

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)

DIRECT TESTIMONY OF
CONITSHA B. BARNES
FOR
DUKE ENERGY CAROLINAS, LLC

I. INTRODUCTION AND PURPOSE

1 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 A. My name is Conitsha B. Barnes. My business address is 550 South Tryon
3 Street, Charlotte, North Carolina 28202.

4 **Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT CAPACITY?**

5 A. I am employed by Duke Energy Carolinas, LLC (“Duke Energy Carolinas,”
6 “DEC,” or the “Company”) as a Strategy and Collaboration Manager –
7 Carolinas in the Company’s Market Solutions Regulatory Strategy and
8 Evaluation group.

9 **Q. PLEASE SUMMARIZE YOUR EDUCATION AND PROFESSIONAL**
10 **QUALIFICATIONS.**

11 A. I graduated from North Carolina State University with a Bachelor of Arts in
12 Political Science. I started my career with Duke Energy Carolinas in 1998.
13 From 1998 to 2008, I worked in the call center organization in a variety of
14 roles including customer service specialist, alternate shift supervisor and
15 business analyst. In 2008, I joined the Marketing Department, where I
16 managed the portfolio of energy efficiency income-qualified low income
17 programs offered in North Carolina, South Carolina, Ohio, Kentucky and
18 Indiana. I joined the Market Solutions Regulatory Strategy and Evaluation
19 group in 2010 as a Strategy and Collaboration Manager - Carolinas.

20 **Q. PLEASE DESCRIBE YOUR DUTIES AS STRATEGY AND**
21 **COLLABORATION MANAGER.**

1 A. I am responsible for the analysis and support of DEC's Energy Efficiency
2 ("EE") and Demand-Side Management ("DSM") programs.

3 **Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS**
4 **COMMISSION?**

5 A. No, I have not testified before this Commission.

6 **Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY IN THIS**
7 **PROCEEDING?**

8 A. My testimony supports DEC's Application for approval of its DSM/EE Cost
9 Recovery Rider, Rider EE, for 2016 ("Rider 7"), which encompasses
10 components relating to both the Company's save-a-watt pilot approved in
11 Docket No. E-7, Sub 831, as well as the new cost recovery mechanism and
12 portfolio of programs approved in the Commission's *Order Approving*
13 *DSM/EE Programs and Stipulation of Settlement* issued October 29, 2013 in
14 Docket No. E-7, Sub 1032 ("Sub 1032 Order"). My testimony provides (1) an
15 overview of the Commission's Rule R8-69 filing requirements; (2) a synopsis
16 of the EE and DSM programs included in this filing; (3) discussion of our
17 results to date; (4) an explanation of how these results have affected the Rider
18 7 calculations; (5) an overview of cost recovery under the new mechanism;
19 and (6) any updates the Company has made since the Commission's Sub 1032
20 Order, as well as its October 29, 2014 Order approving DEC's Rider EE for
21 2015 in Docket No. E-7, Sub 1050.

1 **Q. PLEASE DESCRIBE THE EXHIBITS ATTACHED TO YOUR**
2 **TESTIMONY.**

3 A. Barnes Exhibit 1 supplies, for each program, load impacts and avoided cost
4 revenue requirements by vintage. Barnes Exhibit 2 contains a summary of net
5 lost revenues for the period June 1, 2009 to December 31, 2016. Barnes
6 Exhibit 3 contains the actual program costs for North Carolina for June 1,
7 2009 through December 31, 2014 and estimated costs for the DEC system for
8 the twelve months ending December 31, 2016. Barnes Exhibit 4 contains the
9 found revenues used in the net lost revenues calculations. Barnes Exhibit 5
10 supplies evaluations of event-based programs. Barnes Exhibit 6 contains a
11 discussion of the findings and results of DEC's programs and a comparison of
12 impact estimates from the previous year. Barnes Exhibit 7 contains the
13 modified projected program and portfolio cost-effectiveness results for the
14 portfolio of programs approved in the Sub 1032 Order. Barnes Exhibit 8
15 contains a summary of program performance and an explanation of the
16 variances between the expected program results and the actual results. It is
17 designed to create more transparency with regard to the factors that have
18 driven these variances. Barnes Exhibit 9 is a list of DEC's industrial and large
19 commercial customers that have opted out of participation in its DSM or EE
20 programs and a listing of those customers that have elected to participate in
21 new measures after having initially notified the Company that they declined to
22 participate, as required by Commission Rule R8-69(d)(2). Barnes Exhibit 10

1 contains the detailed calculations underlying DEC's achievement level under
 2 the save-a-watt earnings cap. Barnes Exhibit 11 contains the projected shared
 3 savings incentive associated with Vintage 2016.

4 **Q. WERE BARNES EXHIBITS 1-11 PREPARED BY YOU OR AT YOUR**
 5 **DIRECTION AND SUPERVISION?**

6 A. Yes, they were.

7 **II. RULE R8-69 FILING REQUIREMENTS**

8 **Q. WHAT INFORMATION DOES DEC PROVIDE IN RESPONSE TO**
 9 **THE COMMISSION'S FILING REQUIREMENTS?**

10 A. The information for Rider 7 is provided in response to the Commission's
 11 filing requirements contained in R8-69(f)(1) and can be found in the
 12 testimony and exhibits of Company witnesses Barnes, Ham and Miller as
 13 follows:

R8-69(f)(1)		Items	Location in Testimony
(i)		Projected NC retail sales for the rate period	Miller Exhibit 6
(ii)		For each measure for which cost recovery is requested through Rider 7:	
(ii)	a.	Total expenses expected to be incurred during the rate period	Barnes Exhibit 1
(ii)	b.	Total costs savings directly attributable to measures	Barnes Exhibit 1
(ii)	c.	Evaluation, Measurement, and Verification activities for the rate period	Ham Exhibit 1
(ii)	d.	Expected summer and winter peak demand reductions	Barnes Exhibit 1
(ii)	e.	Expected energy reductions	Barnes Exhibit 1
(iii)		Filing requirements for DSM/EE EMF rider, including:	
(iii)	a.	Total expenses for the test period in the aggregate and broken down by type of expenditure, unit, and jurisdiction	Barnes Exhibit 3

(iii)	b.	Total avoided costs for the test period in the aggregate and broken down by type of expenditure, unit, and jurisdiction	Barnes Exhibit 1
(iii)	c.	Description of results from EM&V activities	Testimony of Roshena Ham and Ham Exhibits A-I
(iii)	d.	Total summer and winter peak demand reductions in the aggregate and broken down per program	Barnes Exhibit 1
(iii)	e.	Total energy reduction in the aggregate and broken down per program	Barnes Exhibit 1
(iii)	f.	Discussion of findings and results of programs	Testimony of Conitsha Barnes and Barnes Exhibit 6
(iii)	g.	Evaluations of event-based programs	Barnes Exhibit 5
(iii)	h.	Comparison of impact estimates from previous year and explanation of significant differences	Testimony of Conitsha Barnes and Barnes Exhibits 6 and 8
(iv)		Determination of utility incentives	Testimony of Conitsha Barnes & Barnes Exhibits 10 and 11
(v)		Actual revenues from DSM/EE and DSM/EE EMF riders	Miller Exhibit 3
(vi)		Proposed Rider 7	Testimony of Carolyn Miller & Miller Exhibit 1
(vii)		Projected NC sales for customers opting out of measures	Miller Exhibit 6
(viii)		Supporting work papers	CD accompanying filing

1 III. PORTFOLIO OVERVIEW

2 Q. WHAT ARE DEC'S CURRENT EE AND DSM PROGRAMS?

3 A. The Company has two interruptible programs for non-residential customers,
4 Interruptible Service ("IS") and Standby Generation ("SG") that are accounted
5 for outside of the cost recovery mechanism approved by the Commission in
6 the Sub 1032 Order. Aside from IS and SG, the following DSM and EE
7 programs have been implemented by DEC in its North Carolina service
8 territory:

9 RESIDENTIAL CUSTOMER PROGRAMS

- 1 • Appliance Recycling Program
- 2 • Energy Assessments Program
- 3 • Energy Efficiency Education Program
- 4 • Energy Efficient Appliances and Devices
- 5 • HVAC Energy Efficiency Program
- 6 • Multi-Family Energy Efficiency Program
- 7 • My Home Energy Report
- 8 • Income-Qualified Energy Efficiency and Weatherization Program
- 9 • Power Manager

10 **NON-RESIDENTIAL CUSTOMER PROGRAMS**

- 11 • Non-Residential Smart \$aver® Energy Efficient Food Service
- 12 Products Program
- 13 • Non-Residential Smart \$aver® Energy Efficient HVAC Products
- 14 Program
- 15 • Non-Residential Smart \$aver® Energy Efficient IT Products Program
- 16 • Non-Residential Smart \$aver® Energy Efficient Lighting Products
- 17 Program
- 18 • Non-Residential Smart \$aver® Energy Efficient Process Equipment
- 19 Products Program
- 20 • Non-Residential Smart \$aver® Energy Efficient Pumps and Drives
- 21 Products Program
- 22 • Non-Residential Smart \$aver® Custom Program

- 1 • Non-Residential Smart Saver® Custom Energy Assessments Program
- 2 • PowerShare®
- 3 • PowerShare® CallOption
- 4 • Energy Management and Information Services Pilot Program¹
- 5 • Small Business Energy Saver (Approved on August 13, 2014 in
- 6 Docket No. E-7, Sub 1055)
- 7 • Smart Energy in Offices (Approved on August 13, 2014 in Docket No.
- 8 E-7, Sub 961)

9 **Q. ARE THESE SUBSTANTIVELY THE SAME PROGRAMS DEC**
10 **RECEIVED APPROVAL FOR IN DOCKET NO. E-7, SUB 1032?**

11 A. Yes. The programs contained in the current portfolio are the same as those
12 approved by the Commission in the Sub 1032 Order, with the exception of the
13 additions of the Smart Energy in Offices (“SEO”) and Small Business Energy
14 Saver (“SBES”) programs and discontinuation of the Energy Management and
15 Information Services (“EMIS”) Pilot Program.

16 **Q. PLEASE DESCRIBE ANY UPDATES MADE TO THE UNDERLYING**
17 **ASSUMPTIONS FOR DEC’S PORTFOLIO OF PROGRAMS THAT**
18 **HAVE ALTERED PROJECTIONS FOR VINTAGE 2016.**

19 A. Duke Energy Carolinas made several updates to the underlying assumptions
20 for the program portfolio for Vintage 2016 compared to what was filed and

¹ The North Carolina Utilities Commission issued an Order on November 26, 2014 in Docket No. E-7, Sub 1032 approving DEC’s request to discontinue the Energy Management and Information Services Pilot Program.

1 approved in Docket No. E-7, Sub 1032. First, consistent with the notice that
2 the Company filed with the Commission on December 18, 2013 in Docket No.
3 E-7, Sub 1032, DEC, after reaching agreement with the Public Staff, updated
4 the avoided capacity rates to reflect the rates contained in the Stipulation of
5 Settlement among DEC, Duke Energy Progress, Inc. and the Public Staff filed
6 October 29, 2013 in Docket No. E-100, Sub 136. Second, in accordance with
7 the Agreement and Stipulation of Settlement (“Stipulation”) that DEC reached
8 with the Public Staff, the North Carolina Sustainable Energy Association
9 (“NCSEA”), the Southern Alliance for Clean Energy (“SACE”),
10 Environmental Defense Fund (“EDF”), Natural Resources Defense Council
11 (“NRDC”), the South Carolina Coastal Conservation League, and the Sierra
12 Club, and which was filed with the Commission on August 19, 2013 (the
13 “Stipulation”) and approved in the Sub 1032 Order, DEC updated the avoided
14 transmission and distribution (“T&D”) rates. These two updates affect the
15 avoided cost benefits associated with each of the programs and, consequently,
16 the cost-effectiveness of the entire portfolio and DEC’s projected shared
17 savings incentive.

18 The third update reflects restating the estimated program participation
19 and cost for the rate period of January 1, 2016 to December 31, 2016 based on
20 market conditions and program performance experienced in Vintage 2014.

21 The fourth update reflects the additions of the costs and impacts
22 associated with the SBES and SEO programs to the portfolio, as well as the

1 removal of costs and impacts associated with the discontinued EMIS Pilot
2 Program.

3 The final update reflects the application of Evaluation, Measurement,
4 and Verification (“EM&V”) results and updating of the savings impacts for
5 those programs for which DEC received EM&V results after it filed its
6 application in Docket No. E-7, Sub 1050. Updating programs for EM&V
7 results will change the projected avoided cost benefits associated with the
8 projected participation and hence will impact the calculation of the specific
9 program and overall portfolio cost-effectiveness, as well as impact the
10 calculation of DEC’s projected shared savings incentive.

11 **Q. AFTER FACTORING THESE UPDATES INTO THE VINTAGE 2016**
12 **PORTFOLIO, DO THE RESULTS OF DEC’S PROSPECTIVE COST-**
13 **EFFECTIVENESS TESTS INDICATE THAT IT SHOULD**
14 **DISCONTINUE OR MODIFY ANY OF ITS PROGRAMS?**

15 A. In accordance with the Stipulation, DEC performed the prospective analysis
16 of each of its programs and the aggregate portfolio for the Vintage 2016
17 period. As discussed above, this analysis factored in the impact of updating
18 the program cost, participation, avoided energy capacity rates and T&D rates
19 and the impacts of programs for which DEC received updated EM&V. The
20 projected cost-effectiveness from this analysis for each program and the entire
21 portfolio for Vintage 2016 is contained in Barnes Exhibit 7. This exhibit
22 shows that, with the exception of the Income-Qualified EE Products and

1 Services Program, which was not cost-effective prior to the updates, and the
2 HVAC EE Program, all of the programs and the aggregate portfolio continue
3 to project cost-effectiveness. Since the HVAC EE Program provides
4 efficiency opportunities for such a large component of overall residential
5 usage, and because the program is on the border of being cost effective, DEC
6 does not plan to discontinue the program. Instead, DEC is currently
7 evaluating opportunities to modify the HVAC EE Program in order to
8 enhance the program and return it to being a cost-effective program.

9 **Q. DID DEC MAKE ANY MODIFICATIONS TO ITS PORTFOLIO OF**
10 **PROGRAMS DURING VINTAGE 2014?**

11 A. Yes. The Company increased the customer incentive from \$30 to \$50 per
12 recycled appliance for the Appliance Recycling Program.² In addition, DEC
13 expanded the number of participants who were offered the My Home Energy
14 Report³ and added an electronic/interactive report allowing participants to
15 receive reports in an electronic/interactive format that should lead to greater
16 energy savings. The modifications were made in compliance with the
17 Flexibility Guidelines approved by the Commission in the Sub 1032 Order.

18 **IV. EE AND DSM PROGRAM RESULTS TO DATE**

² The Company filed notification of the program change for the Appliance Recycling Program July 25, 2014 in Docket No. E-7, Sub 1032.

³ The Company filed notification of the program changes for the My Home Energy Report Program on November 7, 2014 in Docket No. E-7, Sub 1032.

1 **Q. HOW MUCH ENERGY, CAPACITY AND AVOIDED COST SAVINGS**
2 **DID DEC DELIVER AS A RESULT OF ITS EE AND DSM**
3 **PROGRAMS DURING VINTAGE 2014?**

4 A. During Vintage 2014, DEC's EE and DSM programs delivered over 546
5 million kilowatt hours ("kWh") of energy savings and nearly 880 megawatts
6 ("MW") of capacity savings, which produced net present value of avoided
7 cost savings of \$324 million.

8 **Q. HOW MUCH ENERGY, CAPACITY AND AVOIDED COST SAVINGS**
9 **HAS DEC DELIVERED AS A RESULT OF THESE PROGRAMS**
10 **DURING THE SAVE-A-WATT PILOT?**

11 A. Since receiving approval for the save-a-watt pilot, DEC, through its EE and
12 DSM programs, has generated over 2,030 gigawatt hours ("GWh") of energy
13 reductions and over 980 MW of capacity reductions. These programs have
14 also generated nearly \$925 million in nominal avoided cost benefits for
15 DEC's customers.

16 **Q. HOW DO THESE RESULTS COMPARE WITH THE**
17 **PERFORMANCE TARGETS IN DOCKET NO. E-7, SUB 831?**

18 A. As shown in Barnes Exhibit 10, during the four-year term of the modified
19 save-a-watt pilot, the actual nominal avoided cost benefits generated by these
20 programs are nearly 123 percent of the target to achieve shown in Exhibit B to
21 the Agreement and Joint Stipulation of Settlement between DEC, the Public
22 Staff, SACE, EDF, NRDC, and the Southern Environmental Law Center filed

1 June 12, 2009 in Docket No. E-7, Sub 831 (“Save-a-Watt Settlement”).
2 Similarly, capacity impacts are over 115 percent of the target over the four-
3 year term of the save-a-watt pilot, and energy impacts are over 135 percent of
4 the cumulative target. Notably, this achievement is as compared to the
5 original targets and does not reflect the impact of opt-outs on the number of
6 eligible participants as contemplated in the Save-a-Watt Settlement. In other
7 words, DEC exceeded the targets without adjustment. Given DEC’s
8 achievement beyond the avoided cost targets for its save-a-watt pilot, the
9 Company is entitled to the highest earning cap allowed under the Save-a-Watt
10 Settlement. Essentially, due to the outstanding results delivered during the
11 four-year term of the save-a-watt pilot, DEC is allowed to earn the lesser of
12 the permitted avoided cost revenues or 15 percent of the program costs on an
13 after-tax basis. After comparing the allowed avoided cost revenue calculation
14 to the 15 percent earnings cap on program cost, DEC determined that it is
15 appropriate to apply the 15 percent after-tax earnings cap, which is reflected
16 in the calculation of the final save-a-watt true-up component of Rider 7.

17 **Q. DID ANY PROGRAMS SIGNIFICANTLY OUT-PERFORM**
18 **RELATIVE TO THEIR ORIGINAL ESTIMATES FOR VINTAGE**
19 **2014)?**

20 **A.** Yes. During Vintage 2014, DEC’s portfolio of programs was able to deliver
21 energy and capacity savings that yielded avoided costs that were almost 119
22 percent of the target, and it did so while only expending 89 percent of targeted

1 program cost. While DEC's the Company's entire portfolio of programs
2 performed well, programs in the portfolio that feature lighting measures
3 continued to contribute the largest portion of the impacts. In the residential
4 market, the energy efficient lighting component of the Energy Efficient
5 Appliances and Devices Program, the EE Education Program, and the Energy
6 Assessment Program achieved elevated participation with customers adopting
7 measures at much higher rates than originally anticipated. As a result of this
8 higher participation, the savings impacts for the three programs, compared to
9 those originally filed for Vintage 2014, exceeded the projections by 605
10 percent, 136 percent and 312 percent, respectively. In Vintage 2014, the
11 energy savings associated with the Non-Residential Smart \$aver EE Lighting
12 Products program achieved 129 percent of the as-filed impacts.

13 **Q. HAVE ANY PROGRAMS SIGNIFICANTLY UNDERPERFORMED**
14 **RELATIVE TO THEIR ORIGINAL ESTIMATES IN VINTAGE 2014?**

15 A. Yes. The Income-Qualified EE and Weatherization Program underperformed
16 during Vintage 2014, in large part due to the continuing inability to implement
17 the Weatherization and Equipment Replacement component of the program.
18 Since the exhaustion of the North Carolina and South Carolina State Energy
19 Offices' ARRA funds in late 2012, DEC had been working with the State
20 Energy Offices to reestablish a plan for them to partner and administer the
21 program as a component of the new portfolio filing. In 2014, the State Energy
22 Offices requested to be removed from consideration in providing

1 weatherization services as the program administrator. The Company has since
2 identified a program administrator for the Weatherization and Equipment
3 Replacement measures through a Request for Proposal (“RFP”). The program
4 administrator signed a contract with DEC in fourth quarter of 2014 and plans
5 to launch the program in March 2015.

6 Another program that underperformed during Vintage 2014 was the
7 Appliance Recycling Program. The program has struggled to hit its targeted
8 achievement and only delivered 30 percent of the anticipated savings. This
9 underperformance was driven by both lower customer participation (58
10 percent of target) and an erosion of the savings impact recognized per
11 participant that occurred due to application of EM&V results. The details
12 associated with the change in impacts that resulted from the replacement of
13 the initial impact estimates with the EM&V results, are shown in Ham Exhibit
14 C. In an attempt to address the lower than anticipated participation in early
15 2014, DEC filed notification to increase the participant incentive from \$30 to
16 \$50 effective May 1, 2014. This modification appears to have been effective,
17 as the program observed more than a 200 percent increase in participation
18 after the increased participant incentive was implemented.

19 **V. RIDER IMPACTS**

20 **Q. HAVE THE PARTICIPATION RESULTS AFFECTED THE VINTAGE**
21 **2014 EXPERIENCE MODIFICATION FACTOR?**

1 A. Yes. The Experience Modification Factor (“EMF”) in Rider 7 accounts for
2 changes to actual participation relative to the forecasted participation levels
3 utilized in DEC’s Vintage 2014 Rider EE. As DEC receives actual
4 participation information, it is then able to update participation-driven actual
5 avoided cost benefits and the net lost revenues derived from its EE and DSM
6 programs. For example, as mentioned above, the Appliance Recycling
7 Program and Income-Qualified EE and Weatherization Program
8 underperformed relative to their original participation targets. As a result, the
9 EMF will be reduced to reflect the lower costs, net lost revenues and shared
10 savings incentive associated with these programs. On the other hand, higher-
11 than-expected participation in the Energy Assessments, Non-Residential
12 Smart \$aver EE Lighting Products, and EE Education programs, as well as the
13 additions of the SEO and SBES programs, cause the EMF to reflect higher
14 program costs, net lost revenues, and shared savings incentive.

15 **Q. HOW ARE THE RESULTS OF EVALUATION, MEASUREMENT**
16 **AND VERIFICATION APPLIED TO DEC’S EE PROGRAMS?**

17 A. As further explained in Company witness Ham’s testimony, EM&V is a
18 comprehensive assessment and data collection methodology that DEC utilizes
19 to determine the achieved load reductions, actual free ridership, and the
20 effectiveness of program design for each measure or program. Pursuant to the
21 Stipulation, and consistent with the agreement reached by DEC, SACE, and
22 the Public Staff and approved by the Commission in its *Order Approving*

1 *DSM/EE Rider and Requiring Filing of Proposed Customer Notice* issued on
2 November 8, 2011 in Docket No. E-7, Sub 979 (“EM&V Agreement”), for all
3 EE programs, with the exception of Non-Residential Smart \$aver Custom
4 Rebate Program and Low Income Energy Efficiency and Weatherization
5 Assistance Program, DEC applies EM&V results retrospectively to the
6 beginning of the program offering. For the purposes of the vintage true-ups,
7 these initial EM&V results will be considered actual results for a program
8 until the next EM&V results are received. The new EM&V results will then
9 be considered actual results going forward and applied prospectively for the
10 purposes of truing up vintages from the first day of the month immediately
11 following the month in which the study participation sample for the EM&V
12 was completed. This EM&V will then continue to apply and be considered
13 actual results until it is superseded by new EM&V results, if any.

14 For all new programs and pilots, DEC will follow a consistent
15 methodology. In other words, initial estimates of impacts will be used until
16 DEC has valid EM&V results, which will then be applied back retrospectively
17 to the beginning of the offering and will be considered actual results until a
18 second EM&V is performed.

19 **Q. HOW WILL EM&V BE INCORPORATED INTO THE VINTAGE 2014**
20 **TRUE-UP COMPONENT OF RIDER 7?**

21 A. All of the final EM&V results that have been received by DEC as of
22 December 31, 2014 have been applied prospectively from the first day of the

1 month immediately following the month in which the study participation
2 sample for the EM&V was completed in accordance with the EM&V
3 Agreement. Accordingly, for any program for which DEC has received
4 EM&V results, the per participant impact applied to the projected program
5 participation in Vintage 2014 is based upon the actual EM&V results that
6 have been received.

7 **Q. PLEASE DESCRIBE HOW DEC CALCULATED FOUND REVENUES.**

8 A. Consistent with the Stipulation and with the “Decision Tree” found in
9 Appendix A of the Commission’s February 8, 2011 order in Docket No. E-7,
10 Sub 831, and approved for the new portfolio in the Sub 1032 Order, possible
11 found revenue activities were identified, categorized, and netted against the
12 net lost revenues created by DEC’s EE programs. Found revenues may result
13 from activities that directly or indirectly result in an increase in customer
14 demand or energy consumption within DEC’s service territory. Load-building
15 activities such as these, however, would not be considered found revenues *per*
16 *se* if they (1) would have occurred regardless of DEC’s activity, (2) were a
17 result of a Commission-approved economic development activity not
18 determined to produce found revenues, or (3) were part of an unsolicited
19 request for DEC to engage in an activity that supports efforts to grow the
20 economy. On the other hand, found revenues would occur for load growth
21 that did not fall into the previous categories but was directly or indirectly a
22 result of DEC’s activities. Based on the results of this work, all potential

1 found revenue-related activities are identified and categorized in Barnes
2 Exhibit 3. Additionally, as discussed in the testimony of Company witness
3 Timothy J. Duff in Docket E-7, Sub 1050, DEC also proposes to adjust
4 calculation of found revenues to account for the impacts of activities outside
5 of its EE programs that it undertakes that reduce customer consumption – i.e.,
6 “negative found revenues.”

7 **Q. PLEASE DISCUSS THE ADJUSTMENT THAT DEC PROPOSES TO**
8 **MAKE TO ITS FOUND REVENUE CALCULATION TO ACCOUNT**
9 **FOR THE ACTIVITIES IT HAS TAKEN OUTSIDE OF ITS EE**
10 **PROGRAMS THAT REDUCE CONSUMPTION.**

11 A. In his direct testimony in Docket No, E-7, Sub 1050, Company witness Duff
12 discussed that DEC was planning to aggressively pursue with its outdoor
13 lighting customers the replacement of aging Mercury Vapor lights with Light
14 Emitting Diode (“LED”) fixtures. By moving customers past the standard
15 High Pressure Sodium (“HPS”) fixture to an LED fixture in this replacement
16 process, DEC is generating significant energy savings. These energy savings,
17 since they come outside of DEC’s EE programs, are not captured in DEC’s
18 calculation of lost revenues. Since one of the activities that DEC includes in
19 the calculation of found revenues is the increase in consumption from new
20 outdoor lighting fixtures added by DEC, it is logical and symmetrical to count
21 the energy consumption reduction realized in outdoor lighting efficiency
22 upgrades. The Company does not take credit for the entire efficiency gain

1 from replacing Mercury Vapor lights, but rather only the efficiency gain from
2 replacing HPS with LED fixtures. It is also important to note that DEC has
3 not recognized any negative found revenues in excess of the found revenues
4 calculated; in other words, the net found revenues number will never be
5 negative and have the effect of increasing net lost revenue calculations. The
6 Company does not believe the Public Staff is opposed to DEC's proposal,
7 based on Public Staff Witness Maness's Affidavit filed in Docket No. E-7,
8 Sub 1050, which states: "In general, the Public Staff acknowledges that there
9 may be cases in which it may be appropriate, for purposes of determining the
10 DSM/EE Rider, to offset positive found revenues with negative ones.
11 However, should the Company propose such an offset; the underlying
12 circumstances and impacts on the utility will need to be evaluated very
13 carefully, on a case-by-case basis."

14 **Q. HAS THE OPT-OUT OF NON-RESIDENTIAL CUSTOMERS**
15 **AFFECTED THE RESULTS FROM THE PORTFOLIO OF**
16 **APPROVED PROGRAMS?**

17 A. Yes, the opt-out of qualifying non-residential customers has had a negative
18 effect on DEC's overall non-residential impacts. For Vintage 2014, DEC had
19 1,782 eligible customer accounts opt out of participating in DEC's non-
20 residential portfolio of EE programs. Although this represents slightly more
21 than 15 percent of eligible customer accounts, these same customer accounts
22 represent nearly 49 percent of the load for all eligible customers. Essentially,

1 this means that DEC could only deliver the efficiency benefits associated with
2 its non-residential programs to customers who comprise approximately 70
3 percent of its total non-residential customer load.

4 **Q. PLEASE DESCRIBE THE ACTIVITIES UNDERTAKEN BY DEC TO**
5 **ENCOURAGE NON-RESIDENTIAL CUSTOMERS TO OPT INTO ITS**
6 **PROGRAMS GOING FORWARD.**

7 A. In addition to the structural enhancements that were incorporated into DEC's
8 portfolio approved in the Sub 1032 Order, DEC continues to enhance its non-
9 residential portfolio through both program additions and program
10 enhancements to make opting into the Rider more attractive to customers. In
11 2014, DEC successfully commercialized its Smart Energy Now Program and
12 made it available across its entire service territory through the SEO program.
13 In 2014, DEC also worked to develop a midstream channel for its Non-
14 residential Prescriptive Program to provide customers with yet another way to
15 take advantage of the program by working directly with distributors. The
16 Company also worked on developing a streamlined approach to the Non-
17 residential Custom Program application process in order to remove some of
18 the traditional barriers to participation. The Company plans to bring this
19 approach to market in 2015.

20 **VI. THE VINTAGE 2016 COMPONENT OF RIDER 7**

1 **Q. WHAT IS THE PRIMARY DIFFERENCE BETWEEN THE VINTAGE**
2 **2016 COMPONENT OF DEC’S PROPOSED RIDER 7 AND THE**
3 **SAVE-A-WATT TRUE-UP PORTION OF THE PROPOSED RIDER 7?**

4 A. The primary difference is that the revenue requirement calculation for the
5 Vintage 2016 component of the Rider 7 filing applies the shared savings
6 recovery mechanism approved in the Sub 1032 Order.

7 **Q. PLEASE PROVIDE AN OVERVIEW OF THE SHARED SAVINGS**
8 **RECOVERY MECHANISM APPROVED IN DOCKET NO. E-7, SUB**
9 **1032.**

10 A. Pursuant to the Stipulation, DEC’s cost recovery mechanism allows it to (1)
11 recover the reasonable and prudent costs incurred for adopting and
12 implementing DSM and EE measures in accordance with N.C. Gen. Stat. §62-
13 133.9 and Commission Rules R8-68 and R8-69; (2) recover net lost revenues
14 incurred for up to 36 months of a measure’s life for EE programs; and (3) earn
15 a Portfolio Performance Incentive (“PPI”) based upon the sharing of 11.5% of
16 the net savings achieved through DEC’s EE and DSM programs on an annual
17 basis.

18 **Q. PLEASE EXPLAIN HOW DEC DETERMINES THE PPI.**

19 A. First, DEC determines the net savings eligible for incentive by subtracting the
20 present value of the annual lifetime EE and DSM program costs (excluding
21 approved low-income programs as described below) from the net present
22 value of the annual lifetime avoided costs achieved through the Company’s

1 programs (again, excluding approved low-income programs). The Company
2 then multiplies the net savings eligible for incentive by the 11.5% shared
3 savings percentage to determine its pretax incentive.

4 **Q. PLEASE EXPLAIN IF DEC EXCLUDES ANY PROGRAMS FROM**
5 **THE DETERMINATION OF ITS PPI CALCULATION.**

6 A. Consistent with the Stipulation, DEC has excluded the impacts and costs
7 associated with the Income-Qualified EE and Weatherization Program from
8 its calculation of the PPI. At the time the program was approved, it was not
9 cost-effective, but was approved based on its societal benefit. As such,
10 although DEC is eligible to recover the program costs and 36 months of the
11 net lost revenues associated with the impacts of the program, it does not earn
12 an incentive, and the negative net savings associated with these types of
13 programs is not factored into the calculation of the annual shared savings PPI.

14 **Q. PLEASE EXPLAIN HOW PROGRAMS THAT ARE DETERMINED**
15 **NOT TO BE COST-EFFECTIVE, BUT ARE OFFERED BY THE**
16 **COMPANY ARE TREATED.**

17 A. Duke Energy Carolinas recognizes that there are certain EE programs that
18 may not be cost-effective at an annual view, but are nevertheless offered as
19 DEC evaluates opportunities to redesign the program to restore the program
20 offerings to cost-effectiveness. As discussed previously, the residential
21 HVAC EE Program is not cost-effective for Vintage 2016, but DEC continues
22 to offer it. For this program, because it was approved as a cost effective

1 program offering, DEC is eligible to recover the program costs and 36 months
 2 of the net lost revenues associated with the impacts of the program, but has
 3 factored in the negative net savings into the calculation of the projected annual
 4 shared savings PPI.

5 **VII. PROJECTED RESULTS**

6 **Q. PLEASE PROVIDE A PROJECTION OF THE RESULTS THAT DEC**
 7 **EXPECTS TO SEE FROM IMPLEMENTATION OF THE NEW**
 8 **PORTFOLIO.**

9 A. Consistent with its practices during the save-a-watt pilot, DEC will update the
 10 actual and projected EE achievement levels in its annual Rider EE filing to
 11 account for any program or measure additions based on the performance of
 12 programs, market conditions, economics and consumer demand. The actual
 13 results for Vintage 2014 and projection of the results for the next three years
 14 as well as the associated projected program expense for DEC's portfolio of
 15 programs are summarized in Table 2 below:

16 **Table 2.**

Duke Energy Carolinas System (NC & SC) EE/DSM Portfolio 2014 Actual Results and 2015-2017 Projected Results				
	2014	2015	2016	2017
Annual System MW	880	970	1,047	1,049
Annual System Net MWh	545,986	413,574	591,015	434,467
Annual Program Costs (Millions)	\$90	\$105	\$124	\$111

1 These projections are very similar to those provided by DEC and approved by
2 the Commission in Docket No. E-7, Sub 1032. The projected impacts and
3 cost for Vintage 2016 are different as a result of updated participation
4 estimates as well as the EM&V results that have been applied to the following
5 programs: My Home Energy Report, Appliance Recycling, the Residential
6 Neighborhood Component of the Income-Qualified EE and Weatherization
7 Program, the Specialty Bulb Measures included in the Energy Efficient
8 Appliances and Devices Program, the Tune and Seal elements of the HVAC
9 EE Program, Power Manager and PowerShare. In addition, the Vintage 2016
10 projected impacts and costs reflect projected participation in SEO and SBES,
11 the two new programs approved during Vintage 2014.

12 **VIII. COLLABORATIVE DISCUSSIONS AND**
13 **COMPANY COMMITMENTS**

14 **Q. PLEASE PROVIDE AN UPDATE OF THE STATUS OF THE**
15 **COLLABORATIVE'S DISCUSSION OF COMBINED HEAT AND**
16 **POWER ("CHP").**

17 **A.** When DEC conducted its first quarter Collaborative meeting on February 26,
18 2015, one of the agenda items discussed was the potential to supplement its
19 current capability to incentivize CHP through its Non-Residential Custom
20 Program with a new dedicated CHP Program Pilot. During the meeting Isaac
21 Panzarella of North Carolina State University presented information regarding
22 other states' CHP programs, as well as his work related to estimating the

1 potential for CHP in North Carolina. Following his presentation, the
2 Collaborative discussed the belief of some stakeholders that a dedicated pilot
3 program would cause more awareness among potential CHP customers, since
4 there have been no application filed for CHP under the Custom Program to
5 date. As a result of the meeting, the Company agreed to work to establish a
6 CHP Working Group (“CWG”) consisting of technical experts, legal support
7 and other interested stakeholders and to conduct the first CWG meeting no
8 later than March 31, 2015. In this meeting, the CWG will discuss and
9 evaluate potential constructs for a CHP Pilot Program, which could then be
10 modeled by the Company to determine cost-effectiveness and feasibility. In
11 the event that a CHP Pilot Program is not developed and filed with the
12 Commission prior to DEC’s next EE/DSM annual filing, DEC will report the
13 outcome of the CWG meetings in its 2016 filing.

14 **Q. HAS DEC IMPLEMENTED THE NORTH CAROLINA INCOME-**
15 **QUALIFIED EE WEATHERIZATION PROGRAM?**

16 A. As discussed earlier, due to the unfortunate withdrawal of the State Energy
17 Office from discussions to establish it as the Program administrator, DEC was
18 forced to select another program administrator for the program, which has
19 delayed program implementation until late March 2015. The Company will
20 continue to provide updates to the Collaborative on the implementation of this
21 program and will also update the Commission in next year’s annual filing.

1 **Q. PLEASE PROVIDE AN UPDATE ON THE RESULTS FROM**
2 **CHANGES MADE TO REDUCE OPT OUTS.**

3 A. In March of 2014, DEC offered customers who had previously elected to opt
4 out in the annual window the opportunity to opt in the first week of March
5 (five business days). During the five-day period, DEC received notification
6 that 101 customer accounts accounting for a total annual usage of 147,294.5
7 MWh elected to opt in. The implementation of the additional window
8 allowed for these customers to opt in to participate in EE and/or DSM
9 programs that otherwise would not have had this option. In addition to the
10 annual opt-in window, the Sub 1032 Order approved DEC's request to
11 increase the incentive up to 75 percent of the cost difference between new
12 standard equipment and new higher efficiency equipment for measures
13 offered in the Non-Residential Smart \$aver Program. To date, DEC has not
14 had EM&V performed on the Non-Residential Smart \$aver Program that
15 could potentially provide insight into isolating the effect of the increase to 75
16 percent has had on opt-out. Given the number of changes that have occurred
17 with the portfolio and the opt out eligibility, without the benefit of any EM&V
18 results DEC cannot determine the impact this change has had on opt-out at
19 this time. The Company will continue to monitor opt out trends and will
20 attempt to further evaluate the impact of the incentive increases upon
21 receiving EM&V results.

22 **IX. CONCLUSION**

1 **Q. DOES THIS CONCLUDE YOUR PRE-FILED DIRECT TESTIMONY?**

2 A. Yes.

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

		A	B	C	D		
					NC Residential Avoided Costs		
					A * C		
Residential Programs							
Line	EE Programs (at 50% Avoided Cost)	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)	
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)	
6	Total DSM Programs (at 75% Avoided Cost)	116,172		\$ 4,655,124	\$ 6,206,832	33.9010659%	\$ 1,578,137
							NC Non-Residential Avoided Costs
							A * C
Non-Residential Programs							
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)	
14	Total DSM Programs (at 75% Avoided Cost)	116,172		\$ 4,655,124	\$ 6,206,832	39.9179344%	\$ 1,858,229
							A14* C14
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
							A17* C17

(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

		A		B		C		D			
								NC Residential Avoided Costs			
								A * C			
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)	
Line	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
					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
Non-Residential Programs											
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
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

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

				A	B	C	D
						NC Residential Avoided Costs	
						A * C	
Line	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)	
	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
				System Avoided Cost Revenue Requirement @ 50%	System Avoided Cost @ 100%	NC Retail kWh Sales Allocation Factor (Miller Exhibit 5, Pg. 3)	A * C
Non-Residential Programs							
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
				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

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

		A	B	C	D		
					NC Residential Avoided Costs		
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. 4)	A * C
Residential Programs							
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
							NC Non-Residential Avoided Costs
		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)	A * C
Non-Residential Programs							
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
				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
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

		A		B		C =(A-B * 11.5%)		D= B+C		E NC Retail kWh Sales Allocation Factor (Miller Exhibit 5 pg. 6)		NC Residential Revenue Requirement
Residential Programs		System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Avoided Cost	System Cost	Earned Utility Incentive	System Cost Plus Incentive					D * E
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				
												NC Non-Residential Revenue Requirement
Non-Residential Programs		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)				D * E
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				
Total DSM Program Breakdown										NC Retail Peak Demand Allocation Factor (Miller Exhibit 5 pg. 5)		D30* E30
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

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

			A	B	C = (A-B) *11.5%	D= B+C	E	NC Residential Revenue Requirement
	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)	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	16,316,953	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	12,320,047	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
							NC Non-Residential Revenue Requirement	
	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)	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

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	Years 1 - 2									
	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
Vintage 1	Years 1 - 2									
	2009	2010	2011	1 Mth 2012	2012	2013	2014	2015	2016	Total
Non-Residential										
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	Years 1 - 3									
	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
Vintage 2	Years 1 - 3									
	2009	2010	2011 (1/2 year)	1 Mth 2012	2012	2013 ^(a)	2014	2015	2016	Total
Non-Residential										
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

Barnes Exhibit 2, page 1a

Vintage 3	Year 1, 2 and 3 Actuals and Year 4 estimated									
	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	\$ 4,276,207	\$ 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
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 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		2016 ^(a)	Total
			2015			
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		Total
			2015	2016 ^(a)	
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	

Barnes Exhibit 2, page 2a

Line	Residential	2014	Vintage 2016		2016 ^(a)	Total
			2015			
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%

Barnes Exhibit 3, page 1

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 Costs - 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.

Barnes Exhibit 3, page 2

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	
		<hr/>	
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
		<hr/>	
22	Total Energy Efficiency & Demand Side Program Costs	sum(Lines 1-20)	<u>\$ 89,733,313</u>

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	
		<hr/>	
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
		<hr/>	
46	Total Energy Efficiency & Demand Side Program Costs	Sum (Lines 25-44)	<u>\$ 66,177,873</u>

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		Decision Tree Node
	2009	2010	2011	2012	2013	2014	2015	2016	
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.

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	M&V impacts not available at the time of this filing.
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	
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 participate 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.

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			
<u>\$ in millions, rounded</u>	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.

Appliance Recycling Program

F. Evaluation, Measurement and Verification

The impact and process evaluation results for Appliance Recycling program years 2012 and 2013 is included in 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 interviews. 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.

Appliance Recycling Program

G. Appendix

Web Pages

The screenshot shows the Duke Energy North Carolina website. The navigation bar includes links for Residential, Business, Large Business, and Our Company. Under the Residential tab, there are links for Energy & Money Saving Offers, Smart Savers®, Home Energy House Call, Power Manager®, and Appliance Recycling. The Appliance Recycling section features a yellow refrigerator and the text: "We'll give you \$50 for your old, unwanted fridge. Call today: 855.398.6200". Below this, it states: "FREE fridge pickup and recycling. You could save up to \$150 a year on your energy bill." and provides a link to "Schedule FREE pickup".

Up to 95 percent of your old fridge can be recycled, keeping its parts out of landfills.



Learn more about the environmental impact of fridge recycling (PDF) and why Duke Energy wants to help you use less energy (video).

Requirements

Who can participate?

To participate, you must:

- Be a Duke Energy residential customer with a valid Duke Energy account number
- Own your extra refrigerator

There is a limit of two appliances recycled per account, per calendar year.

Is my fridge eligible?

To be eligible, your refrigerator must be:

- 10 to 35 cubic feet
 - Empty and defrosted
 - Plugged in and running/cooling – plug it in the day before so that it is cool upon arrival
 - Accessible for safe removal
- The pickup crew must have clear access to enter your home and remove the appliance. Please contact customer service if you have any questions or concerns.

Frequently asked questions

Bill Insert

The bill insert graphic features a white refrigerator sitting on a pile of autumn leaves. The text reads: "Recycle your refrigerator this fall!" and "NOW GET \$50 FOR YOUR OLD REFRIGERATOR". A blue recycling bin with the word "RECYCLE" and a recycling symbol is shown at the bottom left. The Duke Energy logo is at the bottom right.

Appliance Recycling Program

Direct Mail



<<Current Date>>

<<First Name>> <<Last Name>>
<<Street Address>>
<<City>>, <<State>> <<Zip Code>>

Dear <<Name>>,

Have an extra fridge or freezer?

We'll give you \$50 for your old appliance - and we'll pick it up for free. Simply schedule a pickup time that's convenient for you, and our representatives will haul your old, working fridge or freezer away for recycling. It's so easy!

1. Call or go online to schedule.
2. We'll pick up your fridge.
3. You get \$50.

After we remove your appliance, we'll recycle up to 95 percent of its parts and responsibly dispose of the rest. Our Appliance Recycling Program is an easy way to clean out your garage or basement, reduce your impact on the environment - and earn an extra \$50!

Schedule your pickup by Sept. 30 to qualify for the \$50 incentive.

Call 855.398.6200 or visit duke-energy.com/incentive to schedule your free pickup today!

Sincerely,


John Langston,
Project Manager, Appliance Recycling Program



**GET \$50
FOR YOUR SPARE
FRIDGE
OR
FREEZER**


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Charlotte, NC 28202

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Television

JACO DUKE-NC :20/10 TV - SNEAKY




Cut: An older woman standing in her living room, searching through her pile of junk in frustration. She's not sure what to do with the old refrigerator sitting in the way, so she decides to recycle it.

Woman: Hated that you take a beating out of my purse!




Cut: To his back room. The dog barks content and is making the piggy bank, which is making no noise. Again, we see the old fridge sitting in the way, so he decides to recycle it.

Boy: Mom! My piggy bank is empty!




Cut: To garage work station. Dad is working at the bench with the duct to remove fridge magnets in front of the hallway.

WB: Wondering where your cash is going?




Cut: To fridge as it inches forward, awkwardly in process.

WB: An old refrigerator can eat up a lot of energy.




Cut: Back to a close up of the father. The old refrigerator switches into the back porch and explodes in a cloud of smoke.

WB: ...and your money along with it.




Cut: Back to the fridge. We show the result: frozen compact meat and frozen the water into the result. Chomping happily.

WB: Recycle that refrigerator, and get some money back.




Cut: To the fridge as it is being recycled in the back of a truck. The motor as the truck pulls away.

WB: Cut is made several and some up to \$100 a year in future energy costs.



Cut: To cut used displaying the website offer: savings, energy, tag line and website contact information.

WB: To schedule your pickup of your old refrigerator or freezer, visit duke-energy.com/recycle.



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			
<i>\$ in millions, rounded</i>	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

Energy Efficiency Education Program

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,

Energy Efficiency Education Program

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.

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			
<u>\$ in millions, rounded</u>	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

Energy Assessments

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.

Energy Assessments

G. Appendix

Home Energy House Call Direct Mail



FREE OFFER FOR HOMEOWNERS



* Singers not included.



YOU SIGN UP. WE COME OVER. YOU SAVE.
Sign up today.



PRINT STD. US POSTAGE PAID DUKE ENERGY



OUR HOME ENERGY HOUSE CALL ROCKS
YOU GET A LOT OF FREE STUFF IN A BOX
PLUS AN EXPERT FROM DUKE ENERGY
WILL EXAMINE YOUR HOUSE FOR FREE

Take control of your energy use.

STEP 1: YOU SIGN UP
Ring.
Call - 844.DING.DONG
Go to - duke-energy.com/dingdong
Or fill out the form below

STEP 2: WE COME OVER
Hello.
\$150 VALUE - FREE!
Our energy expert will help you:
• Identify wasted energy
• Improve your home's energy use
• Find ways to save

STEP 3: YOU SAVE
Sweet!
SAVE ENERGY. SAVE MONEY.
Your home could be wasting more energy than you think. Take control of your energy use today.

PLUS: YOU GET A FREE STARTER KIT
\$30 value
The free energy efficiency starter kit helps you start saving right away.
• CFL bulbs • Energy-efficient showerhead • Kitchen faucet aerator
• Bathroom faucet aerator • Foam weatherstripping • Switch and outlet energy seals

HOME ENERGY HOUSE CALL - Ding Dong!

START SAVING.
Sign up today.

Schedule your **FREE** Home Energy House Call today. Fill out the form below, detach this card and place it in the mail. You can also sign up at duke-energy.com/dingdong, or by calling 844.DING.DONG.

Name on account _____
Address _____
City _____ State _____ ZIP _____
Daytime phone _____
Evening phone _____

To qualify, you must:
• Be a Duke Energy residential customer.
• Own a single-family home and have lived there for at least four months. (Mobile homes do not qualify)
• Have central air or electric heat or an electric water heater.

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Mar 04 2015

Energy Efficient Appliances and Devices

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

Energy Efficient Appliances and Devices

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

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			
<i><u>\$ in millions, rounded</u></i>	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.

Energy Efficient Appliances and Devices

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 distributors 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

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 exposure 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.

Energy Efficient Appliances and Devices

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

Get the latest energy-saving bulbs at the greatest prices. Check out just a few of our CFL bulbs.



Reflector CFL bulb
Directed beam of light. About as bright as the incandescent. Not even close to watts. And lasts 10,000 hours.
Energy rated: \$0.88
Get your price: \$0.42 per bulb



Candelabra CFL bulb
Designed for smaller fixtures. About as bright as the incandescent. Not even close to watts. And lasts 10,000 hours.
Energy rated: \$1.41
Get your price: \$1.14 per bulb



Globe CFL bulb
Early replacement. About as bright as the incandescent. Not even close to watts. And lasts 10,000 hours.
Energy rated: \$1.18
Get your price: \$1.14 per bulb

Presented by
Standard
U.S. Savings
Plan Energy

<Join O. Simple>
<Call 1.800.433.7885>
<Anytime, US 12345-6789>

Save up to 92 percent
on energy-saving bulbs.

And you may qualify
for free CFL bulbs.


DUKE ENERGY
505 S. Church St., E-1220A
Charlotte, NC 28202-1802

You don't have to go far to save big on bulbs.

Introducing the online Duke Energy Savings Store.



10719 04/04/15




The best place to shop for bulbs is closer than you might think.

The online Duke Energy Savings Store offers compact fluorescent light (CFL) and light emitting diode (LED) bulbs for a variety of fixtures inside and outside your home.


When you shop with us from your home computer, you'll find a wide selection of bulbs that:

- Last up to 25 years
- Use up to 80 percent less energy than incandescents
- Are name brand, ENERGY STAR® certified
- Cost up to 92 percent less than retail prices

Big savings start here. But last for years to come. Check out these capsule and reflector LED bulbs.



Dimmable LED bulb
Save more efficient and longer lasting. About as bright as the incandescent. Not even close to watts. And lasts 25,000 hours.
Energy rated: \$1.59
Get your price: \$0.42 per bulb



Reflector LED bulb
LED lighting for directed use. About as bright as the incandescent. Not even close to watts. And lasts 25,000 hours.
Energy rated: \$1.59
Get your price: \$0.42 per bulb


To get better bulbs at the best deals, visit duke-energy.com/CFLandLEDdeals today.

Keep your account number handy to access these offers:

<1234567890>

And you can get free CFLs too.

That's right. To help you save even more money and make the switch to energy-efficient bulbs easier, we're giving away standard CFLs for free. We'll even ship them for free. So don't wait. Even if you've requested bulbs before, you might be eligible for even more.



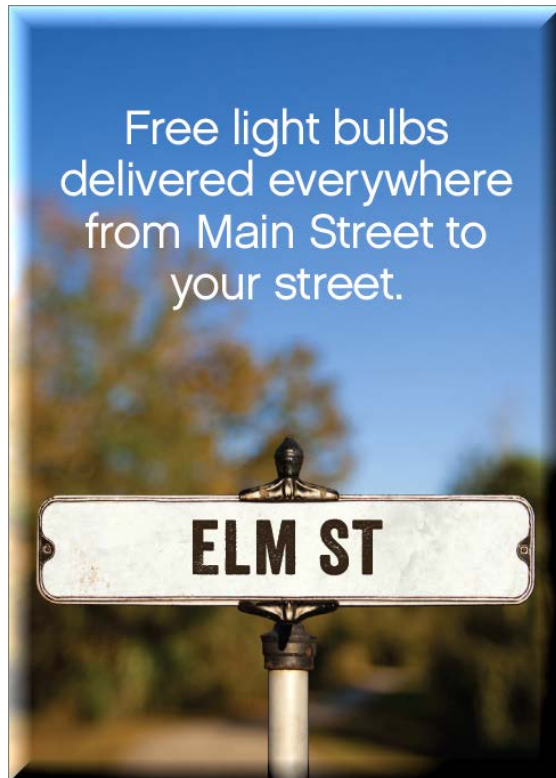
To check your eligibility and order your free CFLs, visit duke-energy.com/CFLsForFree or call 1.800.943.7585. NC, SC and OH customers select option 1 (KY customers select option 4).

Always recycle your CFLs. To find out why, how and where, visit usa.gov/1b075wV

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Mar 04 2015

Energy Efficient Appliances and Devices



Better bulbs for your home, delivered right to your door. All for FREE.

It's as easy as one, two, three.
You order. We deliver. You save.

For Ohio, North Carolina and South Carolina customers...
Simply call: 800.943.7585 (select option 1)
For Kentucky customers, (select option 4)

Or order online at: duke-energy.com/CFLdelivery

Your account number will make ordering easier:
<1234567890>

*Eligibility is based on previous participation in other Duke Energy energy efficiency programs. Fifteen free CFLs are the maximum number a participant (or their family) may receive under all Duke Energy program offerings.
**Based on ENERGY STAR® (www.energystar.gov) statistics and installing 15 CFL bulbs.

Duke Energy.

Savings Store – Specialty Bulbs



Foil Flame Top Candelabra CFL
Same as 25w; only uses: 7 watts
Retail: \$3.95, **you pay: \$1.84**



TCP Candelabra Base Torpedo CFL
Same as 25w; only uses: 8 watts
Retail: \$5.45, **you pay: \$1.54**



TCP G25 Globe CFL
Same as 60w; only uses: 14 watts
Retail: \$5.50, **you pay: \$1.30**



TCP G25 Globe CFL
Same as 40w; only uses: 9 watts
Retail: \$5.50, **you pay: \$1.30**



TCP LED A Lamp Dimmable Capsule
Same as 60w; only uses: 10 watts
Retail: \$12.75, **you pay: \$5.78**



TCP LED A Lamp Capsule
Same as 60w; only uses: 10 watts
Retail: \$12.95, **you pay: \$4.98**

Bulbs pictured in this brochure are not all proportional in size. Visit the online store for more information about bulb and base dimensions.

To order your deeply discounted CFLs and LEDs from the online Duke Energy Savings Store, visit:

duke-energy.com/BuyBulbs

Two ways to save on shipping.
From now until April 30, 2014 take advantage of the shipping deal that works best for you.

Get **\$5 flat-rate shipping** or enjoy **free shipping on orders of \$25 or more.**

Have your account number handy to make ordering even easier.

Always recycle your CFLs. To find out why, how and where, visit 1.usa.gov/1bD7Sww

Duke Energy Savings Store is available online to eligible Duke Energy residential customers in NC, SC, OH, and KY. Products, prices, availability, specifications, and offers are subject to change without notice. Duke Energy, 525 South Church Street, Charlotte, NC 28202. www.duke-energy.com/stores. Publication number: editandMktout102014

DUKE ENERGY.

Get better bulbs at the best prices when you shop the online Duke Energy Savings Store.




Energy Efficient Appliances and Devices

A wide variety of energy-saving bulbs are just a click away.


Check out all of the different CFLs and LEDs we offer, then start shopping at duke-energy.com/BuyBulbs ▶

 <p>MaxLine A21 Capsule CFL Same as 70w, only uses: 18 watts Retail: \$4.85, you pay: \$3.81</p>	 <p>TCP A19 Capsule CFL Same as 50w, only uses: 14 watts Retail: \$3.80, you pay: \$1.41</p>	 <p>Philips LED A Lamp Dimmable Capsule Same as 60w, only uses: 11 watts Retail: \$19.99, you pay: \$4.05</p>	 <p>Philips LED A Lamp Dimmable Capsule Same as 40w, only uses: 8 watts Retail: \$19.99, you pay: \$8.05</p>
 <p>TCP Dimmable Springlamp CFL Same as 100w, only uses: 22 watts Retail: \$14.30, you pay: \$2.35</p>	 <p>Earthmate T3 Three-Way Spiral CFL Same as 100w, only uses: 33 watts Retail: \$9.25, you pay: \$1.78</p>	 <p>TCP R20 Reflector CFL Same as 60w, only uses: 14 watts Retail: \$6.00, you pay: \$1.48</p>	 <p>TCP PAR28 Outdoor Reflector CFL Same as 50w, only uses: 23 watts Retail: \$6.75, you pay: \$1.81</p>
 <p>MaxLine R40 FloodMax Reflector CFL Same as 70w, only uses: 23 watts Retail: \$8.30, you pay: \$4.23</p>	 <p>TCP BR30 Reflector CFL Same as 60w, only uses: 14 watts Retail: \$6.00, you pay: \$1.83</p>	 <p>TCP GU10 LED MR16 Reflector Same as 30w, only uses: 7 watts Retail: \$16.95, you pay: \$4.35</p>	 <p>TCP Elite BR30 Reflector LED Same as 50w, only uses: 13 watts Retail: \$15.45, you pay: \$4.85</p>
 <p>GE R20 Dimmable Flood Reflector CFL Same as 60w, only uses: 15 watts Retail: \$15.95, you pay: \$1.85</p>	 <p>Crow CR6 Downlight Module Reflector LED Same as 60w, only uses: 9.5 watts Retail: \$38.75, you pay: \$28.25</p>	 <p>Philips Airflux BR30 Reflector LED Same as 60w, only uses: 10.5 watts Retail: \$31.95, you pay: \$18.55</p>	 <p>Philips PAR28 Flood Reflector LED Same as 40w, only uses: 8 watts Retail: \$24.95, you pay: \$14.95</p>

Get the latest energy-saving bulbs at the greatest prices.
Check out just a few of our CFL bulbs.



Candelabra CFL bulb
Designed for smaller spaces
Base diameter: 2 1/8 inches
Base width: 1 1/2 inches
Base height: 1 1/2 inches
Base weight: 1.5 lbs
Base price: \$1.50 per bulb



Globe CFL bulb
Designed for larger spaces
Base diameter: 2 1/8 inches
Base width: 1 1/2 inches
Base height: 1 1/2 inches
Base weight: 1.5 lbs
Base price: \$1.50 per bulb


To get better bulbs at the best deals, visit duke-energy.com/CFLandLEDdeals today.

Keep your account number handy to access these offers:

Product specifications, prices and availability are subject to change without notice.

You don't have to go far to save big on bulbs.

Introducing the online Duke Energy Savings Store.



A **B**

The best place to shop for bulbs is closer than you might think.

The online Duke Energy Savings Store offers compact fluorescent light (CFL) and light emitting diode (LED) bulbs for a variety of fixtures inside and outside your home.

When you shop with us from your home computer, you'll find a wide selection of bulbs that:

- Last up to 25 years
- Use up to 80 percent less energy than incandescents
- Are name brand, ENERGY STAR® certified
- Cost up to 92 percent less than retail prices

Big savings start here. But last for years to come.
Check out these capsule and reflector LED bulbs.



Capsule LED bulb
Consumers often get a longer-lasting bulb at night in the bathroom.
Base only: 14 watts
Base height: 1 1/2 inches
Base weight: 1.5 lbs
Base price: \$1.50 per bulb



Dimmable LED bulb
LED will save you money on the bathroom.
Base only: 14 watts
Base height: 1 1/2 inches
Base weight: 1.5 lbs
Base price: \$1.50 per bulb



Reflector LED bulb BR30
Great and looks at night.
Base only: 14 watts
Base height: 1 1/2 inches
Base weight: 1.5 lbs
Base price: \$1.50 per bulb

A bulb for every socket.



Compact CFL bulb
As bright as you want.
Base only: 14 watts
Base height: 1 1/2 inches
Base weight: 1.5 lbs
Base price: \$1.50 per bulb



Dimmable Spiral CFL bulb
Base only: 14 watts
Base height: 1 1/2 inches
Base weight: 1.5 lbs
Base price: \$1.50 per bulb



Outdoor Reflector CFL bulb
Stands up to the weather.
Base only: 14 watts
Base height: 1 1/2 inches
Base weight: 1.5 lbs
Base price: \$1.50 per bulb

Always recycle your CFLs. To find out why, how and where, visit usa.gov/107969v

Energy Efficient Appliances and Devices

Phase into energy-saving CFLs and LEDs for up to 92 percent off retail.

Standard incandescent bulbs are no longer made in or imported into the U.S. But today's CFLs and LEDs are ready to take their place. They last up to 25 times longer and are up to 80 percent more efficient. And now you can buy them at remarkably reduced prices at the online Duke Energy Savings Store.

Deep discounts are just a click away, at www.duke-energy.com/NewBulbs

Got questions? Just click the Frequently Asked Questions button along the way.

Keep your account number handy to access these offers:

<1234567890>

● = LED bulbs ● = CFL bulbs

Check out the wide variety of bulbs we offer:



PAR38 Flood Light CFL
Same as 25w, only uses 7 watts
Retail \$1.25, your price: \$1.84



PAR38 Flood Light LED
Same as 25w, only uses 9 watts
Retail \$1.45, your price: \$1.34

<p>T10 CFL bulb Same as 40w, only uses 34 watts Retail \$1.50, your price: \$1.20</p>	<p>T10 CFL bulb Same as 40w, only uses 34 watts Retail \$1.50, your price: \$1.20</p>	<p>T10 CFL bulb Same as 40w, only uses 34 watts Retail \$1.50, your price: \$1.20</p>	<p>T10 CFL bulb Same as 40w, only uses 34 watts Retail \$1.50, your price: \$1.20</p>	<p>T10 CFL bulb Same as 40w, only uses 34 watts Retail \$1.50, your price: \$1.20</p>
<p>PAR38 Flood Light CFL Same as 25w, only uses 7 watts Retail \$1.25, your price: \$1.84</p>	<p>PAR38 Flood Light CFL Same as 25w, only uses 7 watts Retail \$1.25, your price: \$1.84</p>	<p>PAR38 Flood Light CFL Same as 25w, only uses 7 watts Retail \$1.25, your price: \$1.84</p>	<p>PAR38 Flood Light CFL Same as 25w, only uses 7 watts Retail \$1.25, your price: \$1.84</p>	<p>PAR38 Flood Light CFL Same as 25w, only uses 7 watts Retail \$1.25, your price: \$1.84</p>

<p>PAR38 Flood Light CFL Same as 25w, only uses 7 watts Retail \$1.25, your price: \$1.84</p>	<p>PAR38 Flood Light CFL Same as 25w, only uses 7 watts Retail \$1.25, your price: \$1.84</p>	<p>PAR38 Flood Light CFL Same as 25w, only uses 7 watts Retail \$1.25, your price: \$1.84</p>	<p>PAR38 Flood Light CFL Same as 25w, only uses 7 watts Retail \$1.25, your price: \$1.84</p>	<p>PAR38 Flood Light CFL Same as 25w, only uses 7 watts Retail \$1.25, your price: \$1.84</p>
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Mar 04 2015

Energy Efficient Appliances and Devices

DUKE ENERGY

Save big. And save yourself from UltraMegaMart.

There may be some good reasons for trekking across a big box store to do your shopping, but buying energy-efficient bulbs isn't one of them.

Start saving now

Now you can get the light bulbs you need – ENERGY STAR® qualified, long-lasting and affordable – at the Duke Energy Savings Store.

You'll find a range of CFL bulbs as well as even more efficient LED bulbs that last 25,000 hours – that's about three years! With these name-brand bulbs at prices up to 92 percent lower than retail, buying from the Savings Store is a great way to conserve your budget. And your sanity.

\$5 flat rate shipping on all orders through Oct. 31st

FEATURED DEAL:
The 11-watt, long-life Philips® LED Capsule, now only \$6.99 (typical retail cost: \$19.99 per bulb)

Visit the Duke Energy Savings Store
Save up to 92% off a wide variety of energy saving light bulbs! [Learn more](#)

[Duke Energy Store on Twitter](#)
Follow us for special updates, tips and educational updates.

[Duke Energy Store on Facebook](#)
Get the latest deals, savings and news. Share your ideas.

[yourUtility on Facebook](#)
Discover new ways to save energy and money at home.

Update Your Subscriptions | Unsubscribe | Privacy Policy | [www.dukeenergysave.com](#)

Duke Energy 1200 South Tryon Street | Charlotte, NC 28202

Share this on [Facebook](#) [Twitter](#)

DUKE ENERGY

52% of households in 2013 had LED bulbs.

Time. Money. Energy. Who wants to waste things like that? Now Duke Energy offers a way to help you save all three!

Bright ideas to save energy and money: You already know that Compact Fluorescent Light (CFL) bulbs can last up to 10 times longer than "old school" incandescent bulbs...and consume less than one quarter of the electricity. But did you know that Duke Energy offers more than 15 varieties of CFL and Light Emitting Diode (LED) bulbs **at discounts of up to 92% off?**

Save time: Oh, forget about driving to a store and waiting in line to pay. Shopping online from a trusted source, with home delivery, is quick and convenient.

Just visit [www.Duke-Energy.com/GreatDeals](#), log-in to visit the store, get some application advice using the "shopping assistant", then make your selection and check out. Your bulbs will be delivered to your door. We call this the **Duke Energy Savings Store – you'll call it a good use of your time, money and energy.**

Don't make us ask what you're waiting for see what's waiting for you! For easy online access, here is your account number:

or use your feature phone number to log in

Check out the enclosed flyer and the online store for yourself

L. Granger
Lan Granger
Product Manager

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Mar 04 2015

Energy Efficient Appliances and Devices

The latest bulbs at the greatest prices.

FEATURED DEAL:
13-watt, long-life Philips® LED Capsule, now only \$8.95
Everyday retail \$14.99 per bulb

Plus discount shipping.

\$5 flat-rate shipping
on all orders through Dec. 31

Go to duke-energy.com/BigSavings

Duke Energy Savings Store is available online to eligible Duke Energy residential customers in NC, SC, GA, and FL. Products, prices, availability, restrictions, and other information for energy efficient products, such as CFLs, LED bulbs, and smart meters, are available at www.duke-energy.com/BigSavings. *Excludes certain products. †Excludes certain products. ©2013 Duke Energy. All rights reserved. Duke Energy is a trademark of Duke Energy. All other trademarks are the property of their respective owners. LED is a trademark of Philips Lighting. LED is a trademark of Philips Lighting. LED is a trademark of Philips Lighting.

You don't have to hit the big-box stores to save big.
A few recent deals – all now available with \$5 flat-rate shipping.

REFLECTOR	CANDELABRA	3-WAY SPIRAL	LED CAPSULE
Directional beam of light About as bright as 100-watt incandescent But uses only 14 watts And lasts 10,000 hours Everyday retail \$6.99 But you pay: \$4.83 per bulb	For smaller fixtures About as bright as 25-40w incandescent But uses only 6 watts And lasts 10,000 hours Everyday retail \$5.49 But you pay: \$1.24 per bulb	As bright as you want About as bright as 150w incandescent But uses only 23 watts And lasts 10,000 hours Everyday retail \$9.25 But you pay: \$1.76 per bulb	Even more efficient and longer lasting About as bright as 100-watt incandescent But uses only 11 watts And lasts 25,000 hours Everyday retail \$19.99 But you pay: \$4.00 per bulb – Now only \$3.00 per bulb
OUTDOOR REFLECTOR	GLOBE	CAPSULE	LED REFLECTOR
Stands up to the weather About as bright as 100w incandescent But uses only 13 watts And lasts 10,000 hours Everyday retail \$6.75 But you pay: \$1.82 per bulb	Yearly replacement About as bright as 100w incandescent But uses only 14 watts And lasts 10,000 hours Everyday retail \$5.50 But you pay: \$1.30 per bulb	Affordable bestseller About as bright as 60w incandescent But uses only 14 watts And lasts 10,000 hours Everyday retail \$3.80 But you pay: \$1.41 per bulb	LED efficiency for directional use About as bright as 100w incandescent But uses only 13 watts And lasts 25,000 hours Everyday retail \$31.99 But you pay: \$10.00 per bulb

Go to duke-energy.com/BigSavings to see all the choices.
Have your electric bill account number handy when you go to shop online.

Shop for energy- and money-saving bulbs:
Visit: www.duke-energy.com/ShopBulbs

Use your account number to shop online:
123456789

Save this refrigerator magnet as a reminder to return again to shop for a growing selection of energy-saving products at deeply discounted prices.

Save energy. Save money. Save a trip to the store.
Order deeply discounted energy-efficient bulbs at duke-energy.com/ShopBulbs

DUKE ENERGY.
2022A, 202B Church St.
Charlotte, NC 28202

\$5 flat rate shipping
on all orders placed now through October 15, 2013.
Available at checkout.

©John Q. Samples
©1284 Main Street
©Anytown, US 04821-9876

DUKE ENERGY.

Savings Store

Get bulbs that use less energy, for less money, delivered to your door.

Now with \$5 flat rate shipping until October 15, 2013.

Duke Energy Online Savings Store offers:

- Wide variety of most common bulbs to replace conventional incandescent bulbs
- Bulbs at discount prices up to 90% off everyday retail price
- Easy online ordering and convenient home delivery
- ENERGY STAR® qualified CFL and LED bulbs that use less electricity and can last up to 10 to 50 times longer than incandescent bulbs

Go to: www.duke-energy.com/ShopBulbs

LED CAPSULE	LED REFLECTOR	CANDELABRA	CAPSULE	GLOBE
Philips 813 Watts: 11 Equivalent to 60-watt* Lumens: 800 Life: 25,000 hours Base: Medium Retail: \$12.00 You Pay: \$4.00	GE Energy Smart® 813 Watts: 10 Equivalent to 60-watt* Lumens: 800 Life: 25,000 hours Base: Medium Retail: \$11.99 You Pay: \$3.99	Philips 7 Watts: 7 Equivalent to 40-watt* Lumens: 250 Life: 1,000 hours Base: Medium Retail: \$12.00 You Pay: \$2.50	Philips 9 Watts: 9 Equivalent to 40-watt* Lumens: 250 Life: 1,000 hours Base: Medium Retail: \$12.00 You Pay: \$2.50	Philips 11 Watts: 11 Equivalent to 60-watt* Lumens: 800 Life: 25,000 hours Base: Medium Retail: \$12.00 You Pay: \$4.00
Philips 13 Watts: 13 Equivalent to 75-watt* Lumens: 1100 Life: 25,000 hours Base: Medium Retail: \$12.00 You Pay: \$4.00	Philips 15 Watts: 15 Equivalent to 75-watt* Lumens: 1100 Life: 25,000 hours Base: Medium Retail: \$12.00 You Pay: \$4.00	Philips 17 Watts: 17 Equivalent to 100-watt* Lumens: 1300 Life: 25,000 hours Base: Medium Retail: \$12.00 You Pay: \$4.00	Philips 19 Watts: 19 Equivalent to 100-watt* Lumens: 1300 Life: 25,000 hours Base: Medium Retail: \$12.00 You Pay: \$4.00	Philips 23 Watts: 23 Equivalent to 150-watt* Lumens: 1800 Life: 25,000 hours Base: Medium Retail: \$12.00 You Pay: \$4.00

REFLECTOR	OUTDOOR REFLECTOR	DRUMMING REFLECTOR	3-WAY SPIRAL	INCANDESCENT SPIRAL
Philips 100 Watts: 12 Equivalent to 75-watt* Lumens: 1100 Life: 10,000 hours Base: Medium Retail: \$12.00 You Pay: \$4.00	Philips 100 Watts: 12 Equivalent to 75-watt* Lumens: 1100 Life: 10,000 hours Base: Medium Retail: \$12.00 You Pay: \$4.00	Philips 100 Watts: 12 Equivalent to 75-watt* Lumens: 1100 Life: 10,000 hours Base: Medium Retail: \$12.00 You Pay: \$4.00	Philips 100 Watts: 12 Equivalent to 75-watt* Lumens: 1100 Life: 10,000 hours Base: Medium Retail: \$12.00 You Pay: \$4.00	Philips 100 Watts: 12 Equivalent to 75-watt* Lumens: 1100 Life: 10,000 hours Base: Medium Retail: \$12.00 You Pay: \$4.00

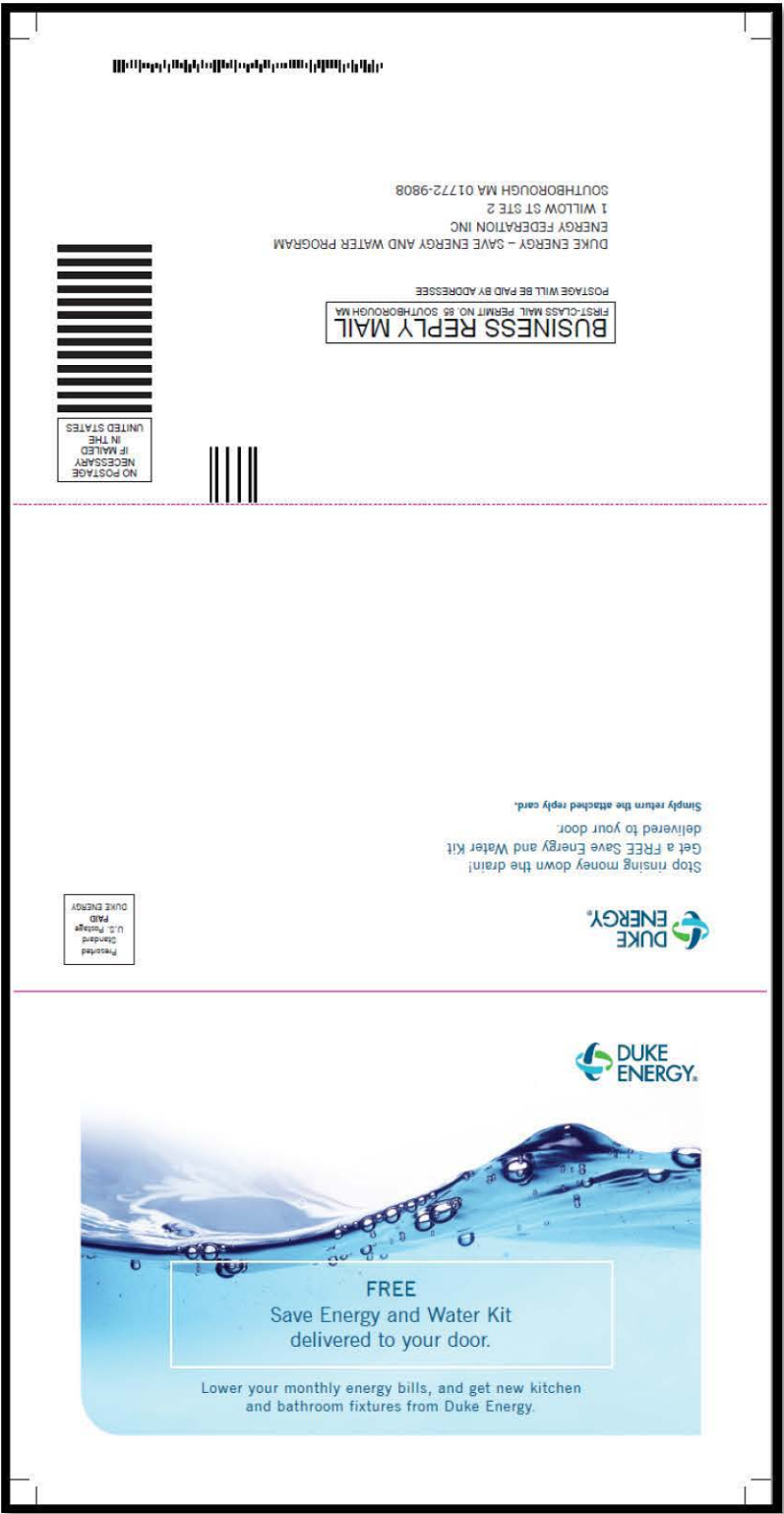
*Equivalent wattage only. Not an exact replacement.

To shop or buy online, locate your Duke Energy account number and go to www.duke-energy.com/ShopBulbs

Energy Efficient Appliances and Devices

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Mar 04 2015



Energy Efficient Appliances and Devices

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Mar 04 2015

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 materials and a step-by-step, detailed installation guide.

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

Only heating and cooling uses more energy. Your water heater can account for 18 percent of your monthly energy bill. So, it only makes sense that if you save water, you save the energy it takes to heat that water.

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

Inside the Save Energy and Water Kit



Low-flow showerheads

If your showerhead is several years old, you could save as much as two gallons of water each minute, or more, by replacing it with one of our low-flow models.

Faucet aerators

Faucet aerators mix air with water to reduce the amount of water used while maintaining a satisfactory water pressure.

Insulation tape for your water heater pipes

The energy needed to heat water can represent a large portion of your monthly energy bill. Wrapping your water heater pipes is a simple way to help maintain water temperature in your home and save you nearly 17 percent on your monthly bill.

Installation guide and how-to video

Your kit also includes a detailed, step-by-step instructional guide to help you complete the installation of your new fixtures.

To learn more about this new program, or the kit, visit duke-energy.com/savewater or call 866.807.1544.

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


I confirm that my residence has an electric water heater, and that its location corresponds with my Duke Energy account on record. I will install my new fixtures at this residence only.


The barcode above is embedded with your address and account information. This system ensures your privacy and allows us to process your order quickly by scanning the barcode.

Energy Efficient Appliances and Devices

High Efficiency Pool Pump Customer Factsheet

Smart Saver® Pool Energy Efficiency Incentive Program





Save big on your electric bill with a new ENERGY STAR® qualified pool pump.

Upgrade your pool pump. Get \$300.

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.

Why an upgrade makes sense:

- Reduces pool energy use by **50 to 70 percent****
- Saves you **\$200 a year** on average*
- Improves filtration and prolongs equipment life
- Reduces operating noise
- **\$300 rebate** from Duke Energy

Did you know?

Inefficient, single-speed pool pumps consume up to 20 percent* of a home's total annual energy usage. Only your central air conditioner uses more power in the summertime. Upgrade today and cut your pool-related energy use in half!

Questions? Call 866.507.3496 or email VSPumpIncentive@duke-energy.com.

* U.S. Energy Information Administration
 ** U.S. Department of Energy
 † EnergySaver Savings Calculator
 Energy use and savings are based on U.S. Department of Energy and ENERGY STAR national estimates.
 Actual savings may differ from these estimates due to variations in individual energy use habits, size of pool and pool pump model.

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High Efficiency Pool Pump Display Ad

Pool pump using too much energy?
Get **\$300 cash** to upgrade to an energy-efficient pump.



[Learn more](#)



Smart Saver®

Energy Efficient Appliances and Devices

High Efficiency Pool Pumps Product Webpage

Pool Energy Efficiency Program

Is your pool pump using too much energy?

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

[Find a contractor](#)



If you have a single-speed pool pump, or your pump is more than seven years old, installing an ENERGY STAR® qualified variable-speed pool pump will help you lower your monthly bills and use less energy. And, we'll help you pay for it.

An energy-efficient pool pump will help:

- Reduce your energy usage by 50 to 70 percent**
- Save up to \$200 a year on average†
- Improve water filtration and extend the life of your equipment
- Reduce operating noise

And the best part? After you purchase an eligible variable-speed pool pump, we'll give you a \$300 rebate!

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

Did you know that inefficient, single-speed pool pumps account for up to 20 percent of a home's total annual energy usage?† Only your central air conditioner uses more electricity in the summertime.

Cut your pool energy use in half by installing a variable-speed pool pump. With the Smart Saver® Pool Energy Efficiency program, the benefits add up.

Reduce pool energy use by
50-70%

Eligibility requirements

- You must be an electric service customer residing in a single-family residence with a new or existing in-ground swimming pool. Customers living in apartments and multifamily homes are not eligible at this time.
- Your new variable-speed pool pump must be installed by a participating contractor and operable before you submit your rebate application.
- Homeowners or builders must fill out and submit the rebate application within 90 days of the installation to receive a rebate check by mail.

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 participating contractor in your area.

[Find a contractor](#)

Frequently asked questions

Energy Efficient Appliances and Devices

High Efficiency Pool Pump Email

122522 - SmartSaver Pool pump - July

Subject line options:
 (-) Cut your swimming pool waste in half this summer.
 (-) Save big on your swimming pool waste.

DUKE ENERGY | Smart Saver®

Lower your energy bills by upgrading your pool pump and get \$300.

If you have a single-speed pool pump, or your pump is more than seven years old, installing an ENERGY STAR® qualified variable-speed pump can save you big.

A variable-speed pool pump will help:

- Reduce your energy usage by up to 50 to 70 percent*
- Save up to \$266 a year on average*
- Improve water filtration and extend the life of your equipment.
- Reduce operating noise.

And the best part? We'll give you \$300 after you purchase and install your qualifying energy efficient pool pump!

[Learn more](#)

*Savings figure based on U.S. Department of Energy calculator estimates. Actual savings may differ based on individual energy use habits, size of pool and pool pump model.
 **Savings figure based on EnergyGuide® reduction estimates.

Update Your Subscription | unsubscribe | Privacy Policy | www.duke-energy.com

Duke Energy | 500 South Tryon Street | Charlotte, NC 28202

High Efficiency Heat Pump Water Heater National Retailer Display

Cut water heating costs in half.

Save big when you upgrade to a heat pump water heater.

LOWER BILLS
 Save up to \$250 on water heating costs**

REBATE
 Qualify for a \$350 mail-in rebate from Duke Energy**

Get your \$350 cash rebate in three easy steps:

STEP ONE: Make your selection.
 Select and purchase the ENERGY STAR® model that fits your needs.

STEP TWO: Installation.
 Schedule an installation date with one of our participating contractors.

STEP THREE: Get your cash.
 Submit your rebate application.

**Cost savings is comparing a heat pump hot water heater to a standard 50-gallon electric water heater.
 **Heat pump water heater must be ENERGY STAR qualified.

For more information, call 866.507.3496 or visit duke-energy.com/SaveBig.

Low's is not responsible for the fulfillment of the rebate.

DUKE ENERGY | Smart Saver®

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Heat Pump Water Heater Bill Insert

Get \$350 and save big with a heat pump water heater.

Install an ENERGY STAR® heat pump water heater and start saving energy and money today:

- Cut electric water heating costs in half and save up to \$250 a year – or more – every year*
- Receive a \$350 rebate

*For average households, according to ENERGY STAR.

Learn more at duke-energy.com/350Rebate or call 866.507.3496.

DUKE ENERGY | Smart Saver®

Energy Efficient Appliances and Devices

Heat Pump Water Heater Co-Branded Campaign



SAVE UP TO \$550
when you replace
your inefficient
electric water heater
with a GE® GeoSpring™
Water Heater!

A standard electric water heater costs an average of \$583 every year to operate. The GE® GeoSpring™ Hybrid Electric Water Heater uses 62% less energy than standard electric water heaters.*

INSTANT SAVINGS: \$200!

Hurry! Instant savings are valid through December 3, 2014.

DUKE ENERGY MAIL-IN REBATE: \$350!†

Available on installed purchase of GeoSpring™ water heater through participating retailers and contractors.

Take advantage of these savings by visiting a Lowe's or Sears near you. To learn more, visit GeoSpring.com.



*Based on DOE test procedure and comparison of a 50 gallon standard electric tank water heater using 4500 kWh per year vs. the GE® GeoSpring™ Hybrid Electric Water Heater using 1680 kWh per year and an average water bill of \$10.72 per month.
†Maximum rebate is \$350. Rebate is available to customers who purchase a GE® GeoSpring™ Hybrid Electric Water Heater through participating retailers and contractors. Some restrictions and exclusions apply. Must be a Duke Energy electric customer with electric water heating. Rebate subject to change without notice. For full details and eligibility on the mail-in rebate, visit GeoSpring.com.
Lowe's and Sears are not responsible for fulfillment of the rebate.

Heat Pump Water Heater Email

Subject line:
Save up to \$550 on a new water heater thru Dec. 3

DUKE ENERGY | Smart Saver®

Save up to \$550
on a new
GE® GeoSpring™
water heater.

Plus cut your water heating costs in half!

- ✓ **\$200 in instant savings** when you purchase from Lowe's or Sears by Dec. 3, 2014
- ✓ **\$350 cash rebate** from Duke Energy, when installed by Lowe's or Sears
- ✓ **Plus save hundreds of dollars every year on water heating costs****

Average rating of
4.6 out of 5 stars
from 375+ reviews!

Learn more
about the GE GeoSpring Hybrid

* Some restrictions and exclusions apply. Must be a Duke Energy electric customer with electric water heating. For full details and eligibility on this mail-in rebate, visit DukeEnergy.com/GeoSpring.
** Cost savings are estimated by comparing a heat pump water heater to a 50-gallon standard electric water heater.

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Mar 04 2015

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			
<i>\$ in millions, rounded</i>	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

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

Stay cool this summer with our Smart \$aver Health Check.

Why choose a Health Check over a standard tuneup?
Our Health Check is more thorough than the average preventive maintenance or standard tuneup services, using state-of-the-art diagnostic tests for your system. Plus, we'll give you \$50 cash to help you make the recommended improvements.

Signs you need a Smart \$aver Health Check:

- ✓ Your home isn't cooling down quickly on a hot summer day.
- ✓ Your system is always working to keep up with outside temperatures.
- ✓ Your summer energy bill is higher than usual.

Find the right professional for the job with our online search tool.
Visit duke-energy.com/StayCool to get started today.

©2014 Duke Energy Corporation. 143751 7/14

As you accept that your home wastes energy like a teenager wastes a date plan. And that paying for the repairs is going to take plenty of allowance money.

OMG (eye roll).

Would hundreds of dollars help?

Truly yours

DUKE ENERGY | Smart \$aver®

Get hundreds of dollars from Duke Energy toward home improvements that improve comfort, save energy and lower your bills.

- \$250 for attic insulation and air sealing
- \$500 for a new qualifying AC unit or heat pump
- \$100 for duct sealing
- \$75 for duct insulation
- \$100 for a Duke Energy heat pump or AC "Health Check"

Start help you get started on your home improvements with our list of participating contractors.

Visit duke-energy.com/EnergySavings
or call 866.765.6279

We will be applying this Savings Program only to customers who have signed up for the program. It is subject to the terms and conditions of the program. Not available in all areas. © 2014 Duke Energy Corporation.

Awareness 1 : NON Injuna INSERT (inside)

Residential HVAC – Email Message

DUKE ENERGY | Smart \$aver®

Thinking of you this back-to-school season as your bank account starts to feel just as drafty as your living room.

Happy fall, y'all.

Would \$425 help at all?

Get up to \$425 from Duke Energy toward the cost of insulating and sealing your attic and ducts.

Find a participating contractor



- ✓ Make your home more comfortable
- ✓ Save money on energy bills
- ✓ Enjoy better indoor air quality

Get up to \$425 for improvements

Kirkland
Air Conditioning & Heating, Inc.

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Duke Energy | 550 South Tryon Street | Charlotte, NC 28202

Share this on:  

Residential HVAC – Bill Insert

Get up to \$250 cash to improve your attic insulation.

 +  = 

Insulate Seal Save

Find a certified contractor to assess your home at duke-energy.com/250.

DUKE ENERGY | Smart \$aver®

Residential HVAC – Co-Branded Campaigns

DUKE ENERGY | Smart \$aver®

Limited-time offer!
\$99

Get a comprehensive system Health Check for your heat pump and AC unit.

For a limited time only, you can get a complete Smart \$aver® Health Check for your heating and cooling system for only \$99.

- ✓ Improve your comfort and air quality and extend the life of your equipment
- ✓ Get \$50 toward improving your heating and cooling system with recommendations from our advanced assessment
- ✓ Use less energy and lower your bills

KIRKLAND
Air Conditioning & Heating, Inc.

KirklandAC.com
Charlotte, NC 28205

Act now! Offer expires in seven days. Call 704.332.9276 today.

Is your attic insulation doing its job?
Is leaky ductwork costing you money on your energy bill?

Find the answers to these questions with our home energy audit – only \$99, for a limited-time only.

Air ducts and attic insulation can bring dirt and air contaminants inside your home. When they are properly sealed and insulated, you will improve your air quality, make your home more comfortable and lower your monthly bill.

You could also qualify for hundreds of dollars from Duke Energy to improve your home after an energy audit.


DUKE ENERGY | Smart \$aver®

GREEN HORIZON

GreenHorizon.com
Charlotte, NC 28206

Act now! Offer expires in seven days. Call 704.323.7473 today.




Residential HVAC – Website Re-Design


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Smart Saver®

Assess

Improve


Save



Get \$50 to invest in the health of your heat pump or AC system.


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How it works:




STEP ONE:
Call one of our participating contractors

Once you pick your home improvement project, find the right person for the job. Our search tool easily connects you with our trusted network of participating contractors.



STEP TWO:
Make improvements

You've invested in the comfort, value and energy efficiency of your home. You will enjoy the benefits of this choice for years to come.









STEP THREE:
Get your cash

And now, the best part. Your contractor completes and submits your application and your cash rebate arrives in your mailbox.


How can we help you?

Our home improvement rebate programs help you make your home more comfortable. You can improve the air quality in your home. Fix uneven temperature spots and make sure your equipment is running efficiently. These strategies help you reduce your energy usage and save on your monthly bill.


[+ Show All](#)

 HVAC Install	Get \$280
 Health Check	Get \$50
 Insulate and Seal - Ductwork	Get \$175
 Insulate and Seal - Attic	Get \$250
 Variable-Speed Pool Pump Install	Get \$390
 Heat Pump Water Heater Install	Get \$350

Residential HVAC – Email Message



Smart **\$aver**®



Thinking of you

*Thinking of you as you
batten down the hatches
for another rough winter –
and remember that those
hatches didn't help much
last year.*


Would \$425 help at all?

Get up to **\$425** from Duke Energy toward the cost of insulating and [sealing your attic and ducts](#).

Find a participating contractor

- ☒ A comfier home
- ☒ Lower energy bills
- ☒ Better indoor air quality



Get up to **\$425** for Improvements.




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HVAC Install


North Carolina • Gas Energy • Water • Energy • Energy Saving Offers • Smart Search • HVAC Install

Your AC breaks? Bad news. We'll give you \$200 toward a new one. Score!

[Find a contractor](#)

We're in luck! you'll pay for it. Heck, we'll even give you \$200 toward a new AC in freezing weather.

A big, booming, winning bank of credit that you can't ever lose for a year around the block.



Save up to \$200

HVAC

Is it time to replace your old, worn-out heating and cooling system? If your heating and cooling equipment is more than 10 years old or isn't making your home as comfortable as you'd like, consider installing a high-efficiency system. It will help:

- Make your home more comfortable
- Reduce your energy usage and carbon footprint
- Save you money for years to come


And the best part? If your new equipment meets our eligibility requirements, you could get a \$200 rebate!

Switching to a more energy-efficient system can save you big.

You might be surprised at which areas of your home use the most energy. Heating and cooling use the most energy in an average household – more than 40 percent of your monthly bill comes from the energy needed to heat and cool your home.

Installing an energy-efficient heat pump can save you up to \$200 on your heating and cooling costs each year.

This chart illustrates how much you can save when you install a new HVAC system that uses less energy to heat and cool your home. A SEER number is an energy efficiency rating. The higher the number, the less energy the system needs to use to make your home comfortable. And the benefits add up!




SEER Rating	Annual Operating Cost (\$)
SEER 13.5	\$1700
SEER 14	\$1516
SEER 15	\$1471
SEER 16	\$1446
SEER 18	\$1398

*Based on typical conditions for the average homeowner in the Southeast. Performance of the unit for a year, based on average weather in the Southeast.

Annual operating cost based on 5.0-ton heat pump with 10.0 condensing unit. Cooling capacity based on design conditions in Charlotte, North Carolina, from 2009-2010. Savings only when operating in cooling conditions. North Carolina's energy rebate can offset up to \$200.

Residential HVAC – Website



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- HVAC Install
- Health Check
- Insulate and Seal
- Pool/Energy Efficiency
- Heat Pump Water Heater Install
- Become a Residential Trade Ally
- Give Us Your Feedback
- Contractor Search

Insulate and Seal

Is **leaky ductwork** costing you money?

Get \$175 cash
to help you save on your monthly bill

[Find a contractor](#)



Save up to \$425

Insulate and Seal


By improving your home's energy efficiency with insulation and air sealing, you can save big on your energy bills and make your home more comfortable. In fact, many energy efficiency improvements pay for themselves quickly in energy savings.

Attic

Does your home feel drafty in the attic? Do you experience uneven temperatures between rooms or walking down hallways? Is your heating and cooling equipment running constantly, even when you don't think it should be? If you answered "yes" to any of these questions, then you might need to seal the leaks and increase the amount of insulation in your attic. Attic insulation and attic air sealing are proven to provide lifelong energy savings – and improve the quality of the air you breathe every day.

Signs that you need better attic insulation in your home:

- ☒ Drafty rooms.
- ☒ Rooms that are too hot or too cold.
- ☒ Uneven temperatures between rooms.
- ☒ High heating or cooling bills.



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.

Income-Qualified Energy Efficiency and Weatherization Assistance Program

B & C. Impacts, Participants and Expenses

Income Qualified Energy Efficiency and Weatherization Assistance ¹			
<i>\$ in millions, rounded</i>	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

Income-Qualified Energy Efficiency and Weatherization Assistance Program

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

Income-Qualified Energy Efficiency and Weatherization Assistance Program

G. Appendix

Event Postcard Front:



The postcard front features a photograph of a smiling man in a blue shirt holding a compact fluorescent light bulb and a roll of insulation. To the right of the photo is a blue text box with white text. At the bottom is a dark blue banner with the Duke Energy logo and program details.

Your neighborhood has been selected for FREE products and services.

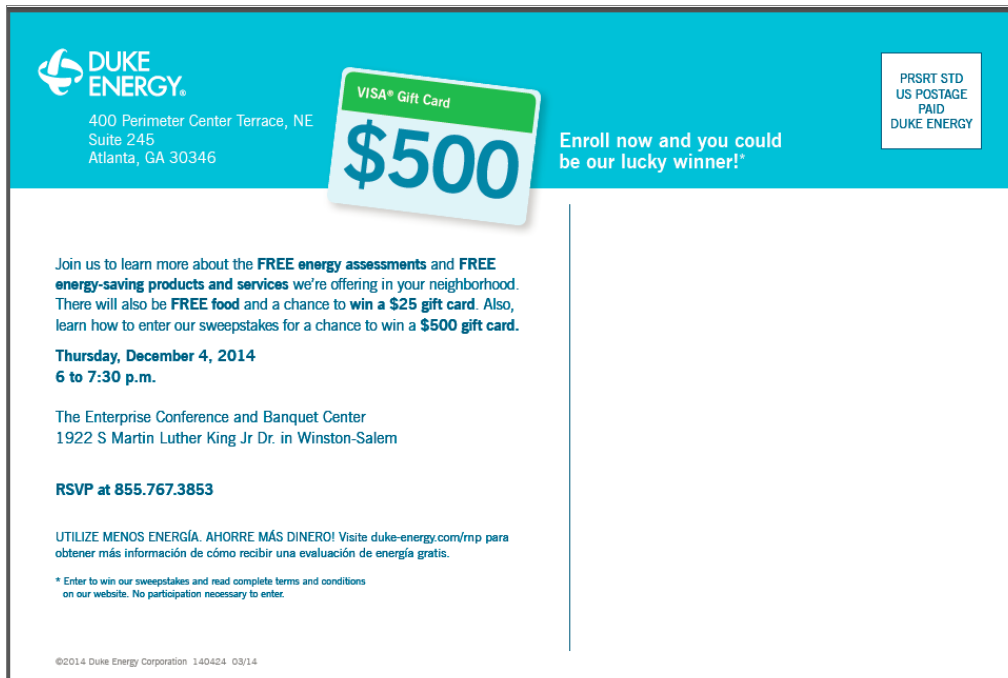
Join us at a special family-friendly event to learn about the free energy-saving items, worth up to \$210, that we will be installing in homes in your neighborhood for FREE.

- Info on FREE home energy assessments
- FREE food
- Chance to win a \$25 gift card
- Learn how to enter our \$500 gift card sweepstakes

Learn more at duke-energy.com/rnp

DUKE ENERGY. Residential Neighborhood Program | Use less. Save more!

Event Postcard Back:



The postcard back has a light blue background. On the left is the Duke Energy logo and address. In the center is a graphic of a \$500 Visa gift card. On the right is a small box with postage information. The main body contains event details in English and Spanish, including date, time, location, and RSVP information. A small asterisk note is at the bottom left.

DUKE ENERGY.
400 Perimeter Center Terrace, NE
Suite 245
Atlanta, GA 30346

VISA® Gift Card
\$500

Enroll now and you could be our lucky winner!*

PRSR STD
US POSTAGE
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DUKE ENERGY

Join us to learn more about the **FREE energy assessments** and **FREE energy-saving products and services** we're offering in your neighborhood. There will also be **FREE food** and a chance to **win a \$25 gift card**. Also, learn how to enter our sweepstakes for a chance to win a **\$500 gift card**.

Thursday, December 4, 2014
6 to 7:30 p.m.

The Enterprise Conference and Banquet Center
1922 S Martin Luther King Jr Dr. in Winston-Salem

RSVP at 855.767.3853

UTILIZE MENOS ENERGÍA. AHORRE MÁS DINERO! Visite duke-energy.com/rnp para obtener más información de cómo recibir una evaluación de energía gratis.

* Enter to win our sweepstakes and read complete terms and conditions on our website. No participation necessary to enter.

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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!

Income-Qualified Energy Efficiency and Weatherization Assistance Program

Event Flyer

Front of Flyer



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



Please join us to learn more about the FREE walkthrough energy assessments we'll be performing in your neighborhood through our Residential Neighborhood Program. There will be demonstrations of our FREE energy-saving products, a FREE meal and a chance to WIN a \$25 gift card. Also, learn how to enter our sweepstakes for a chance to win a \$500 gift card.

The Enterprise Conference and Banquet Center
1922 S Martin Luther King Jr Dr.
Winston-Salem, NC 27107

Thursday, December 4, 2014
6 to 7:30 p.m.

RSVP by calling 855.767.3853

The Residential Neighborhood Program is a FREE walkthrough energy assessment and improvement program for qualified customers.

In the days following this neighborhood event, an Energy Specialist will visit your house to perform a walkthrough assessment that will show you where your home is wasting energy.

During the FREE walkthrough assessment, we'll also give you 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 install them, too. Services provided are based on your home's specific energy usage and needs.

Learn more at duke-energy.com/mp


* Enter to win our sweepstakes and read complete terms and conditions on our website. No participation necessary to enter.


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Residential Neighborhood Program

Back of Flyer

All homes within the map included are eligible to participate.





Multi-Family Energy Efficiency Program

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			
<i>\$ in millions, rounded</i>	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

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

The screenshot shows the Duke Energy website's Multifamily Energy Efficiency Program page. The top navigation bar includes the Duke Energy logo, a location selector set to 'North Carolina', and links for 'View Mobile', 'Contact Us', and 'Investors'. A search bar is also present. Below the navigation bar, the 'BUSINESS' tab is selected, and the 'Multifamily Energy Efficiency Program' is highlighted in the left sidebar. The main content area features a large blue banner with the text 'Multifamily Energy Efficiency Program helps you deliver Longer product life. Happy tenants.' and an image of a family. Below the banner, there is a section titled 'Swap and Save' which describes the program's benefits and includes a list of energy-efficient products. A 'Get started!' section provides contact information and a link to the program brochure and FAQs.

DUKE ENERGY

North Carolina change location

[View Mobile](#) [Contact Us](#) [Investors](#)

RESIDENTIAL **BUSINESS** **LARGE BUSINESS** **OUR COMPANY**

Save Energy & Money

- > Easy Ways to Lower Your Bill
- > Your Business Savings Toolkit
- > Online Business Energy Analysis
- > **Multifamily Energy Efficiency Program**
- > Small Business Energy Saver
- > The Business Energy Advisor Approach
- > Smart Saver Incentive Program - Midstream Channel

[North Carolina Business > Save Energy & Money > Multifamily Energy Efficiency Program](#)

Multifamily Energy Efficiency Program

Multifamily Energy Efficiency Program helps you deliver

Longer product life. Happy tenants.

In today's competitive rental market, you need ways to set your community a step above your competition, in order to attract new tenants and retain existing ones.

Duke Energy will help by providing and installing energy-efficient lighting and water measures in each unit at your property to assist with scaling energy consumption and slicing utility costs for your tenants.

Swap and Save

We will replace your existing light bulbs with energy efficient products as well as insulate your hot water pipes (if water is heated by electricity), for longer life and lower utility bills. Your tenants will save instantly and your maintenance to-do list will dwindle.

Save Watts

Compact fluorescent light bulbs (CFLs) use up to 75 percent less energy and last up to 10 times longer than incandescent light bulbs. They also run cooler.

Get started!
Schedule a free assessment today.
Email or call 1-888-297-1671.

Program forms
Get the safety and cost-saving details on these energy-efficiency products ... and get started!

- [Program brochure](#)
- [Program FAQs](#)

Multi-Family Energy Efficiency Program

Tenant Leave-Behind

Program Brochure

Duke Energy Multifamily Energy Efficiency Program



Today we installed the following energy-saving products in your home:



Compact fluorescent lightbulbs
CFLs last longer than incandescent bulbs and use up to 75 percent less energy.



Faucet aerators*
Faucet aerators installed in the kitchen and bathroom use up to 50 percent less water than standard faucet aerators.



Showerhead*
An energy-efficient 1.5 gpm showerhead will use less water than a regular showerhead, which means you can also use less energy to heat the water.



Pipe wrap*
Hot water pipe wrap reduces water and energy use by preventing heat loss while hot water travels through the pipes.

*Provided only to properties that use electricity to heat the water.



For more information, contact Duke Energy Multifamily Energy Efficiency Program at 888.297.1671 or dukeenergymultifamilyesp@trankinenergy.com. Or, visit duke-energy.com/multifamily.

Note that this program is administered by Trankin Energy, a contractor of Duke Energy, with experience in the installation of home energy saving products. ©2014 Duke Energy Corporation

Customer Survey

Thank you for participating in this program. We'd like to know how we did installing your new energy-saving products. Please complete this short survey and mail it to us. OR take our online survey at duke-energy.com/multifamilysurvey.

Property Name	Unit #	City	State	ZIP						
I was notified in advance of this work. <input type="checkbox"/> Yes <input type="checkbox"/> No										
I was at home while the technicians installed the products. <input type="checkbox"/> Yes <input type="checkbox"/> No										
The technician's ID badges were visible. <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A										
Using a scale of 1 to 10, please rate your level of agreement with the following statements: (Circle your response)										
Overall, I was satisfied with the Duke Energy Multifamily Energy Efficiency Program.	1	2	3	4	5	6	7	8	9	10
The technicians respected my property and left it in good condition.	1	2	3	4	5	6	7	8	9	10
The technicians treated me with courtesy.	1	2	3	4	5	6	7	8	9	10
The technicians installed the promised items.	1	2	3	4	5	6	7	8	9	10
The technicians were knowledgeable about the products and answered my questions.	1	2	3	4	5	6	7	8	9	10
Overall, I am satisfied with the installed items.	1	2	3	4	5	6	7	8	9	10
The leave-behind materials are informative.	1	2	3	4	5	6	7	8	9	10
Comments:										



To learn more or to schedule an appointment, contact the Duke Energy Multifamily Energy Efficiency Program today!

Phone: 888.297.1671
Website: duke-energy.com/multifamily
Email: dukeenergymultifamilyesp@trankinenergy.com

Note that this program is administered by Trankin Energy, a contractor of Duke Energy, with experience in the installation of home energy saving products.

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Multifamily Energy Efficiency Program



We'll install free energy-saving products to help your tenants save and help you attract and retain them.



Start saving now with the latest **COMPLIMENTARY** energy-saving products.

If you are a Duke Energy electric customer, your tenants can receive the following energy-saving products - installed in each multifamily unit at no cost.



Compact fluorescent light (CFL) bulbs
Use up to 75 percent less energy and last up to 10 times longer than incandescent light bulbs. They also run cooler than incandescent bulbs, reducing energy loss. Each unit is eligible for up to 12 installed CFLs based on prequalification.



Bathroom and kitchen faucet aerators
Use up to 50 percent less water than traditional 2.2 gallons per minute (gpm) faucets, which can reduce water and sewer costs, as well as the amount of energy used to heat the water.*



Water-saving showerheads
Use up to 40 percent less water than traditional 2.5 gpm showerheads, which can reduce water and sewer costs, as well as the amount of energy used to heat the water.*



Hot water pipe wrap
Reduce water and energy use by preventing heat loss while hot water travels through your building's hot water pipes.*

*If water is heated by electricity, savings are not guaranteed.



Benefits to you

- Upgrade the efficiency of your buildings for less.
- Reduce maintenance costs and efforts.
- Improve tenants' satisfaction by helping them save energy and money.
- Attract and retain tenants by providing your energy-efficient products.

Get started today!

- Step 1: Call 888.297.1671 or email dukeenergymultifamilyesp@trankinenergy.com. Trankin Energy does not schedule an appointment for a complimentary energy assessment and installation of energy-saving products at no additional cost.
- Step 2: Receive your complimentary in-unit product installation and your property's energy assessment report.
- Step 3: Enjoy your energy savings!

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			
<i>\$ in millions, rounded</i>	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%
MWH²	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 notification¹ 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.

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.

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 Expenses¹

Non Residential Smart Saver Prescriptive			
<i><u>\$ in millions, rounded</u></i>	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.

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

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.

Non-Residential Smart \$aver Prescriptive

G. Appendix

Non Residential Smart Saver Energy Efficient Food Service Products¹

<i>\$ in millions, rounded</i>	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 Products¹

<i>\$ in millions, rounded</i>	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 Products¹

<i>\$ in millions, rounded</i>	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 Products¹

<i>\$ in millions, rounded</i>	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 ITEE¹

<i>\$ in millions, rounded</i>	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 Products¹

<i>\$ in millions, rounded</i>	Vintage 2014	Vintage 2014	% of Target
	As Filed	YTD December 31, 2014	
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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Mar 04 2015

Non-Residential Smart \$aver® Custom Assessment

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			
<u>\$ in millions, rounded</u>	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 incompleteness 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

Non-Residential Smart \$aver® Custom Assessment

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.

Non-Residential Smart Saver® Custom

A. Description

Duke Energy Carolinas, LLC's (the "Company's") Non-Residential Smart Saver® 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 Saver 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 Saver Prescriptive Program. Unlike the Non-Residential Smart Saver 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 Saver® Incentives (Business and Large Business tabs).

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

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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Mar 04 2015

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			
<i>\$ in millions, rounded</i>	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.

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).

Power Manager®

G. Appendix

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




A big thank you from us – and the environment.


©2014 Duke Energy Corporation. J49007-001A

Postcard
Standard
U.S. Postage
PAID
Duke Energy


Thanks!




You helped save an average of 158 megawatts of energy during last summer's Power Manager events.




That's enough energy to power nearly 57,000 homes.



And that's important when community energy demand reaches peak levels.



Because it means you're helping preserve natural resources and delaying the need for new power plants.



And that's why we're saying "Thanks for making a difference!"


We thank you for being part of Power Manager® – and the environment does too.

During times of unusually high energy demand, the program helps save energy by cycling off and on your air conditioner. In return, you receive credits on your summer bill.

Questions?
Visit duke-energy.com/power-manager or call 800.777.9898 for more information.

Event Hotline:
Call 800.832.3169 to see if a cycling event is underway.

If your Power Manager device is disconnected, damaged or removed: Call 888.463.5022 and we'll reconnect our device at no charge to you.



April 2014 Email



The best cure for tax time blues is Power Manager green.
Earn \$32 in bill credits every year.

Our Power Manager program pays you to reduce your energy use when demand for electricity is at its highest.

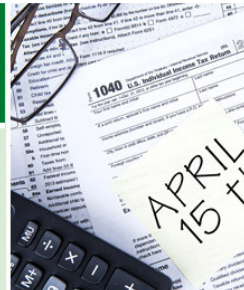
You'll get \$8 a month (July thru October), \$32 total for the summer.

Join now

How Power Manager works.

When you enroll we install a small device that can temporarily reduce how long your central air conditioning runs. Because we only use the device a few days each month, most people say they never even notice.

You'll help preserve the environment and keep electric costs low by reducing the demand for electricity and delaying the need for new power plants.



Power Manager

- Free program
- Easy savings
- Helps the environment







[Learn more about Power Manager](#)
Or call 888.463.5022

[Unsubscribe](#) | [Privacy Policy](#) | www.duke-energy.com

Duke Energy | 550 South Tryon Street | Charlotte, NC 28202

Share this on:
 

Power Manager®

October 2014 Email	Device Replacement Postcard
  <p>Why is your neighbor smiling?</p> <p>She uses Power Manager® from Duke Energy.</p> <p>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.</p> <p>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!</p> <p>So why not join your energy-saving neighbors? Learn more.</p> <p>Sign up now</p> <p>Or call 888.463.5022 to enroll by phone.</p> <p>Power Manager is making a difference.</p> <ul style="list-style-type: none">  157,000 Power Manager participants in the Carolinas  Saved 158 megawatts of electricity in 2013  That's enough to power 57,000 homes  And each of them gets \$32 off their summer electric bills <p>www.duke-energy.com/powermanager</p> <p><small>Update Your Subscriptions Unsubscribe Privacy Policy www.duke-energy.com</small></p> <p><small>Duke Energy 550 South Tryon Street Charlotte, NC 28202</small></p>	 <p>Important Information about Duke Energy's Power Manager® Program</p> <p>Thank you for participating in Power Manager® – a voluntary program that pays you for allowing Duke Energy to reduce your air conditioning runtime when electricity demand is especially high. Reducing electricity use during peak periods lessens our dependence on less efficient and more expensive power sources, resulting in savings to you and benefits to the environment.</p> <p>In the coming weeks, a technician from our partner GoodCents, will replace the Power Manager device near your air conditioning unit outside your home at</p> <p>By upgrading older devices, we are increasing the program's effectiveness. And like your old device, the new one is completely safe and does not harm your air conditioning unit. All work will be done outside your home and completed at no cost to you.</p> <p>In most cases, you do not need to be present. If your property has a locked fence or outdoor pets we need to know about, or you have questions, please contact us:</p> <p>Phone: 800-777-9898 select option 4</p> <p>To learn more about Power Manager, visit www.duke-energy.com/PowerManager. Thank you for making a difference.</p>

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Mar 04 2015

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			
<u>\$ in millions, rounded</u>	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			
<u>\$ in millions, rounded</u>	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.

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.

2013 EM&V Highlights

- 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.

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			
<i>\$ in millions, rounded</i>	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

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.

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			
<i>\$ in millions, rounded</i>	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.

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.

Smart Energy in Offices

G. Appendix



We're on a mission to save energy in the workplace.

Smart Energy in Offices (SEiO) is a free program from Duke Energy dedicated to helping reduce energy consumption in office buildings. By educating office workers about small, simple changes they can make to their daily routine—and encouraging and rewarding new habits—we can make a difference in our community.

It's easier than you'd think.

By adopting a team mindset and fostering ownership—two key elements in any successful work environment—SEiO makes it simple and fun for property managers, building operators, and tenants to minimize workplace energy use. Through the SEiO Engagement Manager and our online Smart Energy HQ resource, we'll help buildings and office teams do the following:

-  Access information about your building's real-time energy usage
-  Receive ongoing support from your SEiO Engagement Manager to establish goals and prioritize opportunities through an Energy Action Plan
-  Initiate action campaigns, games, and friendly competitions to motivate individuals to become Smart Energy Workers
-  Create opportunities for building engineers to focus attention on operational best practices

CONTACT AN SEiO ENGAGEMENT MANAGER:
info@smartenergyinoffices.com
800-428-4337

@DE_SMARTENERGY
smartenergyinoffices.com

Saving energy requires coordinating the efforts of a lot of stakeholders. We get that.

SEiO helps...

BUSINESS OWNERS

- Lower energy and operator costs
- Engage and coordinate a wide array of stakeholders within the building
- Work towards LEED certification
- Attract and retain environmentally conscious tenants

BUILDING OPERATORS

- Provide expert guidance to optimize building efficiency
- Develop and maintain an active forum to swap best practices among other building operators in your community

TEAM BUSINESSES & WORKERS

- Increase worker productivity and engagement
- Meet your company's sustainability goals
- Save energy through engaging energy challenges and competitions

What's the Game Plan?

SIGN UP
It's easy. Your SEiO Manager will help you register your building for participation.

DESIGNATE THE COACH
Identify the property manager or building operator who will coordinate SEiO Office Worker engagement campaigns and encourage tenant participation.

NOMINATE THE CAPTAINS
Use your existing green team leads, or identify new leaders, who can form teams and start generating savings in the office.

ENGAGE!
Complete energy challenges, share energy savings tips with fellow building operators on our Smart Energy HQ, and work with the broader community to save energy in offices.



Recognizing Energy Champions

Smart Energy Office Workers complete energy challenges and compete both as individuals and members of teams.

Building operators and property managers can lower operating costs, save energy, and advance through the program levels of achievement in the Smart Energy HQ.

Outstanding buildings and their occupants are recognized at an annual event.

CONTACT AN SEiO ENGAGEMENT MANAGER:
info@smartenergyinoffices.com
800-428-4337

@DE_SMARTENERGY
smartenergyinoffices.com



Reduce Your Building's Energy Costs.

The average office building wastes 30% of the energy it consumes*. We can help you lower your operating costs by providing expert guidance to optimize your building's energy efficiency. Our **Smart Energy In Offices** program will help you track your building's energy usage and provide tools to engage your tenants on small, simple changes they can make to their daily work routine.

Smart Energy in Offices, a free program offered by Duke Energy, puts the power to save energy in your hands, and helps you every step of the way. [Get in touch to find out more.](#)

*energystar.gov

www.smartenergyinoffices.com
info@smartenergyinoffices.com



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.

Executive Summary

Carolinas System Summary ¹			
<i>\$ in millions, rounded</i>	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			
<i>\$ in millions, rounded</i>	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			
<i>\$ in millions, rounded</i>	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

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.

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.

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		Filed in Docket E-7, Sub 1073		Overall Variance		E-7 Sub 1032	E-7 Sub 1073	Delta	Variance due to Change in Impacts and Measure Mix		Variance due to Change in Participation		Sum of Variances	
	kWh	kW	kWh	kW	kWh	kW	System Participation		Participation	kWh	kW	kWh	kW	kWh	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		Filed in Docket E-7, Sub 1073		Overall Variance		E-7 Sub 1032	E-7 Sub 1073	Delta	Variance due to Change in Impacts and Measure Mix		Variance due to Change in Participation		Sum of Variances	
	kWh	kW	kWh	kW	kWh	kW	System Participation		Participation	kWh	kW	kWh	kW	kWh	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 \$aver CFL Process and Impacts.pdf	3/1/2012
	E-7, Sub 1050	Exhibit A - Process and Impact Evaluation of Duke Energy's Residential Smart \$aver: 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 \$aver® 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 \$aver® 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 \$aver® Additional Measures Program in the Carolina System (December 10, 2014)	8/1/2012

Duke Energy Carolinas, LLC
List of Industrial and Commercial Customers that have opted-out
Docket Number E-7, Sub 1073

Barnes Exhibit 9 A

	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
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 FRIEDRICH & 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

Duke Energy Carolinas, LLC
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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
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
CERTAINTED 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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	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
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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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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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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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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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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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

Duke Energy Carolinas, LLC
List of Industrial and Commercial Customers that have opted-out
Docket Number E-7, Sub 1073

Barnes Exhibit 9 A

	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
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

Duke Energy Carolinas, LLC
List of Industrial and Commercial Customers that have opted-out
Docket Number E-7, Sub 1073

Barnes Exhibit 9 A

	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
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
WBTB 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

Duke Energy Carolinas, LLC
List of Customers that Opted out and subsequently Opt-in
Docket Number E-7, Sub 1073

Barnes Exhibit 9B

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

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

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

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

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

Barnes Exhibit 10

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

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

		<u>System</u>
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