,909	7,321,412
6	Non Residential	Company Records	6,397,286	2,322,302	8,719,588
7	Total	Line 5 + Line 6	11,985,789	4,055,211	16,041,000
	Allocation 2 to state based on peak demand				
8	NC Retail	Line 7, NC / Line 7 Total	**74.7197120%**		
	Allocation 3 NC res vs non-res Peak Demand to retail system peak				
9	NC Residential	Line 5 NC/ Line 7 Total	**34.8388691%**		
10	NC Non-residential	Line 6 NC/ Line 7 Total	**39.8808428%**		

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Duke Energy Carolinas, LLC
EE/DSM Vintage 4 True Up for the Period January 1, 2013 to December 31, 2013
Docket Number E-7, Sub 1073
Allocation Factors

Line			MWH
	SAW & New Mechanism Sales Allocator at Generator		
1	NC Retail MWH Sales Allocation	Company Records	58,149,791
2	SC Retail MWH Sales Allocation	Company Records	21,551,077
3	Total Retail	Line 1 + Line 2	79,700,868
	Allocation 1 to state based on kWh sales		
4	NC Retail	Line 1 / Line 3	**72.9600473%**

			NC	SC	Total
	Demand Allocators				
5	Residential	Company Records	5,051,778	1,502,084	6,553,862
6	Non Residential	Company Records	6,119,392	2,175,746	8,295,138
7	Total	Line 5 + Line 6	11,171,170	3,677,830	14,849,000
	Allocation 2 to state based on peak demand				
8	NC Retail	Line 7, NC / Line 7 Total	**75.2318001%**		
	Allocation 3 NC res vs non-res Peak Demand to retail system peak				
9	NC Residential	Line 5 NC/ Line 7 Total	**34.0209980%**		
10	NC Non-residential	Line 6 NC/ Line 7 Total	**41.2108021%**		

Duke Energy Carolinas, LLC
Vintage 2014-Vintage 2016 Estimate Allocation for the Period January 1, 2014 to December 31, 2016
Docket Number E-7, Sub 1073
Allocation Factors

Line			MWH
	SAW & New Mechanism Sales Allocator at Generator		
1	NC Retail MWH Sales Allocation	Company Records	58,149,791
2	SC Retail MWH Sales Allocation	Company Records	21,551,077
3	Total Retail	Line 1 + Line 2	79,700,868
	Allocation 1 to state based on kWh sales		
4	NC Retail	Line 1 / Line 3	**72.9600473%**

	Demand Allocators		**NC**	**SC**	**Total**
5	Residential	Company Records	5,051,778	1,502,084	6,553,862
6	Non Residential	Company Records	6,119,392	2,175,746	8,295,138
7	Total	Line 5 + Line 6	11,171,170	3,677,830	14,849,000
	Allocation 2 to state based on peak demand				
8	NC Retail	Line 7, NC / Line 7 Total	**75.2318001%**		
	Allocation 3 NC res vs non-res Peak Demand to retail system peak				
9	NC Residential	Line 5 NC/ Line 7 Total	**34.0209980%**		
10	NC Non-residential	Line 6 NC/ Line 7 Total	**41.2108021%**		

NOTE: These allocation factors are used for estimated vintages 2014-2016 based on the latest Cost of Service Study filed in 2014.

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Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 7
Docket Number E-7 Sub 1073
Forecasted kWh Sales for Rate Period for SAW

Fall 2014 Sales Forecast - kWhs

Line		Revised Estimate Total 2015	Total 2016
	North Carolina Retail:		
1	Residential	**21,388,729,000**	**21,674,738,000**
2	Non-Residential	**35,780,312,000**	**36,268,911,000**
3	Total Retail	**57,169,041,000**	**57,943,649,000**

Opt Out Sales

		2014 kwh usage
	Vintage 1 Opt Out	
4	EE	13,296,546,224
5	DSM	13,784,407,762
	Vintage 2 Opt Out	
6	EE	12,973,155,813
7	DSM	13,318,680,372
	Vintage 3 Opt Out	
8	EE	12,711,971,239
9	DSM	13,168,690,059
	Vintage 4 Opt Out	
10	EE	12,302,899,768
11	DSM	13,053,216,824

Non-Residential Forecast Sales Less Opt Out

(for use in Rider 7 Rate Components)

		V1 EE Rate Components	V1 DSM Rate Components	V2 EE Rate Components	V2 DSM Rate Components	V3 EE Rate Components	V3 DSM Rate Components	V4 EE Rate Components	V4 DSM Rate Components
12	Total Non-Residential	36,268,911,000	36,268,911,000	36,268,911,000	36,268,911,000	36,268,911,000	36,268,911,000	36,268,911,000	36,268,911,000
13	Less V1 EE Opt Out	13,296,546,224							
14	Less V1 DSM Opt Out		13,784,407,762						
15	Less V2 EE Opt Out			12,973,155,813					
16	Less V2 DSM Opt Out				13,318,680,372				
17	Less V3 EE Opt Out					12,711,971,239			
18	Less V3 DSM Opt Out						13,168,690,059		
19	Less V4 EE Opt Out							12,302,899,768	
20	Less V4 DSM Opt Out								13,053,216,824
21	Sales for Rider Calculation	**22,972,364,776**	**22,484,503,238**	**23,295,755,187**	**22,950,230,628**	**23,556,939,761**	**23,100,220,941**	**23,966,011,232**	**23,215,694,176**

Non-Residential Forecast Sales Less Opt Out

(for use in updated 2015 Revenue estimate)

		V1 EE Rate Components	V1 DSM Rate Components	V2 EE Rate Components	V2 DSM Rate Components	V3 EE Rate Components	V3 DSM Rate Components	V4 EE Rate Components	V4 DSM Rate Components
22	Total Non-Residential	35,780,312,000	35,780,312,000	35,780,312,000	35,780,312,000	35,780,312,000	35,780,312,000	35,780,312,000	35,780,312,000
23	Less V1 EE Opt Out	13,296,546,224							
24	Less V1 DSM Opt Out		13,784,407,762						
25	Less V2 EE Opt Out			12,973,155,813					
26	Less V2 DSM Opt Out				13,318,680,372				
27	Less V3 EE Opt Out					12,711,971,239			
28	Less V3 DSM Opt Out						13,168,690,059		
29	Less V4 EE Opt Out							12,302,899,768	
30	Less V4 DSM Opt Out								13,053,216,824
31	Sales for Rider Calculation	**22,483,765,776**	**21,995,904,238**	**22,807,156,187**	**22,461,631,628**	**23,068,340,761**	**22,611,621,941**	**23,477,412,232**	**22,727,095,176**

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Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 7
Docket Number E-7 Sub 1073
Forecasted kWh Sales for Rate Period for Vintage Years 2014-2016

Line		Total 2015	Total 2016
	Fall 2014 Sales Forecast - kWhs		
	North Carolina Retail:		
1	Residential	**21,388,729,000**	**21,674,738,000**
2	Non-Residential	**35,046,050,545**	**35,534,649,545**
3	Total Retail	**56,434,779,545**	**57,209,387,545**

Opt Out Sales

		2014 kWh Usage
	Vintage 2014 Estimated Opt Out	
4	EE	11,710,358,468
5	DSM	12,396,526,283
	Vintage 2015 Estimated Opt Out	
6	EE	11,780,971,318
7	DSM	12,451,913,984
	Vintage 2016 Estimated Opt Out	
8	EE	11,780,971,318
9	DSM	12,451,913,984

Non-Residential Forecast Sales Less Opt Out (to be used for Rider 7 Rate Components)

		2014 EE Rate Components	2014 DSM Rate Components	2015 EE Rate Components	2015 DSM Rate Components	2016 EE Rate Components	2016 DSM Rate Components
10	Total Non-Residential	35,534,649,545	35,534,649,545	35,534,649,545	35,534,649,545	35,534,649,545	35,534,649,545
11	Less V2014 Estimated Opt Out	11,710,358,468					
12	Less V2014 Estimated DSM Opt Out		12,396,526,283				
13	Less V2015 Estimated EE Opt Out			11,780,971,318			
14	Less V2015 Estimated DSM Opt Out				12,451,913,984		
15	Less V2016 Estimated EE Opt Out					11,780,971,318	
16	Less V2016 Estimated DSM Opt Out						12,451,913,984
17	Sales for Rider Calculation	**23,824,291,077**	**23,138,123,262**	**23,753,678,227**	**23,082,735,561**	**23,753,678,227**	**23,082,735,561**

Non-Residential Forecast Sales Less Opt Out (to be used for updated Rider 6 revenue estimate)

		2014 EE Rate Components	2014 DSM Rate Components	2015 EE Rate Components	2015 DSM Rate Components	2016 EE Rate Components	2016 DSM Rate Components
18	Total Non-Residential	35,046,050,545	35,046,050,545	35,046,050,545	35,046,050,545	35,046,050,545	35,046,050,545
19	Less V2014 Estimated Opt Out	11,710,358,468					
20	Less V2014 Estimated DSM Opt Out		12,396,526,283				
21	Less V2015 Estimated EE Opt Out			11,780,971,318			
22	Less V2015 Estimated DSM Opt Out				12,451,913,984		
23	Less V2016 Estimated EE Opt Out					11,780,971,318	
24	Less V2016 Estimated DSM Opt Out						12,451,913,984
25	Sales for Rider Calculation	**23,335,692,077**	**22,649,524,262**	**23,265,079,227**	**22,594,136,561**	**23,265,079,227**	**22,594,136,561**

Miller Exhibit 7 I/A

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RIDER EE (NC)
ENERGY EFFICIENCY RIDER

APPLICABILITY (North Carolina Only)
Service supplied under the Company's rate schedules is subject to approved adjustments for new energy efficiency and demand-side management programs approved by the North Carolina Utilities Commission (NCUC). The Rider Adjustments are not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate. Cost recovery under Rider EE consists of two four-year term programs, years 2009 – 2013 and years 2014 – 2017 as outlined separately below. This rider applies to service supplied under all rate schedules for program years 2009-2013 but does not apply to Rate Schedules OL, FL, PL, GL, and NL for program years 2014-2017.

I. PROGRAM YEARS 2009-2013

GENERAL PROVISIONS
This Rider will recover the cost of new energy efficiency and demand-side management programs, using the method approved by the NCUC, for programs implemented over a four-year period (*i.e.*, comprising four 12-month program years or "Vintage Years"). In each year this Rider will include components to recover revenue requirements related to demand-side management and energy efficiency programs implemented in that Vintage Year, as well as net lost revenues resulting from the energy efficiency programs. Net lost revenues are revenue losses, net of both marginal costs avoided at the time of the lost kilowatt hour sale(s) and increases in revenues resulting from any activity by the Company's public utility operations that cause a customer to increase demand or energy consumption. Net lost revenues associated with each Vintage Year will be recovered for 36 months upon implementation, except that the recovery of net lost revenues will end upon implementation of new rates approved by the Commission in a general rate case or comparable proceeding to the extent that rates are set in a rate case for vintages up to that point. To recover net lost revenues for programs implemented in years 3 and 4, the Rider will continue beyond the four-year period.

Revenue requirements will be determined on a system basis and allocated to North Carolina retail customers based on the North Carolina retail contribution to system retail peak demand for demand side management programs and North Carolina retail contribution to system retail kWh sales for energy efficiency programs. Residential customer classes will pay for residential programs and non-residential customer classes will pay for non-residential programs through methods found appropriate by the Commission for demand-side management and energy efficiency programs, respectively. All allocation factors will be based on the Company's most recently completed cost of service study utilizing the allocation method approved by NCUC in the Company's most recent general rate proceeding and will exclude the amounts related to customers that elect to opt out of this Rider.

TRUE-UP PROVISIONS
Rider amounts will initially be determined based on estimated kW and kWh impacts related to expected customer participation in the programs, and will be trued-up as actual customer participation and actual kW and kWh impacts are verified. If a customer participates in any vintage of programs, the customer is subject to the true-ups as discussed in this section for any vintage of programs in which the customer participated.

Participation true-ups: After the completion of the first Vintage Year, the Rider will include a true-up of previous Rider amounts billed to reflect actual customer participation in the programs.

Measurement and verification true-up: In the seventh year a final true-up will be based on changes in participation combined with actual verified kW and kWh savings.

Earnings cap true-up: In the seventh year, a true up will adjust customer bills, if applicable, to refund with interest, amounts collected through the Rider in excess of the earnings cap, in accordance with the following levels of achievement of actual energy and peak demand reductions and allowed return on investment.

Percentage Actual Target Achievement	Return on Investment Cap on Program Costs Percentage
>=90%	15%
80% to 89%	12%
60% to 79%	9%
< 60%	5%

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RIDER EE (NC)
ENERGY EFFICIENCY RIDER

DETERMINATION OF ENERGY EFFICIENCY RIDER ADJUSTMENT

Energy Efficiency Adjustments (EEA) will be applied to the energy in kilowatt hours (kWh) billed of all rate schedules for each vintage as determined by the following formula, adjusted as appropriate for the time value of money:

EEA Residential (expressed as cents per kWh) =

(Residential Avoided Cost Revenue Requirement + Residential Net Lost Revenues) / Forecasted Residential kWh Sales for the Rider billing period

Where
Residential Avoided Cost Revenue Requirement = (Residential Demand-Side Management Program Avoided Cost X 75%) + (Residential Energy Efficiency Program Avoided Cost X 50%)

EEA Non-residential (expressed as cents per kWh) =

(Non-residential Avoided Cost Revenue Requirement + Non-residential Net Lost Revenues) / Forecasted Non-residential kWh Sales for the Rider billing period

Where
Non-residential Avoided Cost Revenue Requirement = (Non-residential Demand-Side Management Program Avoided Cost X 75%) + (Non-residential Energy Efficiency Program Avoided Cost X 50%)

II. PROGRAM YEARS 2014-2017

GENERAL PROVISIONS

This Rider will recover the cost of new energy efficiency and demand-side management programs, using the method approved by the NCUC, for programs implemented over a four-year period (*i.e.*, comprising four 12-month program years or "Vintage Years").

TRUE-UP PROVISIONS

Rider amounts will initially be determined based on estimated kW and kWh impacts related to expected customer participation in the programs, and will be trued-up as actual customer participation and actual kW and kWh impacts are verified. If a customer participates in any vintage of programs, the customer is subject to the true-ups as discussed in this section for any vintage of programs in which the customer participated.

RIDER EE OPT OUT PROVISION FOR QUALIFYING NON-RESIDENTIAL CUSTOMERS

The Rider EE increment applicable to energy efficiency programs and/or demand-side management programs will not be applied to the energy charge of the applicable rate schedule for Customers qualified to opt out of the programs where:

a. The Customer has notified the Company that it has, or has plans for implementing alternative energy efficiency measures in accordance with quantifiable goals.
b. Electric service to the Customer must be provided under:
    1. An electric service agreement where the establishment is classified as a "manufacturing industry" by the Standard Industrial Classification Manual published by the United States Government and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes. Additionally, all other agreements billed to the same entity associated with the manufacturing industry located on the same or contiguous properties are also eligible to opt out.
    2. An electric service agreement for general service as provided for under the Company's rate schedules where the Customer's annual energy use is 1,000,000 kilowatt hours or more. Additionally, all other agreements billed to the same entity with lesser annual usage located on the same or contiguous properties are also eligible to opt out.

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RIDER EE (NC)
ENERGY EFFICIENCY RIDER

The following additional provisions apply for qualifying customers who elect to opt out

For Customers who elect to opt out of energy efficiency programs, the following provisions also apply

- Qualifying customers may opt out of the Company's energy efficiency programs each calendar year only during the annual two-month enrollment period between November 1 and December 31 immediately prior to a new Rider EE becoming effective on January 1 (Qualifying new customers have sixty days after beginning service to opt out)
- Customers may not opt out of individual energy efficiency programs offered by the Company The choice to opt out applies to the Company's entire portfolio of energy efficiency programs
- If a customer participates in any vintage of energy efficiency programs, the customer, irrespective of future opt out decisions, remains obligated to pay the remaining portion of the lost revenues for each vintage of energy efficiency programs in which the customer participated
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's energy efficiency programs during the first 5 business days of March each calendar year Customers making this election will be back-billed retroactively to the effective date of the new Rider EE

For Customers who elect to opt out of demand-side management programs, the following provisions also apply

- Qualifying customers may opt out of the Company's demand-side management program during the enrollment period between November 1, and December 31immediately prior to a new Rider EE becoming effective on January 1 of the applicable year (Qualifying new customers have sixty days after beginning service to opt out)
- If a customer elects to participate in a demand-side management program, the customer may not subsequently choose to opt out of demand-side management programs for three years
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's demand-side management program during the first 5 business days of March each calendar year Customers making this election will be back-billed to the effective date of the new Rider EE

Any qualifying non-residential customer that has not participated in an energy efficiency or demand-side management program may opt out during any enrollment period, and have no further responsibility to pay Rider EE amounts associated with the Customer's opt out election for energy efficiency and/or demand-side management programs

ENERGY EFFICIENCY RIDER ADJUSTMENTS (EEA) FOR ALL PROGRAM YEARS

The Rider EE amounts applicable to the residential and nonresidential rate schedules for the period January 1, 2016 through December 31, 2016 including utility assessments are as follows

Residential	Vintage 1, 2, 3,4, and 2014[1]	0 0251¢ per kWh
	Vintage 2014[2], 2015, 2016	0 3324¢ per kWh
	Total Residential Rate	0 3575¢ per kWh
Nonresidential		
Vintage 1		
	Energy Efficiency	0 0025¢ per kWh
	Demand Side Management	0 0016¢ per kWh
Vintage 2		
	Energy Efficiency	0 0146¢ per kWh
	Demand Side Management	0 0018¢ per kWh
Vintage 3		
	Energy Efficiency	0 0259¢ per kWh
	Demand Side Management	(0.0008)¢ per kWh

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RIDER EE (NC)
ENERGY EFFICIENCY RIDER

Vintage 4	
Energy Efficiency	0.0330¢ per kWh
Demand Side Management	0.0003¢ per kWh
Vintage 2014[3]	
Energy Efficiency	0.0405¢ per kWh
Demand Side Management	(0.0043)¢ per kWh
Vintage 2015[3]	
Energy Efficiency	0.0345¢ per kWh
Demand Side Management	NA
Vintage 2016[3]	
Energy Efficiency	0.2164¢ per kWh
Demand Side Management	0.0709¢ per kWh
Total Nonresidential	0.4369¢ per kWh

[1] Includes the true-up of program costs, shared savings and lost revenues from Year 1 of Vintage 2014
[2] Includes the estimate of Year 3 lost revenues of Vintage 2014
[3] Not Applicable to Rate Schedules OL, FL, PL, GL, and NL

Each factor listed under Nonresidential is applicable to nonresidential customers who are not eligible to opt out and to eligible customers who have not opted out. If a nonresidential customer has opted out of a Vintage(s), then the applicable energy efficiency and/or demand-side management charge(s) shown above for the Vintage(s) during which the customer has opted out, will not apply to the bill.

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Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 7
Docket Number E-7 Sub 1073
Exhibit Summary for Rider EE Exhibits and Factors

Residential Billing Factors

Residential Billing Factor for Rider 7 True-up (EMF) Components

Line					
1	Vintage 1 EE/DSM True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 1, Line 11	$	1,668,314	
2	Vintage 2 EE/DSM True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 2, Line 11		3,177,348	
3	Vintage 3 EE/DSM True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 3, Line 11		(4,004,005)	
4	Vintage 4 EE/DSM True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 4, Line 11		4,129,838	
5	Year 2014 EE/DSM True Up (EMF) Revenue Requirement	Miller Exhibit 2 pg 5, Line 15		666,440	
6	Total True up (EMF) Revenue Requirement	Sum Lines 1-5	$	5,637,935	
7	Projected NC Residential Sales (kWh) for rate period	Miller Exhibit 6 pg 1, Line 1		21,674,738,000	
8	*SAW EE/DSM Revenue Requirement EMF Residential Rider EE (cents per kWh)*	Line 6 / Line 7 * 100		**0 0260**	Application

Residential Billing Factor for Rider 7 Prospective Components

9	Vintage 2014 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 5, Line 15	$	9,895,892	
10	Vintage 2015 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 6, Line 1		4,071,955	
11	Vintage 2016 Total EE/DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 7, Line 11		58,886,406	
12	Total Prospective Revenue Requirement	Sum Lines 9 11	$	72,854,253	
13	Projected NC Residential Sales (kWh) for rate period	Miller Exhibit 6 pg 1, Line 1		21,674,738,000	
14	*SAW EE/DSM Revenue Requirement Prospective Residential Rider EE (cents per kWh)*	Line 12 / Line 13 * 100		**0 3361**	Application

Total Revenue Requirements in Rider 7 from Residential Customers

15	Total True up (EMF) Revenue Requirement	Line 6	$	5,637,935
16	Total Prospective Revenue Requirement	Line 12		72,854,253
17	***Total EE/DSM Revenue Requirement for Residential Rider EE***	Line 15 + Line 16	**$**	**78,492,189**
18	***Total EE/DSM Revenue Requirement for Residential Rider EE (cents per kWh)***	Line 8 + Line 14		**0.3621**

Non-Residential Billing Factors for Rider 7 True-up (EMF) Components

Line					
	SAW EE Revenue Requirements True-up (EMF)				
1	Vintage 1 EE True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 1, Line 20	$	613,874	
2	Projected Vintage 1 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		22,972,364,776	
3	*SAW EE Revenue Requirement Vintage 1 EMF Non Residential Rider EE (cents per kWh)*	Line 1/Line 2 * 100		**0.0027**	Application
4	Vintage 1 DSM True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg 1, Line 29	$	388,582	
5	Projected Vintage 1 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		22,484,503,238	
6	*SAW DSM Revenue Requirement Vintage 1 EMF Non Residential Rider EE (cents per kWh)*	Line 4/Line 5 * 100		**0.0017**	Application
7	Vintage 2 EE True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 2, Line 20	$	3,442,055	
8	Projected Vintage 2 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		23,295,755,187	
9	*SAW EE Revenue Requirement Vintage 2 EMF Non-Residential Rider EE (cents per kWh)*	Line 7/Line 8 * 100		**0.0148**	Application
10	Vintage 2 DSM True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 2, Line 29	$	428,535	
11	Projected Vintage 2 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		22,950,230,628	
12	*SAW DSM Revenue Requirement Vintage 2 EMF Non Residential Rider EE (cents per kWh)*	Line 10/Line 11 * 100		**0.0019**	Application
13	Vintage 3 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg 3, Line 20	$	6,155,063	
14	Projected Vintage 3 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		23,556,939,761	
15	*SAW EE Revenue Requirement Vintage 3 EMF Non Residential Rider EE (cents per kWh)*	Line 13/Line 14 * 100		**0.0261**	Application

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Non-Residential Billing Factors Continued

Supplemental Miller Exhibit 1, page 2

16	Vintage 3 DSM True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 3, Line 29	$	(402,296)	
17	Projected Vintage 3 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		23,100,220,941	
18	*SAW DSM Revenue Requirement Vintage 3 EMF Non-Residential Rider EE (cents per kWh)*	Line 16/Line 17 * 100		**(0.0017)**	Application
19	Vintage 4 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg 4, Line 20	$	7,819,931	
20	Projected Vintage 4 EE Participants NC Non Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		23,966,011,232	
21	*SAW EE Revenue Requirement Vintage 4 EMF Non-Residential Rider EE (cents per kWh)*	Line 19/Line 20 * 100		**0.0326**	Application
22	Vintage 4 DSM True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 4, Line 29	$	105,113	
23	Projected Vintage 4 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 1, Line 21		23,215,694,176	
24	*SAW DSM Revenue Requirement Vintage 4 EMF Non-Residential Rider EE (cents per kWh)*	Line 22/Line 23 * 100		**0.0005**	Application
25	Year 2014 EE True-up (EMF) Revenue Requirement	Miller Exhibit 2 pg 5, Line 25	$	3,581,616	
26	Projected Vintage 4 EE Participants NC Non Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 2, Line 17		23,824,291,077	
27	*SAW EE Revenue Requirement Vintage 4 EMF Non Residential Rider EE (cents per kWh)*	Line 25/Line 26 * 100		**0.0150**	Application
28	Year 2014 DSM True up (EMF) Revenue Requirement	Miller Exhibit 2 pg 5, Line 35	$	(1,012,916)	
29	Projected Vintage 4 DSM Participants NC Non Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 2, Line 17		23,138,123,262	
30	*SAW DSM Revenue Requirement Vintage 4 EMF Non Residential Rider EE (cents per kWh)*	Line 28/Line 29 * 100		**(0 0044)**	Application

Non-Residential Billing Factors for Rider 7 Prospective Components

31	Vintage 2014 EE Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 5, Line 25	$	6,094,150	
32	Projected Program Year 2014 EE Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 2, Line 17		23,824,291,077	
33	*EE Revenue Requirement Vintage 2014 Prospective Component for Non-Residential Rider EE (cents per kWh)*	Line 31/Line 32 * 100		**0.0256**	Application
34	Vintage 2015 EE Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 6, Line 4	$	8,194,003	
35	Projected Program Year 2015 EE Participants NC Non Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 2, Line 17		23,753,678,227	
36	*EE Revenue Requirement Vintage 2015 Prospective Component for Non Residential Rider EE (cents per kWh)*	Line 34/Line 35 * 100		**0.0345**	Application
37	Vintage 2016 EE Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 7, Line 18	$	51,408,650	
38	Projected Program Year 2016 EE Participants NC Non Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 2, Line 17		23,753,678,227	
39	*EE Revenue Requirement Vintage 2016 Prospective Component for Non Residential Rider EE (cents per kWh)*	Line 37/Line 38 * 100		**0 2164**	Application
40	Vintage 2016 DSM Prospective Amounts Revenue Requirement	Miller Exhibit 2 pg 7, Line 25	$	16,375,648	
41	Projected Vintage 2016 DSM Participants NC Non-Residential Sales (kwh) for rate period	Miller Exhibit 6 pg 2, Line 21		23,082,735,561	
42	*DSM Revenue Requirement Vintage 2016 Prospective Component for Non Residential Rider EE (cents per kWh)*	Line 40/Line 41 * 100		**0.0709**	Application
	Total EMV Rate			**0 0892**	
	Total Prospective Rate			**0 3474**	

Total Revenue Requirements in Rider 7 from Non-Residential Customers

43	Vintage 1 EE True up (EMF) Revenue Requirement	Line 1	$	613,874	
44	Vintage 1 DSM True up (EMF) Revenue Requirement	Line 4		388,582	
45	Vintage 2 EE True-up (EMF) Revenue Requirement	Line 7		3,442,055	
46	Vintage 2 DSM True up (EMF) Revenue Requirement	Line 10		428,535	
47	Vintage 3 EE True up (EMF) Revenue Requirement	Line 13		6,155,063	
48	Vintage 3 DSM True up (EMF) Revenue Requirement	Line 16		(402,296)	
49	Vintage 4 EE True-up (EMF) Revenue Requirement	Line 19		7,819,931	
50	Vintage 4 DSM True-up (EMF) Revenue Requirement	Line 22		105,113	
51	Year 2014 EE True up (EMF) Revenue Requirement	Line 25		3,581,616	
52	Year 2014 DSM True-up (EMF) Revenue Requirement	Line 28		(1,012,916)	
53	Vintage 2014 EE Prospective Amounts Revenue Requirement	Line 31		6,094,150	
54	Vintage 2015 EE Prospective Amounts Revenue Requirement	Line 34		8,194,003	
55	Vintage 2016 EE Prospective Amounts Revenue Requirement	Line 37		51,408,650	
56	Vintage 2016 DSM Prospective Amounts Revenue Requirement	Line 40		16,375,648	
	Total Non-Residential Revenue Requirement in Rider 7	Sum (Lines 43-56)	**$**	**103,192,008**	Application

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May 15 2015

Duke Energy Carolinas, LLC
EE/DSM Vintage 1 (June 1, 2009 - December 31, 2010)
Docket Number E-7 Sub 1073
True-Up of Avoided Cost and Lost Revenues Revenue Requirements For Vintage 1

RESIDENTIAL

Line			Rider 4 DSM True up of Original Filing, EE Vintage 1, Year 1 and 2 True up	Rider 5 2014 True Up	Rider 6 Implementation of Earnings Cap	Rider 6 2015 True up of 85% to 100%	Rider 7 2016 True up		Vintage 1 - Residential
1	EE Avoided Cost Component	Barnes Exhibit 1 pg 1 and 2	30,387,136	(448,752)		5,283,244			35,221,629
2	DSM Avoided Cost Component	Barnes Exhibit 1 pg 1 and 2	8,225,364			1,451,535	(11,701)	1	9,665,198
3	Total EE and DSM Avoided Cost	Line 1 + Line 2	38,612,500	(448,752)		6,734,779	(11,701)		44,886,827
4	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 35			(6,558,951)		458,260	2	(6,100,691)
5	DSM/EE Avoided Cost Component adjusted for Cap	Line 3 + Line 4	38,612,500	(448,752)	(6,558,951)	6,734,779	446,559		38,786,136
6	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 017953	1 001352	1 001352	1 001352		various
7	Adjusted Avoided Cost Revenue Requirement	Line 5 * Line 6	39,946,717	(456,808)	(6,567,819)	6,743,885	447,163		40,113,138
8	Residential Lost Revenues	Barnes Exhibit 2 pg 1, Line 7	20,983,465	(500,574)		3,614,629			24,097,520
9	Total Residential Revenue Requirement	Line 7 + Line 8	60,930,181	(957,381)	(6,567,819)	10,358,513	447,163		64,210,658
10	Total Collected for Vintage 1 (Riders 1-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 1 + Line 7							62,542,343
11	**Residential EE/DSM Revenue Requirement True-up Amount**	Line 9 Line 10							1,668,314

NON-RESIDENTIAL

Energy Efficiency

			Rider 4 Vintage 1, Year 1 and Year 2 Net Lost Revenue True Up	Rider 5 2014 True up	Rider 6 Implementation of Earnings Cap and True up	Rider 6 2015 True up of 85% to 100%	Rider 7 2016 True up		Vintage 1 - EE
12	Non Residential EE Avoided Cost Component	Barnes Exhibit 1 pg 1 and 2	16,001,071		(3)	2,823,718			18,824,786
13	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 36			(2,799,117)		181,303	2	(2,617,814)
14	EE Avoided Cost Component Adjusted for Cap	Line 12 + Line 13	16,001,071		(2,799,120)	2,823,718	181,303		16,206,972
15	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 017953	1 001352	1 001352	1 001352		various
16	Total Non-Residential EE Avoided Cost Revenue Requirement	Line 14 * Line 15	16,553,972		(2,802,904)	2,827,536	181,548		16,760,152
17	Non Residential Lost Revenues	Barnes Exhibit 2 pg 1, Line 16	1,666,731	1,974		294,478			1,963,183
18	Total Non Residential EE Revenue Requirement	Line 16 + Line 17	18,220,703	1,974	(2,802,904)	3,122,014	181,548		18,723,335
19	Total Collected for Vintage 1 (Riders 1-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 14							18,109,461
20	Non Residential EE Revenue Requirement True-up Amount	Line 18 - Line 19	18,220,703	1,974	(2,802,904)	3,122,014	181,548		613,874
21	Projected NC Non Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1, Line 21							22,972,364,776
22	**Non-Residential Rider EE (cents per kWh)**	Line 20/Line 21*100							**0.0027**

DSM

			Rider 4 2013 True up of Original Filing	Rider 5 2014 True up	Rider 6 2015 True up of Costs	Rider 6 2015 True up of 85% to 100%	Rider 7 2016 True up		Vintage 1 - DSM
23	Non-Residential DSM Avoided Cost Component	Barnes Exhibit 1 pg 1 and 2	$ 9,644,425			1,701,957	$ (13,709)	1	$ 11,332,673
24	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 37			(1,629,074)		86,766	2	(1,542,308)
25	Non Residential DSM Avoided Cost Component adjusted for Cap	Line 23 + Line 24	9,644,425	-	(1,629,074)	1,701,957	73,057		9,790,365
26	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 017953	1 001352	1 001352	1 001352		various
27	Total Non-Residential DSM Revenue Requirement	Line 25 * Line 26	9,977,678	-	(1,631,277)	1,704,258	73,156		10,123,816
28	Total Collected for Vintage 1 (Riders 1-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 20							9,735,234
29	Non-Residential DSM Revenue Requirement True up Amount	Line 27 Line 28							388,582
30	Projected NC Non Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1, Line 21							22,484,503,238
31	**Non-Residential Rider EE (cents per kWh)**	Line 29/Line 30*100							**0.0017**

1 Adjustments to DSM participation were identified and trued up in 2014

2 The cap adjustment factor was updated in Miller Exhibit 4 for actual 2014 collections and estimated 2015 collections

Duke Energy Carolinas, LLC
EE/DSM Vintage 2 (January 1, 2011 - December 31, 2011)
Docket Number E-7, Sub 1073
True-Up of Avoided Cost and Lost Revenues Revenue Requirements For Vintage 2

RESIDENTIAL

Line			Rider 3	Rider 4	Rider 5	Rider 6	Rider 6	Rider 7		
			Year 2 Lost Revenues	DSM True up of Original Filing, EE Vintage 1, Year 1 and 2 True up	2014 True up	Implementation of Earnings Cap and Lost Revenue True up	2015 True up of 85% to 100%	2016 True up		Vintage 2 - Residential
1	EE Avoided Cost Component	Barnes Exhibit 1 pg 3, Line 7		26,136,185	(170,313)		4,587,213			30,548,085
2	DSM Avoided Cost Component	Barnes Exhibit 1 pg 3, Line 8		8,254,399			1,456,659	(9,391)	1	9,701,667
3	Total EE and DSM Avoided Cost	Line 1 + Line 2		34,390,584	(170,313)		6,038,871	(9,391)		40,249,752
4	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 35				(6,424,112)		2,364,936	2	(4,059,176)
5	DSM/EE Avoided Cost Component adjusted for Cap	Line 3 + Line 4		34,390,584	(170,313)	(6,424,112)	6,038,871	2,355,545		36,190,576
6	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13		1 034554	1 017953	1 001352	1 001352	1 001352		various
7	Adjusted Avoided Cost Revenue Requirement	Line 5 * Line 6		35,578,917	(173,370)	(6,432,797)	6,047,036	2,358,730		37,378,515
8	Residential Lost Revenues	Barnes Exhibit 2 pg 1	8,004,542	6,258,786	7,255,706	13,337,882	3,797,477		3	38,654,393
9	Total Residential Revenue Requirement	Line 7 + Line 8	8,004,542	41,837,703	7,082,336	6,905,085	9,844,513	2,358,730		76,032,908
10	Total Collected for Vintage 2 (Riders 2-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 2 + Line 8								72,855,560
11	**Residential EE/DSM Revenue Requirement True-up Amount**	Line 9 - Line 10								3,177,348

See Miller Exhibit A for rate

NON-RESIDENTIAL
Energy Efficiency

			Rider 3	Rider 4	Rider 5	Rider 6	Rider 6	Rider 7		
			Year 2 Lost Revenues	Vintage 2 True up, and Year 1 Net Lost Revenue True Up	2014 True up	Implementation of Earnings Cap and True up	2015 True up of 85% to 100%	2016 True up		Vintage 2 - EE
12	Non Residential EE Avoided Cost Component	Barnes Exhibit 1 pg 3, Line 16		18,308,367			3,230,888	973,347	1	22,512,602
13	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 36				(3,144,091)		423,173	2	(2,720,918)
14	EE Avoided Cost Component Adjusted for Cap	Line 12 + Line 13		18,308,367	-	(3,144,091)	3,230,888	1,396,520		19,791,684
15	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13		1 034554	1 017953	1 001352	1 001352	1 001352		various
16	Total Non Residential EE Avoided Cost Revenue Requirement	Line 14 * Line 15		18,940,994		(3,148,342)	3,235,256	1,398,408		20,426,317
17	Non-Residential Lost Revenues	Barnes Exhibit 2 pg 1	951,833	1,158,807	1,388,161	1,974,320	617,436	1,032,441	3	7,122,998
18	Total Non Residential EE Revenue Requirement	Line 16 + Line 17	951,833	20,099,801	1,388,161	(1,174,022)	3,852,692	2,430,849		27,549,315
19	Total Collected for Vintage 2 (Riders 2-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 15								24,107,260
20	Non-Residential EE Revenue Requirement True up Amount	Line 18 Line 19	951,833	20,099,801	1,388,161	(1,174,022)	3,852,692	2,430,849		3,442,055
21	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1, Line 21								23,295,755,187
22	**Non-Residential Rider EE (cents per kWh)**	Line 20/Line 21*100								**0.0148**

DSM

			Rider 4	Rider 5	Rider 6	Rider 6	Rider 7		
			2013 True up of Original Filing & year 1 Lost Revenues	2014 True up	2015 True up of Costs	2015 True up of 85% to 100%	2016 True up		Vintage 2 - DSM
23	Non Residential DSM Avoided Cost Component	Barnes Exhibit 1 pg 3, Line 17	$ 10,817,002			1,908,883	$ (12,307)	1	$ 12,713,578
24	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 37			(1,823,758)		92,518	2	(1,731,240)
25	Non-Residential DSM Avoided Cost Component adjusted for Cap	Line 23 + Line 24	10,817 002		(1,823,758)	1,908,883	80 211		10,982,338
26	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 017953	1 001352	1 001352	1 001352		various
27	Total Non Residential DSM Revenue Requirement	Line 25 * Line 26	11 190,773		(1,826,224)	1,911,464	80,320		11,356,332
28	Total Collected for Vintage 2 (Riders 2-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 21							10,927,797
29	Non Residential DSM Revenue Requirement True up Amount	Line 27 Line 28							428,535
30	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1, Line 21							22,950,230,628
31	**Non-Residential Rider EE (cents per kWh)**	Line 29/Line 30*100							**0 0019**

1 Adjustments to DSM participation were identified and trued up in 2014 The Company has also received final EM&V and participation for EE programs

2 The cap adjustment factor was updated in Miller Exhibit 4 for actual 2014 collections and estimated 2015 collections

3 Lost Revenue estimates have been subject to a final true-up subject to results of EM&V and participation Year by year details are shown at Barnes Exhibit 2 page 1 component can be found at Barnes Exhibit 1, page 3 and revised details of the lost revenue estimate can be found in Barnes Exhibit 2, page 1

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Duke Energy Carolinas, LLC
EE/DSM Vintage 3 (January 1, 2012 - December 31, 2012)
Docket Number E-7, Sub 1073
True-Up of Avoided Cost Revenue Requirements For Vintage 3
True-up of Lost Revenues for Years 1, 2 and 3

Line	*RESIDENTIAL*		Rider 5 True up of Original Filing & Year 3 Lost Rev. Estimate	Rider 4 2013 Year 2 Lost Revenues	Rider 6 2014 True up of Costs, year 1 & 2 & Year 3 Lost Revenues	Rider 6 2015 Y4 Lost Revenue Estimate	Rider 6 2015 True up of 85% to 100%	Rider 7 2016 True up		Vintage 3 - Residential
1	FE Avoided Cost Component	Barnes Exhibit 1 pg 4, Line 8	19,337,997		24,489		3,412,588	(177,138)	1	22,597,936
2	DSM Avoided Cost Component	Barnes Exhibit 1 pg 4, Line 9	8,254,399		2,954,233		1,456,659	(7,883)	1	12,657,408
3	Total EE and DSM Avoided Cost	Line 1 + Line 2	27,592,397	0	2,978,722	0	4,869,246	(185,021)		35,255,344
4	Cap Adjustment factor	Miller Exhibit 4 pg, 1, Line 35			(4,744,563)			(870,639)	2	(5,615,202)
5	DSM/EE Avoided Cost Component adjusted for Cap	Line 3 + Line 4	27,592,397	-	(1,765,841)		4,869,246	(1,055,660)		29,640,142
6	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 017953	1 034554	1 001352	1 001352	1 001352	1 001352		various
7	Adjusted Avoided Cost Revenue Requirement	Line 5 * Line 6	28,087,763	-	(1,768,228)		4,875,830	(1,057,087)		30,138,277
8	Residential Lost Revenues	Barnes Exhibit 2 pg 1	10,158,215	3,047,820	5,574,330	1,595,954	2,330,477	2,992,431	3	25,699,227
9	Total Residential Revenue Requirement	Line 7 + Line 8	38,245,978	3,047,820	3,806,101	1,595,954	7,206,306	1,935,344		55,837,504
10	Total Collected for Vintage 3 (Riders 3 5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 3 + Line 9								59,841,509
11	**Residential EE/DSM Revenue Requirement True-up Amount**	Line 9 - Line 10								(4,004,005)

See Miller Exhibit A for rate

	NON-RESIDENTIAL		Rider 5 True up of Original Filing & Year 3 Lost Rev Estimate	Rider 4 2013 Year 2 Lost Revenues	Rider 6 2014 True up of Costs, year 1 & 2 & Year 3 Lost Revenues	Rider 6 2015 Y4 Lost Revenue Estimate	Rider 6 2015 True up of 85% to 100%	Rider 7 2016 True up		Vintage 3 - Non-Residential EE
	Energy Efficiency									
12	Non-Residential EE Avoided Cost Component	Barnes Exhibit 1 pg 4, Line 17	27,084,888		715,578		4,779,686	516,587	1	33,096,739
13	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 36			(4,657,296)			111,641	2	(4,545,655)
14	EE Avoided Cost Component Adjusted for Cap	Line 12 + Line 13	27,084,888		(3,941,718)	-	4,779,686	628,228		28,551,084
15	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 034554	1 017953	1 001352	1 001352	1 001352		various
16	Total Non Residential EE Avoided Cost Revenue Requirement	Line 14 * Line 15	28,020,779		(4,012,484)		4,786,148	629,078		29,423,522
17	Non-Residential Lost Revenues	Barnes Exhibit 2 pg 1	3,981,059	1,418,749	3,017,303	1 205,284	952,907	3,025,638	3	13,600,940
18	Total Non-Residential EE Revenue Requirement	Line 16 + Line 17	32,001,838 3	1,418,749	(995,181)	1,205,284	5,739,055	3,654,716		43,024,462
19	Total Collected for Vintage 3 (Riders 3-5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1, Line 16								36,869,399
20	Non-Residential EE Revenue Requirement True-up Amount	Line 18 - Line 19								6,155,063
21	Projected NC Non Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1, Line 21								23,556,939,761
22	**Non-Residential Rider EE (cents per kWh)**	Line 20/Line 21*100								**0.0261**

Note Vintage 3 Year 3 lost revenues will be trued up in Rider 7

	DSM		Rider 5 True up of Original Filing & Year 3 Lost Rev Estimate	Rider 4 2013 Year 2 Lost Revenues	Rider 6 2014 True up of Costs, year 1 & 2 & Year 3 Lost Revenues	Rider 6 Implementation of Earnings Cap	Rider 6 2015 True up of 85% to 100%	Rider 7 2016 True up		Vintage 3 - Non Residential DSM
23	Non Residential DSM Avoided Cost Component	Barnes Exhibit 1 pg 4	10,817,002		1,772,361		1,908,883	(9,025)	1	14,489,221
24	Cap Adjustment factor	Miller Exhibit 4				(1,860,003)		(222,814)	2	(2,082,817)
25	Non-Residential DSM Avoided Cost Component adjusted for Cap	Line 23 + Line 24	10,817,002		1,777,361	(1,860,003)	1,908,883	(231,839)		12,406,404
26	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 034554	1 017953	1 001352	1 001352	1 001352		various
27	Total Non Residential DSM Revenue Requirement	Line 25 * Line 26	11,190,773	-	1,804,180	(1,862 518)	1,911,464	(232 152)		12,811,747
28	Total Collected for Vintage 3 (Riders 3 5 Actuals, Rider 6 estimate)	Miller Exhibit 3 pg 1								13,146,993
29	Non-Residential DSM Revenue Requirement True up Amount	Line 27-Line 28								(335,247)
30	Interest due to Vintage 3 DSM Non-Residential Customers	Miller Exhibit 8 Line 18								(67,049)
31	Total Non-Residential Vintage 3 Revenue Requirement	Line 29+ Line 30								(402,296)
32	Projected NC Non Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1								23,100,220,941
33	**Non-Residential Rider EE (cents per kWh)**	Line 31/Line 32*100								**(0.0017)**

1 Adjustments to DSM participation were identified and trued up in 2014 The Company has also received final EM&V and participation for EE programs

2 The cap adjustment factor was updated in Miller Exhibit 4 for actual 2014 collections and estimated 2015 collections

3 Updated lost revenues by year can be found in Barnes Exhibit 2, page 1 Year 2015 has been updated with most recent participation and lost revenue rates as this is the final SAW true up

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May 15 2015

Duke Energy Carolinas, LLC
EE Vintage 4 (January 1, 2013 - December 31, 2013)
Docket Number E-7, Sub 1073
True-Up of Avoided Cost Revenue Requirements & Net Lost Revenues For Vintage 4 Year 1,2 and 3
and Estimate of Year 4 Net Lost Revenues for Vintage 4

RESIDENTIAL

Line			Rider 4 2013 Original Filing	Rider 5 2014 Y2 Lost Revenue	Rider 6 2015 True up of Costs & Year 3 Lost Revenues	Rider 6 2015 True up of 85% to 100%	Rider 7 2016 True up		Vintage 4 - Residential
1	LE Avoided Cost Component	Barnes Exhibit 1 pg 5, Line 8	5,965,462		11,558,766	1,052,729	(1,109,310)	1	17,467,647
2	DSM Avoided Cost Component	Barnes Exhibit 1 pg 5, Line 9	11,275,591		(133,778)	1,989,810	748,905	1	13,880,528
3	Total EE and DSM Avoided Cost	Line 1 + Line 2	17,241,053		11,424,988	3,042,539	(360,405)		31,348,175
4	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 35			(2,928,359)		(1,662,984)	2	(4,591,343)
5	DSM/EE Avoided Cost Component adjusted for Cap	Line 3 + Line 4	17,241,053		8,496,629	3,042,539	(2,023,389)		26,756,832
6	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 017953	1 001352	1 001352	1 001352		various
7	Adjusted Avoided Cost Revenue Requirement	Line 5 * Line 6	17,836,801		8,508,116	3,046,652	(2,026,125)		27,365,444
8	Residential Lost Revenues	Barnes Exhibit 2 pg 1	1,222,507	3,086,106	16,473,937	215,736	6,034,933	3	27,033,219
9	Total Residential Revenue Requirement	Line 7 + Line 8	19,059,307	3,086,106	24,982,053	3,262,389	4,008,808		54,398,663
10	Total Collected for Vintage 4 (Rider 4 5 Actuals, Rider 6 Estimate)	Miller Exhibit 3 pg 1, Line 4 + Line 10							50,268,825
11	**Residential EE/DSM Revenue Requirement True-up Amount**	Line 9 - Line 10							4,129,838

See Miller Exhibit A for rate

NON-RESIDENTIAL

Energy Efficiency

			Rider 4 2013 Original Filing	Rider 5 2014 True up	Rider 6 2015 True up of Costs & Year 3 Lost Revenues	Rider 6 2015 True up of 85% to 100%	Rider 7 2016 True up		Vintage 4 - EE
12	Non Residential EE Avoided Cost Component	Barnes Exhibit 1 pg 5, Line 16	18,760,423		9,250,045	3,310,663	218,976	1	31,540,107
13	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 36			(3,215,288)		(1,042,493)	2	(4,257,781)
14	EE Avoided Cost Component Adjusted for Cap	Line 12 + Line 13	18,760,423		6,034,757	3,310,663	(823,517)		27,282 326
15	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554	1 017953	1 001352	1 001352	1 001352		various
16	Total Non-Residential Avoided Cost Revenue Requirement	Line 14 * Line 15	19,408,671		6,042,916	3,315,139	(824,630)		27,942,095
17	Non-Residential Lost Revenues	Barnes Exhibit 2 pg 1	632,182	2,817,719	7,776,143	111,561	5,928,479	3	17,266,084
18	Total Non-Residential EE Revenue Requirement	Line 16 + Line 17	20,040,852	2,817,719	13,819,059	3,426,700	5,103,849		45,208,179
19	Total Collected for Vintage 4 (Rider 4 5 Actuals, Rider 6 Estimate)	Miller Exhibit 3 pg 1, Line 17							37,388,248
20	Non-Residential EE Revenue Requirement True-up Amount	Line 18 Line 19							7,819,931
21	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1, Line 21							23,966,011,232
22	**Non-Residential Rider EE (cents per kWh)**	Line 20/Line 21*100							**0 0326**

DSM

			Rider 4 2013 Original Filing	Rider 5 2014 True up	Rider 6 2015 True up of Costs	Rider 6 2015 True up of 85% to 100%	Rider 7 True up		Vintage 4 - DSM
23	Non-Residential DSM Avoided Cost Component	Barnes Exhibit 1 pg 5, Line 17	$ 14,776,131		(101,621)	2,607,553	$ (468,103)	1	$ 16,813,960
24	Cap Adjustment factor	Miller Exhibit 4 pg 1, Line 37			(2,357,201)		2,345	2	(2,354,856)
25	Non-Residential DSM Avoided Cost Component adjusted for Cap	Line 23 + Line 24	14,776,131		(2,458,822)	2,607,553	(465,758)		14,459,104
26	Gross Receipts Tax and Regulatory Fee	Miller Exhibit 2, pg 13	1 034554		1 001352	1 001352	1 001352		various
27	Total Non Residential DSM Revenue Requirement	Line 25 * Line 26	15,286,706		(2,462,146)	2,611,078	(466,387)		14,969,250
28	Total Collected for Vintage 4 (Rider 4 5 Actuals, Rider 6 Estimates)	Miller Exhibit 3 pg 1, Line 23							14,864,137
29	Non-Residential DSM Revenue Requirement True-up Amount	Line 27 - Line 28							$ 105,113
30	Projected NC Non-Residential Sales (kWh) for billing period	Miller Exhibit 6 pg 1, Line 21							23,215,694,176
31	**Non-Residential Rider EE (cents per kWh)**	Line 29/Line 30*100							**0.0005**

1 Adjustments to DSM participation were identified and trued up in 2014 The Company has also received final EM&V and participation for EE programs

2 The cap adjustment factor was updated in Miller Exhibit 4 for actual 2014 collections and estimated 2015 collections

3 Note Updated lost revenues by year can be found in Barnes Exhibit 2, page 1 Year 2015 has been updated with most recent participation and lost revenue rates as this is the final SAW true up In addition, 2016 year 4 has been included as a final estimate

Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Year 3 Lost Revenues and True up Year 1 for Vintage Year 2014

RESIDENTIAL
Energy Efficiency Programs

Line		Reference	Year 2014 Yr 3 LR Estimate	Rider 5 Original Estimate	True up	Year 2014 Year 1
1	Residential EE Program Cost	Barnes Exhibit 1 pg 6, Line 8 * NC Alloc Factor		$ 29,754,660	$ (1,844,170)	$ 27,910,490
2	Residential EE Earned Utility Incentive	Barnes Exhibit 1 pg 6, Line 8 * NC Alloc Factor		2,242,156	2,715,537	4,957,693
3	Return on undercollection of Residential EE Program Costs	Miller Exhibit 2 pg 9			53,935	53,935
4	Total EE Program Cost and Incentive Components	Line 1 + Line 2 + line 3		31,996,816	925,302	32,922,118
5	Residential DSM Program Cost	Barnes Exhibit 1 pg 6, Line 9 * NC Alloc Factor		13,143,935	(2,535,104)	10,608,831
6	Residential DSM Earned Utility Incentive	Barnes Exhibit 1 pg 6, Line 9 * NC Alloc Factor		3,240,520	(12,767)	3,227,753
7	Return on overcollection of Residential DSM Program Costs	Miller Exhibit 2 pg 10			(69,597)	(69,597)
8	Total DSM Program Cost and Incentive Components	Line 5 + Line 6 + Line 7		16,384,455	(2,617,468)	13,766,987
9	Total EE/DSM Program Cost and Incentive Components	Line 4 + Line 8		48,381,271	(1,692,167)	46,689,104
10	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg 13		1 017953	1 001352	
11	Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 9 * Line 10		49,249,860	(1,694,455)	47,555,405
12	Residential Net Lost Revenues	Barnes Exhibit 2 pg 2	$ 9,895,892	8,435,982	3,065,327	11,501,309
13	Total Residential EE/DSM Revenue Requirement	Line 11 + Line 12	9,895,892	57,685,842	1,370,872	59,056,714
14	Total Collected for Year 2014 (Rider 5)	Miller Exhibit 3 pg 1, Line 5 + Line 11				58,390,274 [1]
15	**Total Residential EE/DSM Revenue Requirement**	Line 11 + Line 12	$ 9,895,892			$ 666,440

See Miller Exhibit A for rate

NON-RESIDENTIAL
Energy Efficiency Programs

	Residential EE/DSM Revenue Requirement True up Amount	Reference	Year 2014 Yr 3 LR Estimate	Rider 5 Original Estimate	True up	Year 2014 Year 1
16	Non- Residential EE Program Cost	Barnes Exhibit 1 pg 6, Line 24 * NC Alloc Factor		16,206,358	(1,398,648)	14,807,710
17	Non-Residential EE Earned Utility Incentive	Barnes Exhibit 1 pg 6, Line 24 * NC Alloc Factor		5,782,942	2,021,277	7,804,219
18	Return on undercollection of Non-residential EE Program Costs	Miller Exhibit 2 page 11			94,850	94,850
19	Total EE Program Cost and Incentive Components	Line 16 + Line 17 + Line 18		21,989,300	717,479	22,706,779
20	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg 13		1 017953	1 001352	
21	Total Non Residential EE Program Cost and Incentive Revenue Requireme	Line 19 * Line 20		22,384,074	718,449	23,102,523
22	Non-Residential Net Lost Revenues	Barnes Exhibit 2 pg 2	6,094,150	1,831,641	1,222,389	3,054,030
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	6,094,150	24,215,715	1,940,838	26,156,553
24	Total Collected for Year 2014 (Rider 5)	Miller Exhibit 3, pg 1, Line 18				22,574,937 [1]
25	Non-Residential EE Revenue Requirement True up Amount	Line 23 - Line 24	6,094,150			3,581,616
26	Projected NC Residential Sales (kWh)	Miller Exhibit 6, pg 2, Line 17	23,824,291,077			23,824,291,077
27	**NC Non-Residential EE billing factor (Cents/kWh)**	Line 25/Line 26*100	**0.0256**			**0.0150**

DSM Programs

		Reference	Rider 5 Original Estimate	True up	Year 2014 Year 1
28	Non Residential DSM Program Cost	Barnes Exhibit 1, pg 6 Line 25 * NC Alloc Factor	15,046,160	(2,195,319)	12 850,841
29	Non-Residential DSM Earned Utility Incentive	Barnes Exhibit 1, pg 6 Line 25 * NC Alloc Factor	3,709,497	200,391	3,909,888
30	Return on overcollection of Non-residential DSM Program Costs	Miller Exhibit 2 page 12		(19,939)	(19,939)
31	Total Non-Residential DSM Program Cost and Incentive Components	Line 28 + Line 29 + Line 30	18,755,657	(2,014,868)	16,740,789
32	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg 13	1 017953	1 001352	
33	Total Non-Residential DSM Revenue Requirement	Line 31 * Line 32	19,092,377	(2,017,592)	17,074,786
34	Total Revenue Collected for DSM Programs Year 2014	Miller Exhibit 3, pg 1, Line 24			18,087,702
35	Non-Residential DSM Revenue Requirement True-up Amount	Line 33- Line 34			(1,012,916)
36	Projected NC Non-Residential Sales (kWh)	Miller Exhibit 6 pg 2, Line 17			23,138,123,262
37	**NC Non-Residential DSM billing factor**	Line 35/Line 36*100			**(0.0044)**

[1] Revenue estimated to be collected in 2015 pertain to year 2 lost revenues Year 2 lost revenues are not included in the lost revenue true-up for 2014 Therefore, the 2015 revenue is not included in this true-up It will be trued up in Rider 8

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Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Year 2 Lost Revenues for Vintage Year 2015

RESIDENTIAL

Line		Reference	2015
1	Residential Lost Revenues - Year 2	Barnes Exhibit 2 pg. 2 Line 36	$ 4,071,955
2	Projected NC Residential Sales (kWh)	Miller Exhibit 6 pg. 2, Line 1	21,674,738,000
3	**NC Residential EE Billing factor (Cents/kWh)**	Line 1/Line 2*100	**0.0188**

NON-RESIDENTIAL
Energy Efficiency Programs

		Reference	2015
4	Non-Residential Net Lost Revenues - Year 2	Barnes Exhibit 2 pg. 2 Line 50	$ 8,194,003
5	Projected NC Residential Sales (kWh)	Miller Exhibit 2 pg. 7, Line 19	23,753,678,227
6	**NC Non-Residential EE Billing Factor (Cents/kwh)**	Line 4/Line 5*100	**0.0345**

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Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Program Costs, Earned Incentive and Lost Revenues for Vintage Year 2016

RESIDENTIAL

Line		Reference	2016
1	Residential EE Program Cost	Barnes Exhibit 1, pg 7 * NC Alloc Factor	$ 31,056,079
2	Residential EE Earned Utility Incentive	Barnes Exhibit 1, pg 7 * NC Alloc Factor	2,392,652
3	Total EE Program Cost and Incentive Components	Line 1 + Line 2	33,448,730
4	Residential DSM Program Cost	Barnes Exhibit 1, pg 7 * NC Alloc Factor	10,613,016
5	Residential DSM Earned Utility Incentive	Barnes Exhibit 1, pg 7 * NC Alloc Factor	2,887,418
6	Total DSM Program Cost and Incentive Components	Line 4 + Line 5	13,500,433
7	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6	46,949,164
8	*Revenue-related taxes and regulatory fees factor*	Miller Exhibit 2, pg 13	1 001352
9	Total EE/DSM Program Cost and Incentive Revenue Requirement	Line 7 * Line 8	47,012,639
10	Residential Net Lost Revenues	Barnes Exhibit 2 pg 2 Line 61	11,873,767
11	**Total Residential EE Revenue Requirement**	**Line 9 + Line 10**	**$ 58,886,406**
			See Miller Exhibit 1 for rate

NON-RESIDENTIAL
Energy Efficiency Programs

		Reference	2016
12	Non- Residential EE Program Cost	Barnes Exhibit 1, pg 7 * NC Alloc Factor	$ 36,494,611
13	Non-Residential EE Earned Utility Incentive	Barnes Exhibit 1, pg 7 * NC Alloc Factor	10,105,721
14	Total EE Program Cost and Incentive Components	Line 12 + Line 13	46,600,331
15	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg 13	1 001352
16	Total Non Residential EE Program Cost and Incentive Revenue Requirements	Line 14 * Line 15	46,663,335
17	Non-Residential Net Lost Revenues	Barnes Exhibit 2 pg 2 Line 75	4,745,315
18	Total Non-Residential EE Revenue Requirement	Line 16 + Line 17	$ 51,408,650
19	Projected NC Residential Sales (kWh)	Miller Exhibit 6, pg 2	23,753,678,227
20	**NC Non-Residential EE billing factor (Cents/kWh)**	Line 18/Line 19*100	**0.2164**

DSM Programs

			2016
21	Non-Residential DSM Program Cost	Barnes Exhibit 1, pg 7 * NC Alloc Factor	$ 12,855,910
22	Non-Residential DSM Earned Utility Incentive	Barnes Exhibit 1, pg 7 * NC Alloc Factor	3,497,628
23	Total Non-Residential DSM Program Cost and Incentive Components	Line 21 + Line 22	16,353,538
24	Revenue-related taxes and regulatory fees factor	Miller Exhibit 2, pg 13	1 001352
25	Total Non Residential DSM Revenue Requirement	Line 23 * Line 24	16,375,648
26	Projected NC Non-Residential Sales (kWh)	Miller Exhibit 6, pg 2	23,082,735,561
27	**NC Non-Residential DSM billing factor**	Line 25/Line 26*100	**0.0709**

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Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Interest Calculation - SAW Program

NON-RESIDENTIAL DSM Programs

VINTAGE 3

1	**Vintage 3**	Miller Exh 2 pg. 3 Line 29	(335,247)
			(335,247)
2	Annual interest rate	Same as used for fuel	10.00%
3	Monthly interest rate	Line 2/12	0.83%
4	Beginning interest incurred date	Mid-point of test period	7/1/2014
5	Ending date	Mid-point of rate period	6/30/2016
6	Total months to calculate interest		24
7	Total interest due	Line 1 * Line 3 * Line 6	(67,049)

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Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Return Calculation - Residential EE Programs Vintage 2014

NC Residential EE		Residential EE Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	NC Residential Revenue Collected(EEC2)	NC Residential EE Program Collection %	EE Program Costs Revenue Collected	(Over)/Under Collection
			Miller Exhibit 5 pg 6, Line 4			see calc at right		
2014	January	2,345,126	72 9600473%	1,711,005	1,965,528	62 0990604%	(1,220,574)	490,431
2014	February	1,939,655	72 9600473%	1,415,174	4,790,497	62 0990604%	(2,974,854)	(1,559,680)
2014	March	2,388,597	72 9600473%	1,742,722	3,571,294	62 0990604%	(2,217,740)	(475,018)
2014	April	2,800,794	72 9600473%	2,043,460	2,996,350	62 0990604%	(1,860,705)	182,755
2014	May	3,504,706	72 9600473%	2,557,035	2,605,626	62 0990604%	(1,618,069)	938,966
2014	June	3,049,089	72 9600473%	2,224,617	3,281,724	62 0990604%	(2,037,920)	186,697
2014	July	4,165,240	72 9600473%	3,038,961	3,939,031	62 0990604%	(2,446,101)	592,859
2014	August	4,277,377	72 9600473%	3,120,776	3,417,322	62 0990604%	(2,122,125)	998,652
2014	September	2,815,581	72 9600473%	2,054,249	3,539,784	62 0990604%	(2,198,173)	(143,924)
2014	October	3,790,918	72 9600473%	2,765,856	2,460,025	62 0990604%	(1,527,652)	1,238,204
2014	November	3,405,295	72 9600473%	2,484,505	2,448,958	62 0990604%	(1,520,780)	963,725
2014	December	3,772,108	72 9600473%	2,752,132	3,980,410	62 0990604%	(2,471,797)	280,335
2015	January	0	72 9600473%	-	2,517,177	62 0990604%	(1,563,143)	(1,563,143)
		38,254,486		27,910,491	41,513,726			

EE Program Costs	27,910,490
EE Revenue Requirement	44,945,109
% Revenue related to Program Costs	62%

NC Residential EE		Cumulative (Over)/Under Recovery	Deferred Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
			2014 tax rate				6 93%			1- 379155	
2014	January	490,431	0 383471	188,066	188,066	302,365	0 005775	873	873	0 620845	1,406
2014	February	(1,069,250)	0 383471	(598,092)	(410,026)	(659,224)	0 005775	(1,030)	(157)	0 620845	(253)
2014	March	(1,544,268)	0 383471	(182,156)	(592,182)	(952,086)	0 005775	(4,653)	(4,810)	0 620845	(7,748)
2014	April	(1,361 513)	0 383471	70,081	(522,101)	(839,412)	0 005775	(5,173)	(9,983)	0 620845	(16,080)
2014	May	(422,547)	0 383471	360,066	(162,034)	(260,512)	0 005775	(3,176)	(13,159)	0 620845	(21,196)
2014	June	(235,850)	0 383471	71,593	(90,442)	(145,408)	0 005775	(1,172)	(14,331)	0 620845	(23,084)
2014	July	357,010	0 383471	227,344	136,903	220,107	0 005775	216	(14,116)	0 620845	(22,736)
2014	August	1,355,661	0 383471	382,954	519,857	835,804	0 005775	3,049	(11,067)	0 620845	(17,825)
2014	September	1,211,738	0 383471	(55,191)	464,666	747,071	0 005775	4,571	(6,496)	0 620845	(10,463)
2014	October	2,449,941	0 383471	474,815	939,481	1,510,460	0 005775	6,519	23	0 620845	37
2014	November	3,413,666	0 383471	369,560	1,309,042	2,104,624	0 005775	10,439	10,462	0 620845	16,851
2014	December	3,694,001	0 383471	107,500	1,416,542	2,277,459	0 005775	12,654	23,115	0 620845	37,232
2015	January	2,130,857	0 383471	(599,420)	817,122	1,313,735	0 005775	10,370	33,485	0 620845	53,935
								33,485			53,935

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Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Return Calculation - Residential DSM Programs Vintage 2014

NC Residential DSM		Total System NC DSM Program Costs Incurred	NC Residential DSM Allocation %	NC Allocated DSM Residential Program Costs	NC Residential Revenue Collected(EEC2)	NC Residential DSM Program Collection %	DSM Program Costs Revenue Collected	(Over)/Under Collection
			Miller Exhibit 5, pg 6 Line 9			See calc at right		
2014	January	1,853,709	34 0209980%	630,650	801,545	75 0945957%	(601,917)	28,733
2014	February	1,977,838	34 0209980%	672,880	1,953,572	75 0945957%	(1,467,027)	(794,147)
2014	March	2,263,839	34 0209980%	770,180	1,456,379	75 0945957%	(1,093,662)	(323,481)
2014	April	2,327,907	34 0209980%	791,977	1,221,916	75 0945957%	(917,593)	(125,616)
2014	May	2,953,411	34 0209980%	1,004,780	1,062,578	75 0945957%	(797,939)	206,841
2014	June	2,326,109	34 0209980%	791,366	1,338,292	75 0945957%	(1,004,985)	(213,619)
2014	July	3,521,875	34 0209980%	1,198,177	1,597,016	75 0945957%	(1,199,273)	(1,096)
2014	August	3,245,158	34 0209980%	1,104,035	1,385,497	75 0945957%	(1,040,433)	63,602
2014	September	3,836,775	34 0209980%	1,305,309	1,435,148	75 0945957%	(1,077,718)	227,591
2014	October	3,227,894	34 0209980%	1,098,162	997,377	75 0945957%	(748,976)	349,186
2014	November	2,015,259	34 0209980%	685,611	992,890	75 0945957%	(745,607)	(59,996)
2014	December	1,633,412	34 0209980%	555,703	1,613,792	75 0945957%	(1,211,871)	(656,167)
2015	January		34 0209980%	-	1,020,548	75 0945957%	(766,377)	(766,377)
		31,183,185		10,608,831	16,876,548			

DSM Program Costs	10,608,831
DSM Revenue Requirement	14,127,289
% Revenue related to Program Costs	75%

NC Residential DSM		Cumulative (Over)/Under Recovery	Deferred Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
			2014 tax rate				6 93%			1- 379155	
2014	January	28,733	0 383471	11,018	11,018	17,715	0 005775	51	51	0 620845	82
2014	February	(765,414)	0 383471	(304,532)	(293,514)	(471,900)	0 005775	(1,311)	(1,260)	0 620845	(2,030)
2014	March	(1,088,895)	0 383471	(124,046)	(417,560)	(671,335)	0 005775	(3,301)	(4,561)	0 620845	(7,347)
2014	April	(1,214,510)	0 383471	(48,170)	(465,729)	(748,781)	0 005775	(4,101)	(8,662)	0 620845	(13,952)
2014	May	(1,007,669)	0 383471	79,318	(386,412)	(621,257)	0 005775	(3,956)	(12,618)	0 620845	(20,324)
2014	June	(1,221,288)	0 383471	(81,917)	(468,329)	(752,959)	0 005775	(3,968)	(16,586)	0 620845	(26,715)
2014	July	(1,222,384)	0 383471	(420)	(468,749)	(753,635)	0 005775	(4,350)	(20,936)	0 620845	(33,722)
2014	August	(1,158,782)	0 383471	24,389	(444,359)	(714,423)	0 005775	(4,239)	(25,175)	0 620845	(40,550)
2014	September	(931,191)	0 383471	87,274	(357,085)	(574,106)	0 005775	(3,721)	(28,896)	0 620845	(46,543)
2014	October	(582,005)	0 383471	133,903	(223,182)	(358,823)	0 005775	(2,694)	(31,590)	0 620845	(50,882)
2014	November	(642,001)	0 383471	(23,007)	(246,189)	(395,812)	0 005775	(2,179)	(33,769)	0 620845	(54 392)
2014	December	(1,298,168)	0 383471	(251,621)	(497,810)	(800,358)	0 005775	(3,454)	(37,223)	0 620845	(59,955)
2015	January	(2,064,545)	0 383471	(293,883)	(791,693)	(1,272,852)	0 005775	(5,986)	(43,209)	0 620845	(69,597)
								(43,209)			(69,597)

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Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Estimated Return Calculation - Non- Residential EE Programs Vintage 2014

NC Non- Residential EE		Non Residential EE Program Costs Incurred	NC Allocation %	NC Allocated EE Program Costs	NC Residential Revenue Collected(EEC14)	NC Non Residential EE Program Collection %	Non-Residential EE Program Costs Revenue Collected	(Over)/Under Collection
			Miller Exhibit 5 pg 6, Line 4			See calc at right		
2014	January	1,402,202	72 9600473%	1,023,047	873,873	56 8181711%	(496,519)	526,529
2014	February	787,200	72 9600473%	574,342	1,906,629	56 8181711%	(1,083,312)	(508,970)
2014	March	2,047,090	72 9600473%	1,493,558	1,730,198	56 8181711%	(983,067)	510,491
2014	April	1,881,253	72 9600473%	1,372,563	1,818,402	56 8181711%	(1,033,183)	339,380
2014	May	1,352,150	72 9600473%	986,529	1,841,327	56 8181711%	(1,046,209)	(59,679)
2014	June	3,031,236	72 9600473%	2,211,591	2,078,943	56 8181711%	(1,181,217)	1,030,374
2014	July	1,652,175	72 9600473%	1,205,428	2,112,332	56 8181711%	(1,200,188)	5,239
2014	August	666,430	72 9600473%	486,228	2,059,199	56 8181711%	(1,169,999)	(683,771)
2014	September	2,603,310	72 9600473%	1,899,376	2,121,927	56 8181711%	(1,205,640)	693,736
2014	October	1,387,748	72 9600473%	1,012,502	1,841,200	56 8181711%	(1,046,136)	(33,634)
2014	November	1,478,658	72 9600473%	1,078,830	1,706,943	56 8181711%	(969,854)	108,975
2014	December	2,006,192	72 9600473%	1,463,718	1,819,475	56 8181711%	(1,033,793)	429,926
2015	January		72 9600473%	-	664,487	56 8181711%	(377,550)	(377,550)
		20,295,644		14,807,712	22,574,937			

Non-Res EE Program Costs	14,807,710
Non Res EE Revenue Requirement	26,061,575
% Revenue related to Program Costs	57%

NC Non-Residential EE		Cumulative (Over)/Under Recovery	Deferred Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
			2014 tax rate				6 93%			1 - 379155	
2014	January	526,529	0 383471	201,908 46	201,908	324,620	0 005775	937	937	0 620845	1,510
2014	February	17,558	0 383471	(195,175 35)	6,733	10,825	0 005775	969	1,906	0 620845	3,070
2014	March	528,049	0 383471	195,758 43	202,492	325,558	0 005775	971	2,877	0 620845	4,634
2014	April	867,429	0 383471	130,142 30	332,634	534,795	0 005775	2,484	5,362	0 620845	8,636
2014	May	807,750	0 383471	(22,885 31)	309,749	498,001	0 005775	2,982	8,344	0 620845	13,439
2014	June	1,838,124	0 383471	395,118 54	704,867	1,133,256	0 005775	4,710	13,054	0 620845	21,026
2014	July	1,843,363	0 383471	2,009 17	706,876	1,136,487	0 005775	6,554	19,608	0 620845	31,583
2014	August	1,159,592	0 383471	(262,206 49)	444,670	714,922	0 005775	5,346	24,954	0 620845	40,193
2014	September	1,853,328	0 383471	266,027 70	710,697	1,142,630	0 005775	5,364	30,317	0 620845	48,833
2014	October	1,819,694	0 383471	(12,897 69)	697,800	1,121,894	0 005775	6,539	36,856	0 620845	59,365
2014	November	1,928,669	0 383471	41,788 93	739,589	1,189,080	0 005775	6,673	43,529	0 620845	70,113
2014	December	2,358,595	0 383471	164,864 02	904,453	1,454,142	0 005775	7,632	51,162	0 620845	82,406
2015	January	1,981,045	0 383471	(144,779 31)	759,673	1,221,372	0 005775	7,726	58,887	0 620845	94,850
								58,887			94,850

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Duke Energy Carolinas, LLC
Docket No E 7, Sub 1073
Estimated Return Calculation Non Residential DSM Programs Vintage 2014

NC Non Residential DSM		Total System NC DSM Program Costs Incurred	NC Non Residential DSM Allocation %	NC Allocated DSM Non Residential Program Costs	Incentives Earned & GRT remitted (Allocated based on WA of Program Costs Incurred)	Total DSM Revenue Requirement	NC Non Residential DSM Revenue Collected(DS14)	NC Non Residential DSM Program Collection %	Non Residential DSM Program Costs Revenue Collected	(Over)/Under Collection
			See Miller Exhibit 5 pg 6 Line 10		calculated interest on entire balance due to over collection in total			100% used due to over collection of entire vintage		
2014	January	1 853 709	41 2108021%	763 928	252 283	1 016 211	715 425	100 0000000%	(715 425)	300 786
2014	February	1 977 838	41 2108021%	815 083	269 176	1 084 259	1 545 880	100 0000000%	(1 545 880)	(461 622)
2014	March	2 263 839	41 2108021%	932 946	308 100	1 241 046	1 379 174	100 0000000%	(1 379 174)	(138 128)
2014	April	2 327 907	41 2108021%	959 349	316 819	1 276 168	1 475 418	100 0000000%	(1 475 418)	(199 250)
2014	May	2 953 411	41 2108021%	1 217 124	401 948	1 619 077	1 483 279	100 0000000%	(1 483 279)	135 793
2014	June	2 326 109	41 2108021%	958 608	316 575	1 275 183	1 664 945	100 0000000%	(1 664 945)	(389 762)
2014	July	3 521 875	41 2108021%	1 451 393	479 314	1 930 707	1 716 762	100 0000000%	(1 716 762)	213 944
2014	August	3 245 158	41 2108021%	1 337 356	441 654	1 779 009	1 659 220	100 0000000%	(1 659 220)	119 789
2014	September	3 836 775	41 2108021%	1 581 166	522 170	2 103 336	1 699 354	100 0000000%	(1 699 354)	403 982
2014	October	3 227 894	41 2108021%	1 330 241	439 304	1 769 545	1 492 291	100 0000000%	(1 492 291)	277 254
2014	November	2 015 259	41 2108021%	830 504	274 269	1 104 773	1 335 834	100 0000000%	(1 335 834)	(231 061)
2014	December	1 633 412	41 2108021%	673 142	222 301	895 443	1 459 103	100 0000000%	(1 459 103)	(563 659)
2015	January		41 2108021%				461 016	100 0000000%	(461 016)	(461 016)
		31 183 185		12 850 841	4 243 911	17 094 757	18 087 702			

NC Residential EE		Cumulative (Over)/Under Recovery	Deferred Income Tax Rate	Monthly Deferred Income Tax	Cumulative Deferred Income Tax	Net Deferred After Tax Balance	Monthly Return	Monthly A/T Return on Deferral	YTD After Tax Interest	Gross up of Return to Pretax Rate	Gross up of Return to Pretax
			2014 tax rate				6 93%			1 379155	
2014	January	300 786	0 383471	115 343	115 343	185 443	0 005775	535	535	0 620845	862
2014	February	(160 835)	0 383471	(177 018)	(61 676)	(99 160)	0 005775	249	785	0 620845	1 264
2014	March	(298 963)	0 383471	(52 968)	(114 644)	(184 320)	0 005775	(819)	(34)	0 620845	(55)
2014	April	(498 214)	0 383471	(76 407)	(191 050)	(307 163)	0 005775	(1 419)	(1 453)	0 620845	(2 341)
2014	May	(362 421)	0 383471	52 073	(138 978)	(223 443)	0 005775	(1 532)	(2 985)	0 620845	(4 808)
2014	June	(752 183)	0 383471	(149 462)	(288 440)	(463 743)	0 005775	(1 984)	(4 969)	0 620845	(8 004)
2014	July	(538 238)	0 383471	82 041	(206 399)	(331 840)	0 005775	(2 297)	(7 267)	0 620845	(11 705)
2014	August	(418 449)	0 383471	45 936	(160 463)	(257 986)	0 005775	(1 703)	(8 970)	0 620845	(14 448)
2014	September	(14 467)	0 383471	154 915	(5 548)	(8 920)	0 005775	(771)	(9 741)	0 620845	(15 689)
2014	October	262 787	0 383471	106 319	100 771	162 016	0 005775	442	(9 298)	0 620845	(14 977)
2014	November	31 726	0 383471	(88 605)	12 166	19 560	0 005775	524	(8 774)	0 620845	(14 133)
2014	December	(531 933)	0 383471	(216 147)	(203 981)	(327 952)	0 005775	(890)	(9 665)	0 620845	(15 567)
2015	January	(992 950)	0 383471	(176 786)	(380 767)	(612 182)	0 005775	(2 715)	(12 379)	0 620845	(19 939)
								(12 379)			(19 939)

Duke Energy Carolinas, LLC
Docket No. E-7, Sub 1073
Gross Receipts Tax Years 2009-2016

	Year		GRT Rate In Effect
Rider 1	2009		1.034554
Rider 1	2010		1.034554
Rider 2	2011		1.034554
Rider 3	2012		1.034554
Rider 4	2013		1.034554
	2014	Jan - June	1.034554
		July - Dec	1.001352
Rider 5	2014	Weighted Average	1.017953
Rider 6	2015		1.001352
Rider 7	2016		1.001352

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Duke Energy Carolinas, LLC
DSM/EE Revenues Collected from Riders 1-6 (By Vintage)
Docket Number E-7, Sub 1073
For Vintages 1- 4 and Year 2014 True-Up Calculations

Line		Vintage	Actual 2010 Rider 1	Actual 2011 Rider 2	Actual 2012 Rider 3	Actual 2013 Rider 4	Actual 2014 Rider 5	Estimate 2015 Rider 6 [1]	Total
	Residential								
1	EE	v1	$ 25,916,921	$ 6,366,243	$ 17,575,779	$ 929,553	$ 674,570	$ 2,884,169	$ 54,347,236
2		v2		22,641,166	7,680,225	10,307,713	7,750,897	17,156,210	65,536,210
3		v3			8,610,393	2,933,257	21,501,477	16,970,485	50,015,612
4		v4				7,291,829	3,131,859	27,904,781	38,328,469
5		Year 2014					41,513,726	3,871,360	45,385,085
6		Year 2015						53,202,985	53,202,985
7	DSM	v1	6,461,100		2,357,720	(413,135)		(210,578)	8,195,107
8		v2		7,259,507		1,260,061		(1,200,218)	7,319,349
9		v3			10,713,375	-	(2,354,078)	1,466,599	9,825,897
10		v4				11,526,460		413,896	11,940,356
11		Year 2014					16,876,548		16,876,548
12		Year 2015						5,658,797	5,658,797
13	**Total Residential**		$ 32,378,022	$ 36,266,916	$ 46,937,492	$ 33,835,738	$ 89,094,999	$ 128,118,487	$ 366,631,653
	Non-Residential								
14	EE	v1	$ 7,688,412	$ 860,011	$ 6,038,079	$ 3,812,310	$ (289,351)	$ -	$ 18,109,461
15		v2		7,165,813	1,039,274	12,137,871	1,415,164	2,349,137	24,107,260
16		v3			11,394,699	1,717,616	17,828,520	5,928,564	36,869,399
17		v4				19,795,122	3,107,562	14,485,563	37,388,248
18		Year 2014					22,574,937	4,760,481	27,335,418
19		Year 2015					-	25,545,057	25,545,057
20	DSM	v1	5,118,264		4,994,566	(311,608)		(65,988)	9,735,234
21		v2		7,594,483		3,378,237	-	(44,923)	10,927,797
22		v3			12,967,453	-	(1,109,322)	1,288,862	13,146,993
23		v4				14,182,324	-	681,813	14,864,137
24		Year 2014					18,087,702		18,087,702
25		Year 2015						19,453,552	19,453,552
26	**Total Non-Residential**		$ 12,806,676	$ 15,620,307	$ 36,434,070	$ 54,711,872	$ 61,615,213	$ 74,382,118	$ 255,570,257
27	**Total Revenue**		**$ 45,184,698**	**$ 51,887,223**	**$ 83,371,563**	**$ 88,547,610**	**$ 150,710,212**	**$ 202,500,605**	**$ 622,201,910**

[1] Rider 6 estimates based on the revised estimated forecast. See Miller Exhibit 3 page 3.

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Duke Energy Carolinas, LLC
DSM/EE Revenues Collected from Riders 1-6 (By Vintage)
Docket Number E-7, Sub 1073
Revenue by Type for Riders 1-5 Actuals and Rider 6 estimates (SAW Program only)

Line		Vintage	Actual 2010 Rider 1	Actual 2011 Rider 2	Actual 2012 Rider 3	Actual 2013 Rider 4	Actual 2014 Rider 5	Estimate 2015 Rider 6 [1]	Total
	Residential								
1	EE/DSM-Avoided Costs	v1	$ 23,845,842	$ -	$ 21,750,975	$ (6,891,415)	$ 837,024	$ (1,034,124)	$ 38,508,303
2		v2	-	22,938,621	-	12,315,553	11,742	(9,643,903)	25,622,013
3		v3	-	-	18,077,050	-	10,257,628	7,109,157	35,443,836
4		v4	-	-	-	17,612,692	-	11,368,427	28,981,119
5	Lost Revenue	v1	8,532,180	6,366,243	(1,817,476)	7,407,834	(162,454)	3,707,715	24,034,040
6		v2	-	6,962,052	7,680,225	(747,779)	7,739,154	25,599,895	47,233,547
7		v3	-	-	1,246,718	2,933,257	8,889,771	11,327,927	24,397,673
8		v4	-	-	-	1,205,598	3,131,859	16,950,250	21,287,706
9	**Total Residential**		$ 32,378,022	$ 36,266,916	$ 46,937,492	$ 33,835,738	$ 30,704,725	$ 65,385,345	$ 245,508,237
	Non-Residential								
10	EE Avoided Costs	v1	$ 6,572,003	$ -	$ 7,233,409	$ 3,066,725	$ (348,179)	$ -	$ 16,523,959
11		v2	-	6,225,978	-	11,932,378	-	(983,590)	17,174,766
12		v3	-	-	11,328,823	-	14,441,251	2,922,651	28,692,725
13		v4	-	-	-	19,170,692	-	7,704,941	26,875,632
14	DSM Avoided Costs	v1	5,118,264	-	4,994,566	(311,608)	-	(65,988)	9,735,234
15		v2	-	7,594,483	-	3,378,237	-	(44,923)	10,927,797
16		v3	-	-	12,967,453	-	(1,109,322)	1,288,862	13,146,993
17		v4	-	-	-	14,182,324	-	681,813	14,864,137
18	Lost Revenue	v1	1,116,409	860,011	(1,195,330)	745,585	58,828	-	1,585,502
19		v2	-	939,835	1,039,274	205,493	1,415,164	3,332,727	6,932,493
20		v3	-	-	65,876	1,717,616	3,387,269	3,005,913	8,176,674
21		v4	-	-	-	624,430	3,107,562	6,780,623	10,512,615
22	**Total Non-Residential**		$ 12,806,676	$ 15,620,307	$ 36,434,070	$ 54,711,872	$ 20,952,574	$ 24,623,028	$ 165,148,528
23	**Total Revenue**		**$ 45,184,698**	**$ 51,887,223**	**$ 83,371,563**	**$ 88,547,610**	**$ 51,657,299**	**$ 90,008,373**	**$ 410,656,765**

[1] Rider 6 estimates based on the revised estimated forecast. See Miller Exhibit 3 page 3.

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Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 7
Docket Number E-7 Sub 1073
Revised Estimated Revenues 2015

Residential Billing Factors for Rider 6 with updated 2015 forecast

Line			
1	Rate for Vintage 1 True-Up	(WA of rate in Rider 6, McGee Exhibit 1)	0 0125
2	Updated 2015 Forecast	Miller Exhibit 6 pg 1, Line 1	21,388,729,000
3	Estimated Revenue Vintage 1 True Up	(Line 1*Line 2)/100	**2,673,591**
4	Rate for Vintage 2 True-Up	(WA of rate in Rider 6, McGee Exhibit 1)	0 0746
5	Updated 2015 Forecast	Miller Exhibit 6 pg 1, Line 1	21,388,729,000
6	Estimated Revenue Vintage 2 True Up	(Line 4*Line 5)/100	**15,955,992**
7	Rate for Vintage 3 True Up	(WA of rate in Rider 6, McGee Exhibit 1)	0 0786
8	Updated 2015 Forecast	Miller Exhibit 6 pg 1, Line 1	21,388,729,000
9	Estimated Revenue Vintage 3 True Up	(Line 7*Line 8)/100	**16,811,541**
10	Rate for Vintage 4 True-Up	(WA of rate in Rider 6, McGee Exhibit 1)	0 0984
11	Updated 2015 Forecast	Miller Exhibit 6 pg 1, Line 1	21,388,729,000
12	Estimated Revenue Vintage 4 True Up	(Line 10*Line 11)/100	**21,046,509**
13	Rate for Vintage 3 Prospective Component	(WA of rate in Rider 6, McGee Exhibit 1)	0 0076
14	Updated 2015 Forecast	Miller Exhibit 6 pg 1, Line 1	21,388,729,000
15	Estimated Revenue Vintage 3 True Up	(Line 13*Line 14)/100	**1,625,543**
16	Rate For Vintage 4 Prospective Component	(WA of rate in Rider 6, McGee Exhibit 1)	0 0340
17	Updated 2015 Forecast	Miller Exhibit 6 pg 1, Line 1	21,388,729,000
18	Estimated Revenue Vintage 4 True Up	(Line 16*Line 17)/100	**7,272,168**
19	Rate for Year 2014 Prospective Component	(WA of rate in Rider 6, McGee Exhibit 1)	0 0181
20	Updated 2015 Forecast	Miller Exhibit 6, pg 2	21,388,729,000
21	Estimated Revenue Vintage Year 2014 True Up	(Line 19*Line 20)/100	**3,871,360**
22	Rate For Year 2015 Prospective Component	(WA of rate in Rider 6, McGee Exhibit 1)	0 2752
23	Updated 2015 Forecast	Miller Exhibit 6, pg 2	21,388,729,000
24	Estimated Revenue Vintage Year 2015 True Up	(Line 22*Line 23)/100	**58,861,782**

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Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 7
Docket Number E-7 Sub 1073
Revised Estimated Revenues 2015

Revised Non-Residential Billing Factors for Rider 6 with updated forecast

Line				
1	Rate for Vintage 1 EE True up (EMF) Participants	Rider 6, McGee Exhibit 1		
2	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		22,483,765,776
3	*SAW EE Estimated Revenue Vintage 1 EMF Non Residential Rider EE*	Line 1*Line 2 / 100		-
4	Rate for Vintage 1 DSM True up (EMF) Participants	Rider 6, McGee Exhibit 1		(0 0003)
5	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		21,995,904,238
6	*SAW DSM Estimated Revenue Vintage 1 EMF Non Residential Rider EE*	Line 4*Line 5 / 100	$	**(65,988)**
7	Rate for Vintage 2 EE True-up (EMF) Participants	Rider 6, McGee Exhibit 1		0 0103
8	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		22,807,156,187
9	*SAW EE Estimated Revenue Vintage 2 EMF Non Residential Rider EE*	Line 7*Line 8 / 100	$	**2,349,137**
10	Rate for Vintage 2 DSM True up (EMF) Participants	Rider 6, McGee Exhibit 1		(0 0002)
11	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		22,461,631,628
12	*SAW DSM Estimated Revenue Vintage 2 EMF Non-Residential Rider EE*	Line 10*Line 11 / 100	$	**(44,923)**
13	Rate for Vintage 3 EE True up (EMF) Participants	Rider 6, McGee Exhibit 1		0 0212
14	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		23,068,340,761
15	*SAW EE Estimated Revenue Vintage 3 EMF Non-Residential Rider EE*	Line 13*Line 14 / 100	$	**4,890,488**
16	Rate for Vintage 3 DSM True-up (EMF) Participants	Rider 6, McGee Exhibit 1		0 0057
17	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		22,611,621,941
18	*SAW DSM Estimated Revenue Vintage 3 EMF Non Residential Rider EE*	Line 16*Line 17 / 100	$	**1,288,862**
19	Rate for Vintage 4 EE True-up (EMF) Participants	Rider 6, McGee Exhibit 1		0 0400
20	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		23,477,412,232
21	*SAW EE Estimated Revenue Vintage 4 EMF Non-Residential Rider EE*	Line 19*Line 20 / 100	$	**9,390,965**
22	Rate for Vintage 4 DSM True-up (EMF) Participants	Rider 6, McGee Exhibit 1		0 0030
23	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		22,727,095,176
24	*SAW DSM Estimated Revenue Vintage 4 EMF Non Residential Rider EE*	Line 22*Line 23 / 100	$	**681,813**
25	Rate for Vintage 3 EE Prospective Participants	Rider 6, McGee Exhibit 1		0 0045
26	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		23,068,340,761
27	*SAW EE Estimated Revenue Vintage 3 EE Prospective Component for Non-Residential Rider EE*	Line 25*Line 26 / 100	$	**1,038,075**
28	Rate for Vintage 4 EE Prospective Participants	Rider 6, McGee Exhibit 1		0 0217
29	Updated 2015 Forecast	Miller Exhibit 6, pg 1, Line 31		23,477,412,232
30	*SAW EE Estimated Revenue Vintage 4 EE Prospective Component for Non-Residential Rider EE*	Line 28*Line 29 / 100	$	**5,094,598**
31	Rate for Year 2014 EE Prospective Participants	Rider 6, McGee Exhibit 1		0 0204
32	Updated 2015 Forecast	Miller Exhibit 6, pg 2, Line 25		23,335,692,077
33	*EE Estimated Revenue Vintage Year 2014 EE Prospective Component for Non-Residential Rider EE*	Line 31*Line 32 / 100	$	**4,760,481**
34	Rate for Vintage 2015 EE Prospective Participants	Rider 6, McGee Exhibit 1		0 1098
35	Updated 2015 Forecast	Miller Exhibit 6, pg 2, Line 25		23,265,079,227
36	*EE Estimated Revenue Vintage Year 2014 EE Prospective Component for Non-Residential Rider EE*	Line 37*Line 35 / 100	$	**25,545,057**
37	Rate for Vintage 2015 DSM Prospective Participants	Rider 6, McGee Exhibit 1		0 0861
38	Updated 2015 Forecast	Miller Exhibit 6, pg 2, Line 25		22,594,136,561
39	*DSM Estimated Revenue Vintage Year 2015 Prospective Component for Non-Residential Rider EE*	Line 37*Line 38 / 100	$	**19,453,552**
				74,382,118

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Duke Energy Carolinas, LLC

Docket Number E-7, Sub 1073

DSM/EE Earnings Cap Calculation for the Period June 1, 2009 to December 31, 2013

Line				2009-2010	2011	2012	2013	
				Vintage 1	Vintage 2	Vintage 3	Vintage 4	Total
				a	b	c	d	e = sum(a-d)
	Total for EE		50%					
1	AC Revenues-50%	Barnes Exhibit 1		$ 54,046,415	$ 53,060,687	$ 55,694,675	$ 49,007,754	$ 211,809,532
2	Program Costs	Barnes Exhibit 3		35,112,011	32,010,151	36,593,077	35,593,812	139,309,051
3	Income Before Taxes	Line 1 - Line 2		18,934,404	21,050,536	19,101,598	13,413,942	72,500,481
4	Income Tax Rate			0 391760	0 391713	0 391373	0 391373	
5	Income Taxes	Line 3 * Line 4		7,417,742	8,245,769	7,475,850	5,249,855	28,389,215
6	Net Income	Line 3 Line 5		$ 11,516,662	$ 12,804,768	$ 11,625,749	$ 8,164,087	$ 44,111,265
	Total for DSM Programs		75%					
7	AC Revenues 75%	Barnes Exhibit 1		$ 20,997,871	$ 22,415,245	$ 27,146,629	$ 30,694,489	$ 101,254,234
8	Program Costs	Barnes Exhibit 3		15,278,329	20,974,142	20,862,044	20,854,936	77,969,452
9	Income Before Taxes	Line 7 - Line 8		5,719,543	1,441,103	6,284,584	9,839,552	23,284,782
10	Income Tax Rate			0 391760	0 391713	0 391373	0 391373	
11	Income Taxes	Line 9 * Line 10		2,240,688	564,499	2,459,617	3,850,935	9,115,739
12	Net Income	Line 9 - Line 11		$ 3,478,855	$ 876,604	$ 3,824,968	$ 5,988,617	$ 14,169,044
	Total for SAW Programs Adjusted for DSM Cap							
13	AC Revenues	Line 1 + Line 7		$ 75,044,287	$ 75,475,933	$ 82,841,304	$ 79,702,242	$ 313,063,766
14	Program Costs	Line 2 + Line 8		50,390,340	52,984,294	57,455,121	56,448,748	217,278,503
15	Income Before Taxes	Line 13 - Line 14		24,653,947	22,491,639	25,386,183	23,253,494	95,785,263
16	Income Tax Rate			0 391760	0 391713	0 391373	0 391373	0 391552
17	Income Taxes	Line 15 * Line 16		9,658,430	8,810,267	9,935,467	9,100,790	37,504,954
18	Net Income	Line 15 - Line 17		$ 14,995,516	$ 13,681,372	$ 15,450,716	$ 14,152,704	$ 58,280,309
19	Allowed After tax Return on Program Cost Investment	Line 14 * 15%						32,591,775
20	Allowed Pre-tax Return on Program Cost Investment	Line 19 /(1 Line 16)						53,565,464
21	Avoided Cost Revenues for the SAW program	Line 13						$ 313,063,766
22	Total Program Cost Investment + Allowed Pre tax Return	Line 14 + Line 20						270,843,966
23	Excess Pre-tax Return = Cap Adjustment	Line 21 - Line 22						$ 42,219,799
24	Total Avoided Costs Allowed to Collect	Minimum of Line 21 and Line 22						$ 270,843,966
25	Avoided Cost Revenue Collected (R1-S actuals and R6 estimates)-before GRT	Miller Exhibit 3 pg 2 / (1 001352)						266,136,697
26	Amount to be collected (returned) from (to) Customers	Line 24 - Line 25						**$ 4,707,270**
	Allocation of Cap Adjustment (Line 23) to Residential/Non-Residential and Vintage							
27	Residential Avoided Cost Revenue Collections-Before GRT	Miller Exhibit 3 pg 2/1 001352		$ 38,456,310	$ 25,587,418	$ 35,395,980	$ 28,941,989	$ 128,381,698
28	Non-Residential EE Avoided Cost Revenue Collections-Before GRT	Miller Exhibit 3 pg 2/1 001352		16,501,648	17,151,577	28,653,985	26,839,346	89,146,556
29	Non-Residential DSM Avoided Cost Revenue Collections-Before GRT	Miller Exhibit 3 pg 2/1 001352		9,722,090	10,913,043	13,129,243	14,844,068	48,608,443
30	Total Revenue Collections			$ 64,680,048	$ 53,652,038	$ 77,179,208	$ 70,625,403	$ 266,136,697
	Relative Percentage							
31	Residential Avoided Cost Revenue	Line 27 / Line 30		59%	48%	46%	41%	48%
32	Non-Residential EE Avoided Cost Revenue	Line 28 / Line 30		26%	32%	37%	38%	33%
33	Non Residential DSM Avoided Cost Revenue	Line 29 / Line 30		15%	20%	17%	21%	18%
34	Total Revenue	Line 30 Vintage Total / Line 30 Total Rev Collections		24%	20%	29%	27%	100%
	Cap Adjustment Allocation							
35	Residential	Line 31 * Line 38 Total		$ 6,100,691	$ 4,059,176	$ 5,615,202	$ 4,591,343	$ 20,366,412
36	Non-Residential EE	Line 32 * Line 38 Total		2,617,814	2,720,918	4,545,655	4,257,781	14,142,167
37	Non Residential DSM	Line 33 * Line 38 Total		1,542,308	1,731,240	2,082,817	2,354,856	7,711,220
38	Total Cap Adjustment	Line 34 * Line 23		$ 10,260,812	$ 8,511,334	$ 12,243,673	$ 11,203,980	$ 42,219,799

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Duke Energy Carolinas, LLC
EE/DSM Vintage 1 True Up for the Period June 1, 2009 to December 31, 2009
Docket Number E-7, Sub 1073
Allocation Factors

Line			MWH
	SAW Sales Allocator		
1	NC Retail MWH Sales Allocation	Company Records	53,842,194
2	SC Retail MWH Sales Allocation	Company Records	19,906,425
3	Total Retail	Line 1 + Line 2	73,748,619
	Allocation 1 to state based on kWh sales		
4	NC Retail	Line 1 / Line 3	**73.0077318%**

	Demand Allocators		**NC**	**SC**	**Total**
5	Residential	Company Records	5,281,284	1,692,049	6,973,333
6	Non Residential	Company Records	6,218,623	2,386,563	8,605,186
7	Total	Line 5 + Line 6	11,499,907	4,078,612	15,578,519
	Allocation 2 to state based on peak demand				
8	NC Retail	Line 7, NC / Line 7 Total	**73.8190004%**		
	Allocation 3 NC res vs non-res Peak Demand to retail system peak				
9	NC Residential	Line 5 NC/ Line 7 Total	**33.9010659%**		
10	NC Non-residential	Line 6 NC/ Line 7 Total	**39.9179344%**		

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Duke Energy Carolinas, LLC
EE/DSM Vintage 1 True Up for the Period January 1, 2010 to December 31, 2010
Docket Number E-7, Sub 1073
Allocation Factors

Line			MWH
	SAW Sales Allocator		
1	NC Retail MWH Sales Allocation	Company Records	57,382,346
2	SC Retail MWH Sales Allocation	Company Records	21,540,084
3	Total Retail	Line 1 + Line 2	78,922,430
	Allocation 1 to state based on kWh sales		
4	NC Retail	Line 1 / Line 3	**72.7072722%**

			NC	SC	Total
	Demand Allocators				
5	Residential	Company Records	5,494,974	1,731,591	7,226,565
6	Non Residential	Company Records	6,437,669	2,290,766	8,728,435
7	Total	Line 5 + Line 6	11,932,643	4,022,357	15,955,000
	Allocation 2 to state based on peak demand				
8	NC Retail	Line 7, NC / Line 7 Total	**74.7893638%**		
	Allocation 3 NC res vs non-res Peak Demand to retail system peak				
9	NC Residential	Line 5 NC/ Line 7 Total	**34.4404513%**		
10	NC Non-residential	Line 6 NC/ Line 7 Total	**40.3489126%**		

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Duke Energy Carolinas, LLC
EE/DSM Vintage 2 True Up for the Period January 1, 2011 to December 31, 2011
Docket Number E-7, Sub 1073
Allocation Factors

Line			MWH
	SAW Sales Allocator		
1	NC Retail MWH Sales Allocation	Company Records	55,966,071
2	SC Retail MWH Sales Allocation	Company Records	21,019,094
3	Total Retail	Line 1 + Line 2	76,985,165
	Allocation 1 to state based on kWh sales		
4	NC Retail	Line 1 / Line 3	**72.6972151%**

	Demand Allocators		**NC**	**SC**	**Total**
5	Residential	Company Records	5,179,896	1,627,477	6,807,373
6	Non Residential	Company Records	6,788,010	2,476,617	9,264,627
7	Total	Line 5 + Line 6	11,967,906	4,104,094	16,072,000
	Allocation 2 to state based on peak demand				
8	NC Retail	Line 7, NC / Line 7 Total	**74.4643230%**		
	Allocation 3 NC res vs non-res Peak Demand to retail system peak				
9	NC Residential	Line 5 NC/ Line 7 Total	**32.2293181%**		
10	NC Non-residential	Line 6 NC/ Line 7 Total	**42.2350050%**		

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Duke Energy Carolinas, LLC
EE/DSM Vintage 3 True Up for the Period January 1, 2012 to December 31, 2012
Docket Number E-7, Sub 1073
Allocation Factors

Line			MWH
	SAW Sales Allocator		
1	NC Retail MWH Sales Allocation	Company Records	54,555,907
2	SC Retail MWH Sales Allocation	Company Records	20,466,527
3	Total Retail	Line 1 + Line 2	75,022,434
	Allocation 1 to state based on kWh sales		
4	NC Retail	Line 1 / Line 3	**72.7194575%**

	Demand Allocators		**NC**	**SC**	**Total**
5	Residential	Company Records	5,588,503	1,732,909	7,321,412
6	Non Residential	Company Records	6,397,286	2,322,302	8,719,588
7	Total	Line 5 + Line 6	11,985,789	4,055,211	16,041,000
	Allocation 2 to state based on peak demand				
8	NC Retail	Line 7, NC / Line 7 Total	**74.7197120%**		
	Allocation 3 NC res vs non-res Peak Demand to retail system peak				
9	NC Residential	Line 5 NC/ Line 7 Total	**34.8388691%**		
10	NC Non-residential	Line 6 NC/ Line 7 Total	**39.8808428%**		

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Duke Energy Carolinas, LLC
EE/DSM Vintage 4 True Up for the Period January 1, 2013 to December 31, 2013
Docket Number E-7, Sub 1073
Allocation Factors

Line			MWH
	SAW & New Mechanism Sales Allocator at Generator		
1	NC Retail MWH Sales Allocation	Company Records	58,149,791
2	SC Retail MWH Sales Allocation	Company Records	21,551,077
3	Total Retail	Line 1 + Line 2	79,700,868
	Allocation 1 to state based on kWh sales		
4	NC Retail	Line 1 / Line 3	**72.9600473%**

	Demand Allocators		NC	SC	Total
5	Residential	Company Records	5,051,778	1,502,084	6,553,862
6	Non Residential	Company Records	6,119,392	2,175,746	8,295,138
7	Total	Line 5 + Line 6	11,171,170	3,677,830	14,849,000
	Allocation 2 to state based on peak demand				
8	NC Retail	Line 7, NC / Line 7 Total	**75.2318001%**		
	Allocation 3 NC res vs non-res Peak Demand to retail system peak				
9	NC Residential	Line 5 NC/ Line 7 Total	**34.0209980%**		
10	NC Non-residential	Line 6 NC/ Line 7 Total	**41.2108021%**		

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Duke Energy Carolinas, LLC
Vintage 2014-Vintage 2016 Estimate Allocation for the Period January 1, 2014 to December 31, 2016
Docket Number E-7, Sub 1073
Allocation Factors

Line			MWH
	SAW & New Mechanism Sales Allocator at Generator		
1	NC Retail MWH Sales Allocation	Company Records	58,149,791
2	SC Retail MWH Sales Allocation	Company Records	21,551,077
3	Total Retail	Line 1 + Line 2	79,700,868
	Allocation 1 to state based on kWh sales		
4	NC Retail	Line 1 / Line 3	**72.9600473%**

			NC	SC	Total
	Demand Allocators				
5	Residential	Company Records	5,051,778	1,502,084	6,553,862
6	Non Residential	Company Records	6,119,392	2,175,746	8,295,138
7	Total	Line 5 + Line 6	11,171,170	3,677,830	14,849,000
	Allocation 2 to state based on peak demand				
8	NC Retail	Line 7, NC / Line 7 Total	**75.2318001%**		
	Allocation 3 NC res vs non-res Peak Demand to retail system peak				
9	NC Residential	Line 5 NC/ Line 7 Total	**34.0209980%**		
10	NC Non-residential	Line 6 NC/ Line 7 Total	**41.2108021%**		

NOTE: These allocation factors are used for estimated vintages 2014-2016 based on the latest Cost of Service Study filed in 2014.

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Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 7
Docket Number E-7 Sub 1073
Forecasted kWh Sales for Rate Period for SAW

Fall 2014 Sales Forecast - kWhs

North Carolina Retail:

Line		Revised Estimate Total 2015	Total 2016
1	Residential	**21,388,729,000**	**21,674,738,000**
2	Non-Residential	**35,780,312,000**	**36,268,911,000**
3	Total Retail	**57,169,041,000**	**57,943,649,000**

Opt Out Sales

		2014 kwh usage
	Vintage 1 Opt Out	
4	EE	13,296,546,224
5	DSM	13,784,407,762
	Vintage 2 Opt Out	
6	EE	12,973,155,813
7	DSM	13,318,680,372
	Vintage 3 Opt Out	
8	EE	12,711,971,239
9	DSM	13,168,690,059
	Vintage 4 Opt Out	
10	EE	12,302,899,768
11	DSM	13,053,216,824

Non-Residential Forecast Sales Less Opt Out

(for use in Rider 7 Rate Components)

		V1 EE Rate Components	V1 DSM Rate Components	V2 EE Rate Components	V2 DSM Rate Components	V3 EE Rate Components	V3 DSM Rate Components	V4 EE Rate Components	V4 DSM Rate Components
12	Total Non-Residential	36,268,911,000	36,268,911,000	36,268,911,000	36,268,911,000	36,268,911,000	36,268,911,000	36,268,911,000	36,268,911,000
13	Less V1 EE Opt Out	13,296,546,224							
14	Less V1 DSM Opt Out		13,784,407,762						
15	Less V2 EE Opt Out			12,973,155,813					
16	Less V2 DSM Opt Out				13,318,680,372				
17	Less V3 EE Opt Out					12,711,971,239			
18	Less V3 DSM Opt Out						13,168,690,059		
19	Less V4 EE Opt Out							12,302,899,768	
20	Less V4 DSM Opt Out								13,053,216,824
21	Sales for Rider Calculation	**22,972,364,776**	**22,484,503,238**	**23,295,755,187**	**22,950,230,628**	**23,556,939,761**	**23,100,220,941**	**23,966,011,232**	**23,215,694,176**

Non-Residential Forecast Sales Less Opt Out

(for use in updated 2015 Revenue estimate)

		V1 EE Rate Components	V1 DSM Rate Components	V2 EE Rate Components	V2 DSM Rate Components	V3 EE Rate Components	V3 DSM Rate Components	V4 EE Rate Components	V4 DSM Rate Components
22	Total Non-Residential	35,780,312,000	35,780,312,000	35,780,312,000	35,780,312,000	35,780,312,000	35,780,312,000	35,780,312,000	35,780,312,000
23	Less V1 EE Opt Out	13,296,546,224							
24	Less V1 DSM Opt Out		13,784,407,762						
25	Less V2 EE Opt Out			12,973,155,813					
26	Less V2 DSM Opt Out				13,318,680,372				
27	Less V3 EE Opt Out					12,711,971,239			
28	Less V3 DSM Opt Out						13,168,690,059		
29	Less V4 EE Opt Out							12,302,899,768	
30	Less V4 DSM Opt Out								13,053,216,824
31	Sales for Rider Calculation	**22,483,765,776**	**21,995,904,238**	**22,807,156,187**	**22,461,631,628**	**23,068,340,761**	**22,611,621,941**	**23,477,412,232**	**22,727,095,176**

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Duke Energy Carolinas, LLC
DSM/EE Cost Recovery Rider 7
Docket Number E-7 Sub 1073
Forecasted kWh Sales for Rate Period for Vintage Years 2014-2016

Fall 2014 Sales Forecast - kWhs

North Carolina Retail:

Line		Total 2015	Total 2016
1	Residential	**21,388,729,000**	**21,674,738,000**
2	Non-Residential	**35,046,050,545**	**35,534,649,545**
3	Total Retail	**56,434,779,545**	**57,209,387,545**

Opt Out Sales

		2014 kWh Usage
	Vintage 2014 Estimated Opt Out	
4	EE	11,710,358,468
5	DSM	12,396,526,283
	Vintage 2015 Estimated Opt Out	
6	EE	11,780,971,318
7	DSM	12,451,913,984
	Vintage 2016 Estimated Opt Out	
8	EE	11,780,971,318
9	DSM	12,451,913,984

Non-Residential Forecast Sales Less Opt Out (to be used for Rider 7 Rate Components)

		2014 EE Rate Components	2014 DSM Rate Components	2015 EE Rate Components	2015 DSM Rate Components	2016 EE Rate Components	2016 DSM Rate Components
10	Total Non-Residential	35,534,649,545	35,534,649,545	35,534,649,545	35,534,649,545	35,534,649,545	35,534,649,545
11	Less V2014 Estimated Opt Out	11,710,358,468					
12	Less V2014 Estimated DSM Opt Out		12,396,526,283				
13	Less V2015 Estimated EE Opt Out			11,780,971,318			
14	Less V2015 Estimated DSM Opt Out				12,451,913,984		
15	Less V2016 Estimated EE Opt Out					11,780,971,318	
16	Less V2016 Estimated DSM Opt Out						12,451,913,984
17	Sales for Rider Calculation	**23,824,291,077**	**23,138,123,262**	**23,753,678,227**	**23,082,735,561**	**23,753,678,227**	**23,082,735,561**

Non-Residential Forecast Sales Less Opt Out (to be used for updated Rider 6 revenue estimate)

		2014 EE Rate Components	2014 DSM Rate Components	2015 EE Rate Components	2015 DSM Rate Components	2016 EE Rate Components	2016 DSM Rate Components
18	Total Non-Residential	35,046,050,545	35,046,050,545	35,046,050,545	35,046,050,545	35,046,050,545	35,046,050,545
19	Less V2014 Estimated Opt Out	11,710,358,468					
20	Less V2014 Estimated DSM Opt Out		12,396,526,283				
21	Less V2015 Estimated EE Opt Out			11,780,971,318			
22	Less V2015 Estimated DSM Opt Out				12,451,913,984		
23	Less V2016 Estimated EE Opt Out					11,780,971,318	
24	Less V2016 Estimated DSM Opt Out						12,451,913,984
25	Sales for Rider Calculation	**23,335,692,077**	**22,649,524,262**	**23,265,079,227**	**22,594,136,561**	**23,265,079,227**	**22,594,136,561**

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RIDER EE (NC)
ENERGY EFFICIENCY RIDER

APPLICABILITY (North Carolina Only)
Service supplied under the Company's rate schedules is subject to approved adjustments for new energy efficiency and demand-side management programs approved by the North Carolina Utilities Commission (NCUC) The Rider Adjustments are not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate Cost recovery under Rider EE consists of two four-year term programs, years 2009 – 2013 and years 2014 – 2017 as outlined separately below This rider applies to service supplied under all rate schedules for program years 2009-2013 but does not apply to Rate Schedules OL, FL, PL, GL, and NL for program years 2014-2017

I PROGRAM YEARS 2009-2013

GENERAL PROVISIONS
This Rider will recover the cost of new energy efficiency and demand-side management programs, using the method approved by the NCUC, for programs implemented over a four-year period (*i e*, comprising four 12-month program years or "Vintage Years") In each year this Rider will include components to recover revenue requirements related to demand-side management and energy efficiency programs implemented in that Vintage Year, as well as net lost revenues resulting from the energy efficiency programs Net lost revenues are revenue losses, net of both marginal costs avoided at the time of the lost kilowatt hour sale(s) and increases in revenues resulting from any activity by the Company's public utility operations that cause a customer to increase demand or energy consumption Net lost revenues associated with each Vintage Year will be recovered for 36 months upon implementation, except that the recovery of net lost revenues will end upon implementation of new rates approved by the Commission in a general rate case or comparable proceeding to the extent that rates are set in a rate case for vintages up to that point To recover net lost revenues for programs implemented in years 3 and 4, the Rider will continue beyond the four-year period

Revenue requirements will be determined on a system basis and allocated to North Carolina retail customers based on the North Carolina retail contribution to system retail peak demand for demand side management programs and North Carolina retail contribution to system retail kWh sales for energy efficiency programs Residential customer classes will pay for residential programs and nonresidential customer classes will pay for nonresidential programs through methods found appropriate by the Commission for demand-side management and energy efficiency programs, respectively All allocation factors will be based on the Company's most recently filed cost of service study utilizing the allocation method approved by NCUC in the Company's most recent general rate proceeding and will exclude the amounts related to customers that elect to opt out of this Rider

TRUE-UP PROVISIONS
Rider amounts will initially be determined based on estimated kW and kWh impacts related to expected customer participation in the programs, and will be trued-up as actual customer participation and actual kW and kWh impacts are verified If a customer participates in any vintage of programs, the customer is subject to the true-ups as discussed in this section for any vintage of programs in which the customer participated

Participation true-ups After the completion of the first Vintage Year, the Rider will include a true-up of previous Rider amounts billed to reflect actual customer participation in the programs

Measurement and verification true-up In the seventh year a final true-up will be based on changes in participation combined with actual verified kW and kWh savings

Earnings cap true-up In the seventh year, a true up will adjust customer bills, if applicable, to refund with interest, amounts collected through the Rider in excess of the earnings cap, in accordance with the following levels of achievement of actual energy and peak demand reductions and allowed return on investment

Percentage Actual Target Achievement	Return on Investment Cap on Program Costs Percentage
>=90%	15%
80% to 89%	12%
60% to 79%	9%
< 60%	5%

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RIDER EE (NC)
ENERGY EFFICIENCY RIDER

DETERMINATION OF ENERGY EFFICIENCY RIDER ADJUSTMENT

Energy Efficiency Adjustments (EEA) will be applied to the energy in kilowatt hours (kWh) billed of all rate schedules for each vintage as determined by the following formula, adjusted as appropriate for the time value of money.

EEA Residential (expressed as cents per kWh) =

(Residential Avoided Cost Revenue Requirement + Residential Net Lost Revenues) / Forecasted Residential kWh Sales for the Rider billing period

Where
Residential Avoided Cost Revenue Requirement = (Residential Demand-Side Management Program Avoided Cost X 75%) + (Residential Energy Efficiency Program Avoided Cost X 50%)

EEA Nonresidential (expressed as cents per kWh) =

(Nonresidential Avoided Cost Revenue Requirement + Nonresidential Net Lost Revenues) / Forecasted Non residential kWh Sales for the Rider billing period

Where
Nonresidential Avoided Cost Revenue Requirement = (Nonresidential Demand-Side Management Program Avoided Cost X 75%) + (Nonresidential Energy Efficiency Program Avoided Cost X 50%)

II PROGRAM YEARS 2014-2017

GENERAL PROVISIONS

This Rider will recover the cost of new energy efficiency and demand-side management programs, using the method approved by the NCUC, for programs implemented over a four-year period (*i e.*, comprising four 12-month program years or "Vintage Years").

TRUE-UP PROVISIONS

Rider amounts will initially be determined based on estimated kW and kWh impacts related to expected customer participation in the programs, and will be trued-up as actual customer participation and actual kW and kWh impacts are verified. If a customer participates in any vintage of programs, the customer is subject to the true-ups as discussed in this section for any vintage of programs in which the customer participated.

RIDER EE OPT OUT PROVISION FOR QUALIFYING NONRESIDENTIAL CUSTOMERS

The Rider EE increment applicable to energy efficiency programs and/or demand-side management programs will not be applied to the energy charge of the applicable rate schedule for Customers qualified to opt out of the programs where

a. The Customer has notified the Company that it has, or has plans for implementing alternative energy efficiency measures in accordance with quantifiable goals.
b. Electric service to the Customer must be provided under:
   1. An electric service agreement where the establishment is classified as a "manufacturing industry" by the Standard Industrial Classification Manual published by the United States Government and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes. Additionally, all other agreements billed to the same entity associated with the manufacturing industry located on the same or contiguous properties are also eligible to opt out.
   2. An electric service agreement for general service as provided for under the Company's rate schedules where the Customer's annual energy use is 1,000,000 kilowatt hours or more. Additionally, all other agreements billed to the same entity with lesser annual usage located on the same or contiguous properties are also eligible to opt out.

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RIDER EE (NC)
ENERGY EFFICIENCY RIDER

The following additional provisions apply for qualifying customers who elect to opt out:

For Customers who elect to opt out of energy efficiency programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's energy efficiency programs each calendar year only during the annual two-month enrollment period between November 1 and December 31 immediately prior to a new Rider EE becoming effective on January 1. (Qualifying new customers have sixty days after beginning service to opt out).
- Customers may not opt out of individual energy efficiency programs offered by the Company. The choice to opt out applies to the Company's entire portfolio of energy efficiency programs.
- If a customer participates in any vintage of energy efficiency programs, the customer, irrespective of future opt out decisions, remains obligated to pay the remaining portion of the lost revenues for each vintage of energy efficiency programs in which the customer participated.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's energy efficiency programs during the first 5 business days of March each calendar year. Customers making this election will be back-billed retroactively to the effective date of the new Rider EE.

For Customers who elect to opt out of demand-side management programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's demand-side management program during the enrollment period between November 1, and December 31 immediately prior to a new Rider EE becoming effective on January 1 of the applicable year. (Qualifying new customers have sixty days after beginning service to opt out)
- If a customer elects to participate in a demand-side management program, the customer may not subsequently choose to opt out of demand-side management programs for three years.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's demand-side management program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new Rider EE.

Any qualifying nonresidential customer that has not participated in an energy efficiency or demand-side management program may opt out during any enrollment period, and have no further responsibility to pay Rider EE amounts associated with the Customer's opt out election for energy efficiency and/or demand-side management programs

ENERGY EFFICIENCY RIDER ADJUSTMENTS (EEA) FOR ALL PROGRAM YEARS

The Rider EE amounts applicable to the residential and nonresidential rate schedules for the period January 1, 2016 through December 31, 2016 including utility assessments are as follows·

Residential	Vintage 1, 2. 3,4, and 2014[1]	0.0260¢ per kWh
	Vintage 2014[2], 2015, 2016	0.3361¢ per kWh
	Total Residential Rate	0.3621¢ per kWh
Nonresidential		
Vintage 1		
	Energy Efficiency	0.0027¢ per kWh
	Demand Side Management	0.0017¢ per kWh
Vintage 2		
	Energy Efficiency	0.0148¢ per kWh
	Demand Side Management	0.0019¢ per kWh
Vintage 3		
	Energy Efficiency	0.0261¢ per kWh
	Demand Side Management	(0.0017)¢ per kWh

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RIDER EE (NC)
ENERGY EFFICIENCY RIDER

Vintage 4	
Energy Efficiency	0.0326¢ per kWh
Demand Side Management	0.0005¢ per kWh
Vintage 2014[3]	
Energy Efficiency	0.0406¢ per kWh
Demand Side Management	(0.0044)¢ per kWh
Vintage 2015[3]	
Energy Efficiency	0.0345¢ per kWh
Demand Side Management	NA
Vintage 2016[3]	
Energy Efficiency	0.2164¢ per kWh
Demand Side Management	0.0709¢ per kWh
Total Nonresidential	0.4366¢ per kWh

[1] Includes the true-up of program costs, shared savings and lost revenues from Year 1 of Vintage 2014
[2] Includes the estimate of Year 3 lost revenues of Vintage 2014
[3] Not Applicable to Rate Schedules OL, FL, PL, GL, and NL

Each factor listed under Nonresidential is applicable to nonresidential customers who are not eligible to opt out and to eligible customers who have not opted out. If a nonresidential customer has opted out of a Vintage(s), then the applicable energy efficiency and/or demand-side management charge(s) shown above for the Vintage(s) during which the customer has opted out. will not apply to the bill.

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Planned Evaluation, Measurement and Verification (EMV) Activities through the rate period (Dec 31, 2016)

		Evaluation Activities 2015-2016 [1]							
Residential Program	Program/Measure	Q1 2015	Q2 2015	Q3 2015	Q4 2015	Q1 2016	Q2 2016	Q3 2016	Q4 2016
Appliance Recycling Program	Refrigerator Freezer		Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report				
Energy Education Program for Schools	K12 Curriculum		Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report				
Energy Efficient Appliances & Devices	Residential CFL	Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report					
Energy Efficient Appliances & Devices	Water EE Products		Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report				
Energy Efficient Appliances & Devices	Water Heater Pool Pumps [2]			Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report			
Income Qualified EE Products & Services	Weatherization Refrigerator Replacement						Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report
Income Qualified EE Products & Services	Neighborhood Initiative					Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report
Multi Family Energy Efficiency	Water EE Products			Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report				
Multi Family Energy Efficiency	Lighting					Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report	
My Home Energy Report	My Home Energy Report					Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report
Power Manager	Power Manager	Process Evaluation Report Impact Analysis	Impact Evaluation Report		Process Analysis	Process Evaluation Report Impact Analysis	Impact Evaluation Report		

The following Residential programs do not have evaluation reports scheduled for delivery in 2015 2016 EE Appliances and Devices Specialty Bulbs HVAC EE Products & Services, Multi Family Energy Efficiency Lighting (CFL Property Manager), Residential Energy Assessments

		Evaluation Activities 2015 2016 [3]							
Non Residential Program	Description	Q1 2015	Q2 2015	Q3 2015	Q4 2015	Q1 2016	Q2 2016	Q3 2016	Q4 2016
Non Residential Smart $aver Custom Incentive [3]	Custom Rebate	Process Analysis	Process Analysis	Impact Analysis	Impact Analysis	Process Analysis	Process Analysis	Impact Analysis	Impact Analysis
Non Residential Smart $aver Energy Star Food Service Products [3]	Energy Star Food Service Products			Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report			
Non Residential Smart $aver HVAC [3]	HVAC			Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report			
Non Residential Smart $aver Lighting [3]	Lighting				Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report		
Non Residential Smart $aver Motors Pumps & VFDs [3]	Motors Pumps & VFDs			Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report			
Process Equipment [3]	Process Equipment			Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report			
PowerShare Call Option	PowerShare Call Option	Impact Evaluation Report				Impact Evaluation Report			
PowerShare	PowerShare	Impact Evaluation Report				Impact Evaluation Report			
Small Business Energy Saver	Small Business Energy Saver					Process Analysis Impact Analysis	Process Analysis Impact Analysis	Process Evaluation Report Impact Evaluation Report	

The following Non Residential programs do not have evaluation reports scheduled for delivery in 2015 2016 Custom Assessments, Information Technology and Smart Energy in Offices

Future Process and Impact Evaluation Report dates are projections only Actual report dates will vary depending on program participation to provide a significant sample and the time needed to collect adequate data

[2] Evaluation work for Water Heaters and Pool Pumps will be delayed if participation remains low

[3] Evaluation work for the following programs will be done in batches with some data collected each year to contribute to the final analysis Custom Incentive, Energy Star Food Service Products HVAC, Lighting Motors Pumps & VFDs and Process Equipment

LEGEND	
Process Analysis	Process surveys/interviews (customers or other) for purposes of report that follows
Impact Analysis	Impact data collection (onsites billing data) and analysis for purposes of report that follows
Evaluation Report	EM&V Report

Ham Exhibit 2

I/A

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Ham Exhibit 2 - March 2015

EM&V EFFECTIVE DATE TIMELINE

This chart contains the expected timeline with end of customer data sample period for impact evaluation and when the impact evaluation report is expected to be completed

Unless otherwise noted, original impact estimates are replaced with the first impact evaluation results, after which time subsequent impact evaluation results are applied prospectively

Program	Program/Measure	2014				2015				2016				2017			
		Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4	Quarter 1	Quarter 2	Quarter 3	Quarter 4
Appliance Recycling	Refrigerator, Freezer	1st EM&V	Report					2nd EM&V	Report							3rd EM&V	Report
Energy Efficiency Education (K12 Curriculum)	Energy Efficiency Education (K12 Curriculum)							3rd EM&V	Report								
Energy Efficient Appliance and Devices	Lighting Smart Saver RCFL						3rd EM&V	Report							4th EM&V	Report	
	Lighting Specialty Bulbs			1st EM&V	Report										2nd EM&V	Report	
	SF Water EE Products							1st EM&V	Report								
	HP Water Heater & Pool Pumps								1st EM&V	Report							
HVAC Energy Efficiency	Residential Smart Saver AC and HP															3rd EM&V	Report
	Tune & Seal Measures			1st EM&V	Report											2nd EM&V	Report
Income Qualified Energy Efficiency	Weatherization											1st EM&V	Report				
	Refrigerator Replacement											1st EM&V	Report				
	Low Income Neighborhood			1st EM&V	Report							2nd EM&V	Report				
Multi Family Energy Efficiency	MF Water EE Products							1st EM&V	Report								
	Lighting (CFL Property Manager)										2nd EM&V	Report					
My Home Energy Report	MyHER	Report										3rd EM&V	Report				
Residential Energy Assessments	Home Energy House Call														3rd EM&V	Report	
Non Residential Smart Saver Energy Efficiency Custom	Non Res SmartSaver Custom Rebate													2nd EM&V	Report		
Non Residential Smart Saver Energy Effiency Food Service	Non Res Smart Saver Energy Efficiency Food Service								2nd EM&V	Report							
Non Residential Smart Saver Energy Effiency HVAC Products	Non Res Smart Saver Energy Efficiency HVAC Products								2nd EM&V	Report							
Non Residential Smart Saver Energy Effiency Lighting	Non Re Smart Saver Prescriptive Lighting									2nd EM&V	Report						
	Non Res Smart Saver Prescriptive Other									3rd EM&V	Report						
Non Residential Smart Saver Energy Effiency Motors Pumps Drives	Non Res SmartSaver Prescriptive (VFDs or other)								2nd EM&V	Report							
Non Residential Smart Saver Energy Effiency Process Equipment	Non-Res Smart Saver Energy Efficiency Process Equip								2nd EM&V	Report							
Small Business Energy Saver	SBES										1st EM&V	Report					
Smart Energy in Offices	Smart Energy in Offices	Report													2nd EM&V	Report	

Original Estimate
1st EM&V
2nd EM&V
3rd EM&V
4th EM&V

Allred Exhibit 1

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May 20 2015

TAYLOR ALLRED

P.O. Box 1842
Knoxville, TN 37901

Phone: (865) 637-6055 Ext. 11
Email: taylor@cleanenergy.org

EXPERIENCE

2014-Present **Southern Alliance for Clean Energy**, Knoxville, Tenn.
Energy Policy Manager

- Track and participate in energy efficiency regulatory proceedings in the Southeast, including integrated resource planning, cost-recovery filings, energy efficiency program pilots and existing program modifications.
- Develop comments and testimony in energy efficiency proceedings before commissions in South Carolina, North Carolina, Mississippi and Florida.
- Lead advocacy work for energy efficiency programs and renewable energy at local power companies served by the Tennessee Valley Authority.
- Coordinate with allied organizations and rally grassroots support for energy efficiency programs and renewable energy in Tennessee.

2011-2013 **Regulatory Research Associates (RRA),** Jersey City, N.J.
Subsidiary of SNL Financial
***Financial Analyst,* Mid-Atlantic Electric and Gas Utility Regulation**

- Took over publication of financial analysis on the investor impacts of utility rate cases and rider proceedings in the Mid-Atlantic. Analyzed testimony and exhibits, focusing on recommended returns on equity (ROEs), and adjustments to rate base and net operating income. Coverage consisted of timely articles on new developments throughout every proceeding and RRA Final Reports with investor outlooks for each commission rate decision.
- Authored RRA State Regulatory Reviews, which provide updated RRA Commission Rankings and utility-commission profiles containing analyses of each state regulatory environment and its financial implications for utilities.
- Wrote and edited breaking news and research reports analyzing legislation, mergers and acquisitions (M&A), industry restructuring, renewable portfolio standards, energy efficiency programs, decoupling, reliability and more.
- Served as the RRA analyst in charge of planning and leading online product development. Employed an Agile project management framework as the subject matter expert interfacing with development teams, project managers, product managers, executives and other stakeholders. Originated a deep pipeline of ideas for new product enhancements, created graphic mock-ups, assisted in the management of technical requirements (including some basic SQL database work), answered developers' questions, led user acceptance testing (UAT), and helped to develop and present formal business cases to SNL Financial's executive board, including cost analysis, usage projections, and targets for subscription-value growth, ROE and profitability margins.

2008-2011 **SNL Financial,** Charlottesville, Va.
***Senior Analyst*, Financial Institutions Group, Editorial**

- Specialized in publishing Data Dispatch reports on complex, high-priority banking data, focusing on post-crisis recapitalization, M&A, branch deposits and data reported under the Troubled Asset Relief Program (TARP).

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- Utilized an Agile framework as the UAT coordinator on an industry award-winning, $1 million-budget mapping application's development team.

***Senior Analyst,* Energy Research and Product Operations**

- Managed the development of SNL Energy's Excel-based data models, often utilizing Visual Basic for Applications. Advanced models created include an ROE comparison and DuPont analysis model for utilities, a regional power market supply-and-demand model, a customizable template for analyzing pipeline financials, a benchmarking model for power plants, and a credit-scoring model for utilities and electric cooperatives.
- Authored a Data Dispatch report on renewable power plants in Virginia and the Carolinas that was reprinted by the *Charlotte Business Journal.*
- Designated as the lead trainer and team expert on commodities, coal, emissions and electric generation technologies.
- Implemented enhancements to an internal training program that reduced the lead time for new analysts by 33% while including more energy-sector topics.

***Analyst,* Energy Research and Product Operations**

- Pioneered the establishment of a highly successful data analysis feature, publishing weekly Data Dispatch reports comparing SNL Energy-covered companies, and analyzing financial and operating trends in the energy sector.
- Produced custom data reports and Excel templates for SNL Energy clients.
- Supported clients with data services covering equity markets, debt securities, merchant generators, gas and oil pipelines, power plant operations, coal production, commodities, and electric and gas utility financials.
- Maintained an average feedback rating of 9.6 out of 10 while assisting equity research analysts, utility analysts and consultants in interpreting and utilizing energy data for projects such as research reports, M&A, asset valuation, fuel scheduling, commodity hedging, utility rate cases and power purchases.

EDUCATION

Corporate Training

Mid-Atlantic Conference of Regulatory Utility Commissioners
Annual Education Conference, Hershey, Pa., 2012-2013
National Association of Regulatory Utility Commissioners
Annual Education Conference, St. Louis, 2011
New York analyst meetings — Edison Electric Institute, American Gas Association and energy companies' quarterly meetings, 2011-2013
SNL Center for Financial Education — Analyst Training in the Power and Gas Sectors, Stamford, Conn., 2009
Enerdynamics — Understanding the Electric Business, Washington, 2008
Training the Street — Fundamentals of Corporate Valuation, self-study, 2008

2008 — Completed SNL's internal analyst-training programs, covering energy infrastructure and operations, accounting, finance, auditing, and more.

2004-2008 — **University of Virginia (UVA)**, Charlottesville, Va.

- Bachelor of Arts in History, minor in economics.
- Dean's List four semesters; Jefferson Scholar finalist.

FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY
CONSERVATION PROGRAM COSTS

SCHEDULE CT-2

JANUARY THROUGH DECEMBER 2013

ECCR - CT-2 - Page 2	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Rebates	Vehicles	Other	Sub-Total	Program Revenue	Total for Period
1 Residential Home Energy Survey	$32 152	$4 438 063	$19 885	$1 052 161	$5 586 826		$99 523	$482 192	$11 710 801	$0	$11 710 801
2 Residential Building Envelope		$360 944	$742	$186 442	$799	$2 645 958	$12 600	$22 712	$3 230 196	$0	$3 230 196
3 Residential Duct System Testing & Repair		$525 037	$1 790	$51 945		$127 735	$6 000	($87 120)	$625 387	$0	$625 387
4 Residential Air Conditioning		$2 159 735	$3 786	$286 878		$62 891 554	$50 895	$125 437	$65 518 286	$0	$65 518 286
5 Residential New Construction (BuildSmart®)		$494 038	$532	$107 066	$2 325	$13 642		$50 167	$667 770	$0	$667 770
6 Residential Low-Income Weatherization		$48 187	$50			$74 400		$14 790	$137 427	$0	$137 427
7 Residential Load Management (On Call)	$6 064 339	$61 494	$319 028	$2 549 502	$3 996	$45 534 348	$52 759	$512 842	$55 098 307	$0	$55 098 307
8 Business Energy Evaluation		$3 955 912	$6 475	$477 116	$2 782 744		$21 450	$307 904	$7 551 601	$0	$7 551 601
9 Business Efficient Lighting		$213 119	$146	$51 642		$288 666		$10 767	$564 340	$0	$564 340
10 Business Heating Ventilating & A/C		$604 744	$1 039	$144 740		$5 879 875	$5 000	$72 691	$6 708 088	$0	$6 708 088
11 Business Custom Incentive		$29 771				$781 767		$2 164	$813 702	$0	$813 702
12 Business Building Envelope		$477 291	$684	$114 634		$6 395 145		$25 055	$7 012 809	$0	$7 012 809
13 Business Water Heating		$11 178	$13	$4 749		$17 150		$1 869	$34 958	$0	$34 958
14 Business Refrigeration		$17 472	$186	$6 700		$4 800		$1 797	$30 955	$0	$30 955
15 Business On Call	$339 620	$85 539	$1 829	$276 937		$3 199 965		$32 931	$3 936 822	$0	$3 936 822
16 Commercial/Industrial Load Control		$232 173	$101	$550	$14	$39 489 194	$30	$51 144	$39 773 207	$0	$39 773 207
17 Commercial/Industrial Demand Reduction		$233 320	$138	$276	$0	$15 952 941		$61 661	$16 248 336	$0	$16 248 336
18 Res Solar Water Heating Pilot		$197 530	$175	$105 161		$1 084 000		$5 987	$1 392 853	$0	$1 392 853
19 Res Solar Water Heating (LINC) Pilot		$62 257	$46			$414 319		$3 531	$480 153	$0	$480 153
20 Residential Photovoltaic Pilot		$174 735	$206	$7 014		$4 224 696		$6 324	$4 412 975	$0	$4 412 975
21 Business Solar Water Heating Pilot		$32 276	$8	$72 640		$19 917		$1 466	$126 308	$0	$126 308
22 Business Photovoltaic Pilot		$90 717	$46	$65 634		$1 790 055		$2 502	$1 948 955	$0	$1 948 955
23 Business Photovoltaic for Schools Pilot	$136 977	$100 847		$150 607			$176	$25 465	$414 071	$0	$414 071
24 Renewable Research & Demo Project		$68 709		$474 885				$54 088	$597 682	$0	$597 682
25 Solar Pilot Projects Common Expenses	$475 492	$72 777		$3 203				$2 502	$553 974	$0	$553 974
26 Cogeneration & Small Power Production		$750 440	$14					($172 172)	$578 282	$0	$578 282
27 Conservation Research & Development		$78 091	$121 191	$266 843	$7 993			$656	$474 773	$0	$474 773
28 Common Expenses	$2 387 061	$8 908 881	$4 759	$895 090	$46 137		$23 027	$1 535 561	$13 800 517	$0	$13 800 517
29 Subtotal All Programs	$9 435 641	$24 485 275	$482 869	$7 352 417	$8 430 834	$190 830 125	$271 459	$3 154 913	$244 443 534	$0	$244 443 534
30 Less Included in Base Rates		($147 281)							($147 281)	$0	($147 281)
31 Recoverable Conservation Expenses	$9 435 641	$24 337 995	$482 869	$7 352 417	$8 430 834	$190 830 125	$271 459	$3 154 913	$244 296 253	$0	$244 296 253

Totals may not add due to rounding

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ALLRED EXHIBIT 2

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FLORIDA POWER & LIGHT COMPANY
ENERGY CONSERVATION COST RECOVERY
CONSERVATION PROGRAM VARIANCE

SCHEDULE CT-2

JANUARY THROUGH DECEMBER 2013

ECCR - CT-2 - Page 3	Depreciation & Return	Payroll & Benefits	Materials & Supplies	Outside Services	Advertising	Rebates	Vehicles	Other	Sub-Total	Program Revenue	Total for Period
1 Residential Home Energy Survey	(11 866)	(399 676)	10 364	36 477	(298 080)		11 602	116 478	(534 701)	0	(534 701)
2 Residential Building Envelope		(6 611)	551	3 059	799	(392 310)	6 300	(6 723)	(394 935)	0	(394 934)
3 Residential Duct System Testing & Repair		(145 518)	1 355	(28 711)		(21 561)	210	(10 793)	(205 017)	0	(205 017)
4 Residential Air Conditioning		29 430	1 544	(57 124)		5 146 552	13 868	29 335	5 163 606	0	5 163 606
5 Residential New Construction (BuildSmart®)		13 255	532	21 138	(7 800)	(1 174)		15 551	41 503	0	41 503
6 Residential Low-Income Weathenzation		($10 974)	$29	($1 664)		($32 354)		($1 698)	($46 660)	$0	($46 660)
7 Residential Load Management (On Call)	($56 400)	($805 618)	$4 149	$902 448	$3 996	($1 093 160)	($19 033)	($58 109)	($1 121 726)	$0	($1 121 726)
8 Business Energy Evaluation		($201 815)	($4 991)	($421 616)	$214 458		($1 485)	$99 476	($315 973)	$0	($315 973)
9 Business Efficient Lighting		($390)	$143	$7 070		$31 750		$1 249	$39 823	$0	$39 823
10 Business Heating Ventilating & A/C		($45 468)	$572	$4 753		($809 555)	$2 274	$6 197	($841 226)	$0	($841 226)
11 Business Custom Incentive		$9 242		($11 672)		$104 106		$445	$102 122	$0	$102 122
12 Business Building Envelope		($35 438)	$648	$16 472		($1 103 903)		$3 908	($1 118 314)	$0	($1 118 314)
13 Business Water Heating		$2 762	$13	$954		($1 552)		$1 123	$3 300	$0	$3 300
14 Business Refrigeration		$2 390	$185	$1 295		$1 827		$276	$5 974	$0	$5 974
15 Business On Call	($3 045)	($2 202)	($520)	$24 417		($171 788)	($297)	($5 305)	($158 740)	$0	($158 740)
16 Commercial/Industrial Load Control		$19 154	$44	$441	$14	($201 188)	$30	($15 512)	($197 016)	$0	($197 016)
17 Commercial/Industrial Demand Reduction		($5 217)	($45)	($6 390)	$0	$3 330	($99)	($26 665)	($35 086)	$0	($35 086)
18 Res Solar Water Heating Pilot		$7 772	$173	($55 681)		($165 000)		($60)	($212 796)	$0	($212 796)
19 Res Solar Water Heating (LINC) Pilot		($2 377)	$46	($16 752)		($492 319)		$383	($511 019)	$0	($511 019)
20 Residential Photovoltaic Pilot		($2 317)	$201	($5 486)		$521 199		$1 276	$514 874	$0	$514 874
21 Business Solar Water Heating Pilot		($2 330)	$8	($70 057)		($475 891)		($902)	($549 173)	$0	($549 173)
22 Business Photovoltaic Pilot		$7 479	$46	($16 154)		($72 870)		($182)	($81 681)	$0	($81 681)
23 Business Photovoltaic for Schools Pilot	($214 694)	$405		$8 379			($660)	$10 254	($196 317)	$0	($196 317)
24 Renewable Research & Demo Project		$25 839		($623 217)				$643	($596 734)	$0	($596 734)
25 Solar Pilot Projects Common Expenses	($1)	$125		$6 889				$1 860	$8 873	$0	$8 873
26 Cogeneration & Small Power Production		($11 712)	($197)					($8 474)	($20 383)	$0	($20 383)
27 Conservation Research & Development		$1 437	$121 191	$26 372	$7 993			$638	$157 630	$0	$157 630
28 Common Expenses	($2 768)	($439 534)	$587	($261 528)	$17 298		($22 354)	($144 635)	($852 935)	$0	($852 935)
29 Subtotal All Programs	($288 774)	($1 997 905)	$136 628	($515 887)	($61 321)	$774 140	($9 643)	$10 034	($1 952 729)	$0	($1 952 729)
30 Less Included in Base Rates										$0	$0
31 Recoverable Conservation Expenses	($288 774)	($1 997 905)	$136 628	($515 887)	($61 321)	$774 140	($9 643)	$10 034	($1 952 729)	$0	($1 952 729)

Totals may not add due to rounding

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DUKE ENERGY CAROLINAS, LLC
Docket No. E-7, Sub 1073
RIDER 7 DSM/EE BILLING FACTORS PROPOSED BY COMPANY

Description	Revenue Requirement	Applicable Rate Period MWH Sales	Billing Factor (cents per kWh)	Applicable Customers
Residential Vintage Year 2016 (Prospective) – Subtotal	$58,886,406			
Residential Vintage Year 2015 (Prospective Net Lost Revenues) – Subtotal	$4,071,955			
Residential Vintage Year 2014 (Prospective Net Lost Revenues) – Subtotal	$9,895,892			
Total Prospective Residential Rider 7	$72,854,253	21,674,738	0.3361[1]	All residential customers
Residential Vintage Year 2014 True-Up – Subtotal	$666,440			
Residential Vintage Year 4 True-Up – Subtotal	$4,129,838			
Residential Vintage Year 3 True-Up – Subtotal	$(4,004,005)			
Residential Vintage Year 2 True-Up – Subtotal	$3,177,348			
Residential Vintage Year 1 True-Up – Subtotal	$1,668,314			

[1] The aggregate proposed billing factor applicable to all Residential customers is the sum of the Residential prospective and Residential true-up factors: 0.3621 cents per kWh.

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DUKE ENERGY CAROLINAS, LLC
Docket No. E-7, Sub 1073
RIDER 7 DSM/EE BILLING FACTORS PROPOSED BY COMPANY

Description	Revenue Requirement	Applicable Rate Period MWH Sales	Billing Factor (cents per kWh)	Applicable Customers
Total Residential Rider 7 True-Up	$5,637,935	21,674,738	0.0260[1]	All residential customers
Non-Residential Vintage Year 2016 EE Participant (Prospective)	$51,408,650	23,753,678	0.2164	Non-residential customers that do not opt out of Vintage Year 2016 EE
Non-Residential Vintage Year 2016 DSM Participant (Prospective)	$16,375,648	23,082,736	0.0709	Non-residential customers that do not opt out of Vintage Year 2016 DSM
Non-Residential Vintage Year 2015 EE Participant (Prospective Net Lost Revenues)	$8,194,003	23,753,678	0.0345	Non-residential customers that opted in and participated in an EE program during Vintage Year 2015 or, if they did not participate, do not opt out of Vintage Year 2016 EE
Non-Residential Vintage Year 2014 EE Participant (Prospective Net Lost Revenues)	$6,094,150	23,824,291	0.0256	Non-residential customers that opted in and participated in an EE program during Vintage Year 2014 or, if they did not participate, do not opt out of Vintage Year 2016 EE
Non-Residential Vintage Year 2014 EE Participant (True-Up)	$3,581,616	23,824,291	0.0150	Non-residential customers that opted in and participated in an EE program during Vintage Year 2014 or, if they did not participate, do not opt out of Vintage Year 2016 EE

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DUKE ENERGY CAROLINAS, LLC
Docket No. E-7, Sub 1073
RIDER 7 DSM/EE BILLING FACTORS PROPOSED BY COMPANY

Description	Revenue Requirement	Applicable Rate Period MWH Sales	Billing Factor (cents per kWh)	Applicable Customers
Non-Residential Vintage Year 2014 DSM Participant (True-Up)	$(1,012,916)	23,138,123	(0.0044)	Non-residential customers that opted in and participated in a DSM program during Vintage Year 2014 or, if they did not participate, do not opt out of Vintage Year 2016 DSM
Non-Residential Vintage Year 4 EE Participant (True-Up)	$7,819,931	23,966,011	0.0326	Non-residential customers that opted in and participated in an EE program during Vintage Year 4 (2013) or, if they did not participate, do not opt out of Vintage Year 2016 EE
Non-Residential Vintage Year 4 DSM Participant (True-Up)	$105,113	23,215,694	0.0005	Non-residential customers that opted in and participated in a DSM program during Vintage Year 4 (2013) or, if they did not participate, do not opt out of Vintage Year 2016 DSM
Non-Residential Vintage Year 3 EE Participant (True-Up)	$6,155,063	23,556,940	0.0261	Non-residential customers that opted in and participated in an EE program during Vintage Year 3 (2012) or, if they did not participate, do not opt out of Vintage Year 2016 EE

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DUKE ENERGY CAROLINAS, LLC
Docket No. E-7, Sub 1073
RIDER 7 DSM/EE BILLING FACTORS PROPOSED BY COMPANY

Description	Revenue Requirement	Applicable Rate Period MWH Sales	Billing Factor (cents per kWh)	Applicable Customers
Non-Residential Vintage Year 3 DSM Participant (True-Up)	$(402,296)	23,100,221	(0.0017)	Non-residential customers that opted in and participated in a DSM program during Vintage Year 3 (2012) or, if they did not participate, do not opt out of Vintage Year 2016 DSM
Non-Residential Vintage Year 2 EE Participant (True-Up)	$3,442,055	23,295,755	0.0148	Non-residential customers that opted in and participated in an EE program during Vintage Year 2 (2011) or, if they did not participate, do not opt out of Vintage Year 2016 EE
Non-Residential Vintage Year 2 DSM Participant (True-Up)	$428,535	22,950,231	0.0019	Non-residential customers that opted in and participated in a DSM program during Vintage Year 2 (2011) or, if they did not participate, do not opt out of Vintage Year 2016 DSM
Non-Residential Vintage Year 1 EE Participant (True-Up)	$613,874	22,972,365	0.0027	Non-residential customers that opted in and participated in an EE program during Vintage Year 1 (2009-2010) or, if they did not participate, do not opt out of Vintage Year 2016 EE

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DUKE ENERGY CAROLINAS, LLC
Docket No. E-7, Sub 1073
RIDER 7 DSM/EE BILLING FACTORS PROPOSED BY COMPANY

Description	Revenue Requirement	Applicable Rate Period MWH Sales	Billing Factor (cents per kWh)	Applicable Customers
Non-Residential Vintage Year 1 DSM Participant (True-Up)	$388,582	22,484,503	0.0017	Non-residential customers that opted in and participated in a DSM program during Vintage Year 1 (2009-2010) or, if they did not participate, do not opt out of Vintage Year 2016 DSM

I/A

DUKE ENERGY CAROLINAS

Request:

On page 26 of her testimony, Witness Barnes states, "[f]ollowing his presentation, the Collaborative discussed the belief of some stakeholders that a dedicated pilot program would cause more awareness among potential CHP customers, since there have been no application filed for CHP under the Custom Program to date." Please provide information as to whether potential CHP customers have requested assistance from Duke Energy Carolinas ("DEC") outside of the Custom Program. If so, please provide detail to how DEC handles these potential CHP customers and their requests.

Response:

To date, Duke Energy Carolinas has not received any requests for information from any of its customers interested in pursuing CHP as an energy efficiency program within its existing Non-Residential Custom Program or through any alternative prescriptive incentive approach.

I/A

DUKE ENERGY CAROLINAS

Request:

Please explain what impact, if any, Duke Energy Carolinas ("DEC") has observed from the addition of an opt-in period for DSM/EE programs in early March. Have any customers opted-in to DEC's DSM/EE programs during the March period, and if so, how many? NCSEA understands this additional opt-in period was added in response to customer feedback indicating that an additional opt-in period might better align with the timing of customer decision making, and thus might lead to an increase in the number of customers opting-in to DEC's DSM/EE programs.

Response:

Duke Energy Carolinas' addition of an opt-in period in March has proven to be effective approach to increase opt-out eligible customer participation in the Company's EE and DSM programs. During the 2015 annual March opt-in period, 53 customer accounts that were previously opted out elected to opt in.