# Analysis of the Duke Energy Demand-Side Management and Energy Efficiency Incentive Mechanism

Prepared by:

Prepared for:





Strategen Consulting, LLC | 2150 Allston Way, Suite 400 | Berkeley, CA 94704 +1 510 665 7811 | www.strategen.com

# Contents

1.	Introduction	3
2.	Recommendations	4
3.	The Duke DSM/EE Mechanism Results in North Carolina	5
4.	Savings Target	6
5.	The Duke DSM/EE Mechanism in North Carolina	8
5	5.1 Return on DSM/EE program costs	9
5	5.2 Net lost revenues	10
5	i.3 Portfolio Performance Incentive	12
6.	Cost Effectiveness Criteria	15
7.	Conclusions	17

# 1. Introduction

The North Carolina Utilities Commission ("Commission") recently filed an Order Requesting Comments on Duke Energy Progress' ("DEP") and Duke Energy Carolinas' ("DEC", together "Duke") demand-side management and energy efficiency performance incentive mechanism ("DSM and EE Mechanism"). The Commission is requesting comments on the following:

- Whether incentives in the Commission-approved Mechanism are producing significant DSM and EE results;
- ii. Whether the customer rate impacts from the DSM/EE rider are reasonable and appropriate;
- iii. Whether overall portfolio performance targets should be adopted; and
- iv. Any other relevant issues.

Strategen Consulting was retained by the North Carolina Attorney General's Office ("AGO") to conduct a technical evaluation of Duke's DSM and EE Mechanism. Strategen studied the mechanisms and compared Duke's achieved savings, incentives, and ratepayer impacts to those experienced in other states.

This memorandum outlines the current mechanisms used by DEC and DEP to recover program costs and incentives for Energy Efficiency and Demand-Side Management Programs. The memorandum discusses three areas of concern:

First, Duke does not have a DSM/EE savings target. Savings targets are a critical component of a holistic DSM/EE mechanism.

Second, multiple tools are used in the DSM/EE mechanism to compensate Duke for costs of DSM/EE programs and to provide incentives for Duke to offer such programs. The multiple layers of compensation and generous component design add up to create an overly costly mechanism. The DSM/EE mechanism needs to be tailored so that the incentives are better aligned with performance. By setting targets and rewarding Duke when high-performance is achieved, the incentives would be more cost effective for ratepayers.

Third, the cost-effectiveness tests that are used to evaluate DSM/EE programs should be updated so that the avoided costs used in the evaluations account for the time value of energy

efficiency, as opposed to focusing on summer peaks. In addition, the Commission should create a cost-effectiveness test that accounts for the costs associated with fossil-fuel emissions for informational purposes.

# 2. Recommendations

Strategen makes the following recommendations to the Commission:

#### **Savings Target**

• The Commission should set an explicit savings target. The savings target could be informed by a DSM/EE potential study or informed by comparable states savings targets. Based on Strategen's analysis a retail sales performance target with the trajectory shown below would be reasonable.<sup>1</sup>

	2021	2022	2023
Duke Energy Carolinas	1.40%	1.70%	2.00%
Duke Energy Progress	1.20%	1.60%	2.00%

#### **DUKE DSM/EE MECHANISM**

 Given that Duke is generously compensated by the Net Lost Revenues recovered under the mechanism, the Commission should consider restructuring the financial incentive to better align utility compensation with performance. Specifically, the Commission should consider changing the threshold point where savings begin to be shared with the utility. For example, the utility should only begin to share in savings once it has achieved or reached a threshold of 75% of the savings target.

<sup>&</sup>lt;sup>1</sup> As in the targets for the Renewable Energy and Energy Efficiency Portfolio Standard, the target could be based on the incremental savings percentage relative to the utility's prior year's system retail electricity sales.

#### **COST-EFFECTIVENESS TESTS**

- The Commission should improve the current methodologies used to calculate the Utilities Cost Test ("UCT") and Total Resource Cost ("TRC") test.
  - Specifically, the Commission should require Duke to improve avoided cost calculations by more granularly accounting for the time value of energy efficiency.
- The Commission should create a cost-effectiveness test that incorporates the estimated cost of emissions for informational purposes.

# 3. The Duke DSM/EE Mechanism Results in North Carolina

According to Duke, in 2018 Duke Energy Carolinas ("DEC") achieved incremental energy savings of 1.33% of its retail sales, while Duke Energy Progress ("DEP") achieved 0.91%.<sup>2</sup> Duke reported the historical savings of DSM/EE mechanisms as shown below.

	2015	2016	2017	2018
Duke Energy Carolinas	0.87%	1.16%	1.40%	1.33%
Duke Energy Progress	1.08%	1.02%	1.02%	0.91%

Based on these reported savings levels, DEC's DSM/EE programs appear to be providing significant results (i.e. above average) when compared to other utility's and state-level energy savings metrics.<sup>3</sup> However, DEP's DSM/EE programs appear to perform at an average level when compared to the same metric.<sup>4</sup>

<sup>&</sup>lt;sup>2</sup> The incremental energy savings in 2018 and historical savings from the DSM/EE mechanisms were reported in response to Public Staff Data Request 2-6.

<sup>&</sup>lt;sup>3</sup> See Relf et al., 2017. The 2017 Utility Energy Efficiency Scorecard. Available at <a href="https://aceee.org/research-report/u1707">https://aceee.org/research-report/u1707</a> See also Berg et al., 2018. The State Energy Efficiency Scorecard. Available at <a href="https://aceee.org/research-report/u1808">https://aceee.org/research-report/u1808</a> Note that ACEEE has Duke NC saving significantly lower than those reported by the Company. At least part of the difference is explained by the net to gross factor that ACEEE applies to the energy savings estimates reported by Duke.

<sup>4</sup> Id.

As indicated in the Commission's request for comment in this docket, results, in the form of annual savings, are an important component of the DSM/EE mechanism review. While Duke is achieving average or above-average results, there are multiple components of the DSM/EE mechanism that must be analyzed in concert to determine whether the results are reasonable. The following sections assess other components of the DSM/EE mechanism to determine whether the results being achieved by Duke are reasonable given the incentives and regulatory treatments approved by the Commission.

# 4. Savings Target

Savings targets may be the single most influential component of DSM/EE mechanisms.<sup>5</sup> Duke does not have to meet an explicit energy savings target.

Savings targets are important for at least two reasons. First, a savings target helps define performance and informs overall mechanism design. The purpose of creating a financial performance incentive is to reward high achievement. Without a savings target to demarcate good or high achievement, the DSM/EE mechanism lacks clarity and does not provide a benchmark from which it may be designed.

Second, a savings target holds the utility accountable. Failing to meet a Commission's explicit target may reflect poor responsiveness to public policy goals. How Duke is perceived by the public is important to the Company. For this reason alone, a savings target should lead to better performance from the utility.

Savings targets can be set based on a number of factors. One factor that can inform a savings target is a potential study. Potential studies investigate the market size, as well as the technical and economic potential of feasible DSM/EE measures in a region.<sup>6</sup> Savings targets can also be

<sup>&</sup>lt;sup>5</sup> Nowak et al. 2015. Beyond Carrots for Utilities: A National Review of Performance Incentives for Energy Efficiency. Available at https://aceee.org/research-report/u1504

<sup>&</sup>lt;sup>6</sup> Duke had a DSM/EE potential study conducted in 2016, according to AGO Information Response 3-1. Given that the study is three years old, an updated study should be used to inform any future savings targets.

informed by what other states have committed to and been able to achieve. According to the 2018 ACEEE scorecard, there are states with aggressive targets higher than 2.5% (MA, RI, AZ), seven states have savings targets higher than or equal to 2%, while 14 states have set targets below 2% but higher or equal to 1%.<sup>7</sup> A qualitative assessment of states' targets indicates that 1% targets appear to be low bars, with 1.5% being moderate, and over 2% being more aggressive.

While Duke does not have to meet an explicit savings target, it does have to comply with the Renewable Energy and Energy Efficiency Resource Standard ("REPS"). REPs require utilities to meet an increasing amount of their customers' retail sales needs by a combination of renewable energy resources and reduced energy consumption. REPS may function in some similar ways to an Energy Efficiency Resource Standard ("EERS"), as it allows energy efficiency and conservation measures to meet renewable targets, but differs in a very important way: it does not set a minimum required level for DSM/EE. Thus, the REPS may not be as effective in encouraging cost-effective energy conservation as a more direct DSM/EE requirement. Furthermore, under the NCUC's final rules, there are no specified penalties or alternative payments for noncompliance.

**Strategen recommends** that the Commission set an explicit savings target based on retail sales as defined in N.C.G.S. § 62-133.9. The savings target could be informed by a DSM/EE potential study or informed by comparable states savings targets. Based on other comparable states and previous DSM/EE results, the savings target trajectory displayed below is reasonable for DEC and DEP. <sup>8</sup>

	2021	2022	2023
Duke Energy Carolinas	1.40%	1.70%	2.00%
Duke Energy Progress	1.20%	1.60%	2.00%

<sup>&</sup>lt;sup>7</sup> ACEEE 2018 State Energy Efficiency Scorecard.

<sup>&</sup>lt;sup>8</sup> As in the targets for the Renewable Energy and Energy Efficiency Portfolio Standard, the target could be based on the incremental savings percentage relative to the utility's prior year's system retail electricity sales.

# 5. The Duke DSM/EE Mechanism in North Carolina

Duke's approved DSM/EE mechanism has multiple components that work in conjunction to provide cost recovery, recover lost revenues, and reward the utility with other incentives for administering DSM/EE programs. Each component is intended to enable efficient DSM/EE program administration and procurement—balancing costs and benefits for ratepayers.

First, Duke recovers all reasonable and prudent costs incurred for adopting and implementing DSM/EE Measures, and capitalizes and earns a rate of return on all or a portion of program-related costs. The Company's cost recovery measure is intended to reduce any burden placed on it for administering DSM/EE programs and reduce regulatory lag, while allowing a return on expenses provides the utility an incentive to invest in DSM/EE programs.

Second, Duke can recover lost revenues associated with the savings associated with implementation of the DSM or EE measures through a Net Lost Revenues adjustment. The Net Lost Revenues adjustment is intended to make the utility whole from a revenue requirement standpoint, at least for the first 36 months after a measure takes effect.

Third, Duke is provided a financial performance incentive, referred to as the Portfolio Performance Incentive or "PPI". The Portfolio Performance Incentive is a shared savings-based incentive mechanism that shares 11.5% of net benefits with DEC and 11.75% with DEP. The Portfolio Performance Incentive is intended to reward the utility for high performance.

Together the above DSM/EE components are intended to create a regulatory mechanism that balances the cost and benefits of DSM and EE for ratepayers. This section briefly describes each of the DSM/EE mechanism components to provide context around the multiple ways in which Duke is made whole or benefits from administering DSM and EE programs. Strategen's analysis within this section demonstrates that the financial incentives, in concert with the Net Lost Revenues adjustment, are excessive and should be altered in order to bring DSM and EE program administration costs into balance with the costs and benefits provided to ratepayers.

Docket No. E-7, Sub 1032 Docket No. E-2, Sub 931

## 5.1 Return on DSM/EE program costs

Duke is allowed to recover all reasonable and prudent DSM/EE program costs through a rate rider. Allowing Duke to recover reasonable program costs is non-controversial.

Duke is also permitted by statute to capitalize costs to the extent the costs are intended to produce future benefits. DEP's capitalization of O&M and A&G expenses appears to have created a financial incentive, in the form of carrying costs, of between \$10-15 million each year from 2015 to 2018. This represents a financial incentive of over half of the Portfolio Performance Incentive collected in each of these years for DEP.

Allowing a return on O&M and A&G costs is not allowed under traditional cost of service regulation. Doing so creates a financial incentive for the utility to invest in DSM/EE by placing these demand-side expenses on a similar footing as supply infrastructure investments. This should, in effect, reduce the need for a financial performance incentive mechanism. Duke, however, has an additional performance incentive mechanism, the Portfolio Performance Incentive, which is based on shared savings and is discussed in a later section.

Importantly, allowing a return on O&M and A&G expenses in combination with an additional performance incentive is not common practice. When asked, Duke could not provide a single example of another utility that is allowed to earn a return on A&G expenses.<sup>11</sup> Notably, Duke utilities outside of the Carolinas are not allowed to both earn a return on expenses and collect a financial incentive.<sup>12</sup>

Strategen recommends that the Commission consider the magnitude of the financial incentive that DEP and DEC receive through the capitalization of O&M and A&G expenses when considering changes to the Portfolio Performance Incentive.

<sup>&</sup>lt;sup>9</sup> See N.C. G.S. § 62-133.9(d)(1).

<sup>&</sup>lt;sup>10</sup> See Duke's response to information request AGO 3-10 (Attachment 1). The \$10-15 million includes both carrying costs net of taxes and income taxes on carrying costs.

<sup>&</sup>lt;sup>11</sup> See Duke's response to information request AGO 3-5 (Attachment 2).

<sup>&</sup>lt;sup>12</sup> See Duke's response to information request PSDR 2-1, 2-2, 2-3, and 2-4 (Attachment 3).

#### 5.2 Net lost revenues

Duke is allowed to earn revenues lost due to the implementation of DSM/EE investments through the Net Lost Revenues adjustment. Net Lost Revenues reflect the collection of already authorized utility system fixed costs; this collection is meant to bring the utility back in line with its revenue requirement. For this reason, Net Lost Revenues are calculated based on the portion of Duke's retail tariff rates that represent the recovery of fixed costs. Electricity sales reductions that result from an approved measurement unit installed in a Vintage Year are eligible for use in calculating Net Lost Revenues for recovery only for the first 36 months after the installation of the unit. Figures 1 and 2 display the Net Lost Revenues for years 2015-2019 for vintage years starting in 2015.

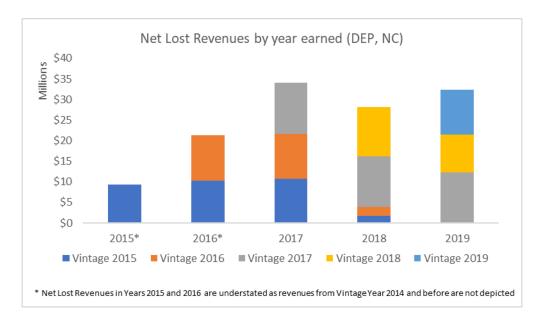


Figure 1: Net Lost Revenues by year earned (DEP, NC)<sup>13</sup>

<sup>&</sup>lt;sup>13</sup> Docket Number E-2, Sub 1174, Evans Exhibit 2 (Attachment 4).

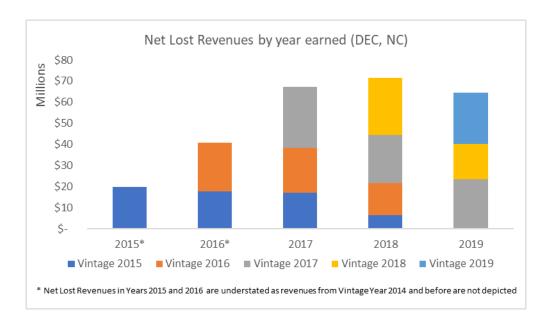


Figure 2: Net Lost Revenues by year earned (DEC, NC)<sup>14</sup>

Figure 2 above indicates that Net Lost Revenues have been as high as over \$80 million per year. This is almost 1.5 times the magnitude of the Portfolio Performance Incentive, discussed below.

Net Lost Revenues have been criticized by regulators and research bodies as being extremely complex.<sup>15</sup> The complexity stems from the EM&V calculations that are used to estimate the impact of DSM/EE programs. These EM&V calculations have numerous assumptions that can be subjective, and research has demonstrated that the methodologies vary significantly from state to state. <sup>16</sup> Given the complexity and scope associated with the Net Lost Revenue EM&V calculations, Strategen did not conduct an in-depth analysis of this component of the DSM/EE mechanism. However, the magnitude of the Net Lost Revenue adjustments alone demonstrates the importance of the calculation and the cost of making Duke whole as compensation for administering DSM and EE programs.

<sup>&</sup>lt;sup>14</sup> Docket Number E-7, Sub 1192, Evans Exhibit 2 (Attachment 5).

<sup>&</sup>lt;sup>15</sup> See Gilleo at al., 2015. Valuing Efficiency: A Review of Lost Revenue Adjustment Mechanisms. Available at <a href="https://aceee.org/sites/default/files/publications/researchreports/u1503.pdf">https://aceee.org/sites/default/files/publications/researchreports/u1503.pdf</a> See also New Hampshire Public Utilities Commission Docket No. DG 17-048.
<sup>16</sup> Id.

Docket No. E-2, Sub 931

## 5.3 Portfolio Performance Incentive

Duke's Performance Incentive is based on the sharing of avoided cost savings (i.e., the reduction in generation, transmission, and distribution costs), net of program costs, achieved by those DSM and EE Programs in the aggregate. As the incentive, DEC keeps 11.5% of the net benefits and DEP keeps 11.75%. The net benefits are calculated based on the Utility Cost Test ("UCT") methodology, which compares the DSM/EE program costs incurred by the utility to the avoided supply-side resources costs. The incentive is calculated at the year of approval and converted into a stream of no more than 10 levelized annual payments that the utility receives in subsequent years. Duke is not allowed to accrue a return on the incentive.

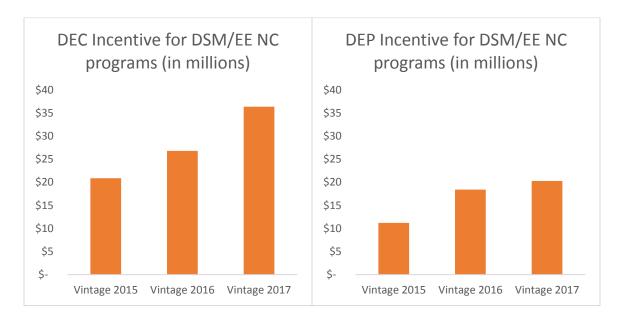


Figure 3: Incentive Payment to DEP/DEC per vintage year

Shared savings is an incentive tool that is used in other states besides NC. However, the design of the shared savings mechanism differs from state to state. At a high-level, shared savings mechanisms differ by the amount of net benefits shared, how net benefits are calculated, and at what threshold savings begin to be shared.

The percentage of net benefits that are shared impacts the magnitude of the incentive paid. Shared savings mechanisms can share a constant percentage of net benefits or create a tiered structure that shares different percentages at different levels of savings.

Shared savings mechanisms also vary by the threshold level at which savings are shared with the utility. Varying the threshold at which savings are shared is another way that can impact the overall financial incentive that is paid out through a shared savings mechanism, depending on utility performance.

Duke's Ohio shared savings mechanism differs in both respects; i.e., both as to the percentage of net benefits shared and as to the threshold at which savings are shared. In Ohio, Duke does not begin to share net benefits until it reaches the required 1% annual savings target—representing a 1% threshold. After it reaches the 1% threshold, a tiered shared savings mechanism is triggered, and the percentage of shared net benefits increases from 6% to 12% depending on the total savings level. Another example is Arkansas. Utilities in Arkansas must reach a threshold of 80% of the annual savings target before they begin to share in net benefits, after which they are rewarded 10% until a cap is reached.

Comparing the structure of Duke's shared savings mechanism to other states demonstrates that the North Carolina DSM/EE is designed to provide generous incentives. First, Duke receives a high percentage of net savings. Out of the 12 states that reported a mechanism based on shared net benefits in a survey completed by ACEEE, only Kentucky, Minnesota, and Oklahoma reported shared saving percentages higher than North Carolina. Seven states (AR, AZ, CO, GA, MO, OH, TX) reported significantly lower percentages ranging from 1% to 10%, with many states reporting on the lower end. Sharing a higher percentage of savings increases the cost to ratepayers, all else constant, and therefore needs to be balanced with other DSM/EE components design and ultimate impact on performance.

Second, the threshold at which Duke begins to share net savings is low—a zero percent threshold. The zero percent threshold is in contrast with other states, such as Arkansas, Minnesota, and Ohio, all with somewhat similar DSM/EE mechanisms.<sup>21</sup> Sharing net benefits for all the savings that are generated suggests that Duke is immediately performing above what should be expected. This does not align with best practices related to designing the

<sup>&</sup>lt;sup>17</sup> See Duke's response to information request PSDR2-4 (see Attachment 3).

<sup>&</sup>lt;sup>18</sup> See Arkansas Public Service Commission Docket No. 08-137-U.

<sup>&</sup>lt;sup>19</sup> Nowak et al, <u>Beyond Carrots for Utilities: A National Review of Performance Incentives for Energy Efficiency</u>, ACEEE, 2015 at 11.

<sup>&</sup>lt;sup>20</sup> <u>Id.</u>

<sup>&</sup>lt;sup>21</sup> See MN PUC Docket No. 08-133, AR Docket No. 08-137-U, and OH Docket No. 08-920-EL-SSO.

performance incentive mechanism. Best practices would suggest setting a realistic target and providing a reward once the utility's performance is "good" or "above average," not immediately.<sup>22</sup>

The combination of a high percentage of shared net benefits with a low threshold to begin sharing savings is contributing to an outsized Portfolio Performance Incentive payment to Duke. Figure 2 shows the incentive that DEP would receive in other states for achieving the same savings and having a sharing threshold of zero percent in 2017.<sup>23</sup>

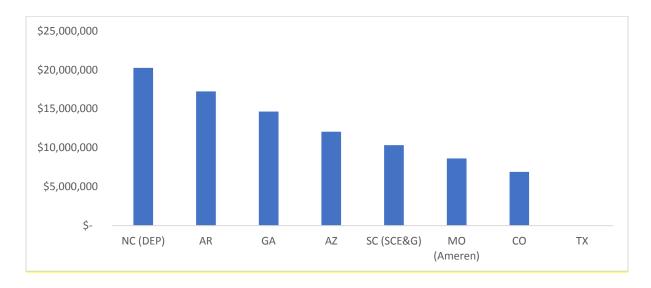


Figure 2: The Portfolio Performance Incentive received by DEP in 2017 compared to representative mechanisms from other states that also implement a shared net benefits incentive structure

Additionally, DEP is also allowed to earn a bonus incentive of \$400,000 once it has achieved a 1% savings target.<sup>24</sup> The bonus incentive is insignificant compared to other incentives. It is also designed poorly, given that it is based on a point estimate. The bonus incentive should be removed to simplify the Portfolio Performance Incentive.

**Strategen recommends** that the Commission should consider changing the threshold point where savings begin to be shared with the utility so that it is set at 75% of the savings target.

<sup>&</sup>lt;sup>22</sup> See <a href="https://www.synapse-energy.com/sites/default/files/Utility%20Performance%20Incentive%20Mechanisms%2014-098">https://www.synapse-energy.com/sites/default/files/Utility%20Performance%20Incentive%20Mechanisms%2014-098</a> 0.pdf

<sup>&</sup>lt;sup>23</sup> Incentive percentages informed by Table 1 in Id. at 11.

<sup>&</sup>lt;sup>24</sup> DEC's opportunity to receive a bonus incentive expired in 2018.

# 6. Cost Effectiveness Criteria

DSM/EE mechanisms typically utilize cost-effectiveness tests to determine program and/or portfolio eligibility criteria. Cost-effectiveness tests include the Total Resource Cost ("TRC") test, Utility Cost Test ("UCT"), Participant Cost Test ("PCT"), Societal Cost Test ("SCT"), Ratepayer Impact Measure ("RIM"), and others. Each test calculates costs or savings taking a different perspective, while some tests account also for non- energy impacts (environmental, health, economic). The incentive mechanism is ultimately meant to promote the interests of the ratepayers, while achieving state policy goals. It is important that the determination of the eligibility of any single measure reflects cost-effective resource procurement in line with state policy goals. The way to achieve this is by conducting the appropriate cost tests and weighing the results of each test appropriately.

Duke uses the UCT and TRC tests to evaluate DSM/EE program cost effectiveness. More specifically, with the exception of Low-Income Programs or other programs explicitly identified at the time a new measure is proposed, all Programs are evaluated with the goal of having a program level UCT and TRC greater than 1.00. The benefits for both tests are the avoided supply costs (i.e., the reduction in generation capacity costs, transmission and distribution capacity costs, and energy costs), valued at marginal cost for the periods when there is a load reduction. The costs for the UCT are the net program or portfolio costs incurred by the utility and the increased supply costs for any period in which load is increased. Utility costs include initial and annual costs, such as the cost of utility equipment, O&M, installation, program or portfolio administration, incentives paid to or on behalf of participants, and participant dropout and removal of equipment (less salvage value). On the other hand, the costs for the TRC test are the utility costs and the incremental costs paid by the participants, plus the increased supply costs for any periods in which load is increased. All costs, no matter who pays for them, are included in this test.

In general, the UCT and TRC are used in an acceptable manner by Duke. However, there are multiple assumptions that go into cost-effective tests that need to be carefully examined. Strategen will discuss three issues with the current evaluation of cost-effectiveness for Duke's DSM/EE programs.

One of the primary issues are the avoided cost calculations used within the cost-effectiveness tests. Duke appears to utilize avoided energy, capacity, and transmission and distribution cost calculations that only factor in summer peaks.<sup>25</sup> The focus on summer peaks within Duke's EE incentive mechanisms is not consistent with its focus on winter peaks within its Integrated Resource Plans ("IRP").<sup>26</sup> In Duke's IRP, it made the argument that its winter peak was becoming increasingly important for system planning purposes. However, the cost-effectiveness of its DSM/EE programs is being informed by summer peaks and the cost of building a gas combustion turbine.<sup>27</sup>

The Commission should require Duke to revise the avoided cost calculations used for costeffectiveness tests to more accurately reflect the time value of energy efficiency. While a
combustion turbine can serve both winter and summer peaks, the DSM/EE load shape could be
different depending on which peak is used. Having an avoided cost that better reflects the time
value of efficiency would value energy efficiency measures in a more detailed way. For
example, looking at the energy and capacity benefits throughout the year as opposed to an
over-emphasis on discrete summer peaks would likely result in better resource procurement.

A second concern is process related. Duke continues to calculate the RIM test for informative purposes. The RIM test is typically used to inform impacts on non-participants through a rate impact calculation. However, the RIM test has many flaws. Specifically, it includes sunk costs within the calculation, which are irrelevant to future investment decisions, and may not take into consideration that DSM and EE can offset future capital investments.<sup>28</sup> For example, a hypothetical measure that removed efficient LED lighting and replaced it with inefficient incandescent lighting would likely pass the RIM test, despite being contrary to customer and societal goals. The RIM test is not useful as the sole or primary indicator of cost-effectiveness for EE programs and therefore should not be used as a screening test. The Commission could continue to utilize the RIM test as an indicator to inform DSM/EE program impacts, but it should be considered with caution.

<sup>&</sup>lt;sup>25</sup> See Duke's response to information request PSDR2-8 (Attachment 6).

<sup>&</sup>lt;sup>26</sup> See Duke's response to information request PSDR2-8 (Attachment 6).

<sup>&</sup>lt;sup>27</sup> See Duke's response to information request PSDR2-8 (Attachment 6).

<sup>&</sup>lt;sup>28</sup> See National Standard Practice Manual. Available at <a href="https://nationalefficiencyscreening.org/national-standard-practice-manual/">https://nationalefficiencyscreening.org/national-standard-practice-manual/</a>

Finally, the Commission does not consider any cost-effectiveness tests that include the cost of emissions. Given that Duke incorporates emissions costs within its IRP, incorporating a cost-effectiveness test, such as a societal cost test, for informational purposes within DSM/EE programs would provide consistency. One of the primary goals of designing the DSM/EE mechanism is to evaluate resources on a level playing field. Without considering emissions within the cost-effectiveness tests, the Commission is leaving out important information that could lead to procuring more cost-effective DSM and EE.

**Strategen recommends** that the Commission should require Duke to improve the avoided cost calculation used when evaluating the cost effectiveness of measures by more granularly accounting for the time value of energy efficiency. Additionally, the Commission should consider utilizing a cost-effectiveness test that incorporates the cost of emissions for informational purposes.

# 7. Conclusions

Strategen's analysis of Duke's DSM/EE mechanism indicates that there are duplicative financial incentives including high levels of shared net benefits, with the result that costs are comparatively high for ratepayers. Consequently, a few critical modifications to the mechanisms are recommended so that the incentives provided to Duke are more appropriately aligned with performance.

Strategen makes the following recommendations to the Commission:

#### **Savings Target**

 The Commission should set an explicit savings target. The savings target could be informed by a DSM/EE potential study or informed by comparable states savings targets.

• Based on Strategen's analysis, a retail sales performance target with the trajectory identified below would be reasonable.

	2021	2022	2023
Duke Energy Carolinas	1.40%	1.70%	2.00%
Duke Energy Progress	1.20%	1.60%	2.00%

#### **DUKE DSM/EE MECHANISM**

• Given that Duke is generously compensated by the Net Lost Revenue mechanism regardless of EE/DSM performance, the Commission should consider restructuring the financial incentive to better align utility compensation with performance. Specifically, the Commission should consider changing the threshold point where savings begin to be shared with the utility. For example, the utility should only begin to share in savings once it has achieved or reached a threshold of 75% of the savings target.

#### **COST-EFFECTIVENESS TESTS**

- The Commission should improve the current methodologies used to calculate the Utilities
   Cost Test ("UCT") and Total Resource Cost ("TRC") test.
  - Specifically, the Commission should require Duke to improve avoided cost calculations by more granularly accounting for the time value of energy efficiency.
- The Commission should create a cost-effectiveness test that incorporates the estimated cost of emissions for informational purposes.



### **About Strategen**

Strategen is an internationally recognized, mission-driven, professional services firm focused on energy sector market transformation for a low carbon grid. Our multidisciplinary team specializes in work with policymakers and regulators, utilities, and unregulated market participants on issues related to zero carbon grid technologies such as energy storage, solar, wind, electric vehicles, demand response and energy efficiency. Our functional expertise includes technical analysis, economic analysis, regulatory thought leadership, and corporate strategy, as well as ability to leverage our thought leadership platform in ways that motivate and empower local leadership and change.



# Ron Nelson Manager



+1 (510) 679-1976 | rnelson@strategen.com

#### Education

BA, Environmental Economics, Western Washington University, 2011

MS, Agricultural and Resource Economics, Colorado State University, 2013

### **Domain Expertise**

Regulatory Strategy

Rate Design

Performance-Based Regulation

Performance Incentive Mechanisms

Cost of Service Analysis

**DER Compensation** 

Rate Case Support

Electric Vehicles

Renewable Energy Program Design

## **Expert Testimony**

Oklahoma Gas & Electric, Formula Rates and Rate Design, Docket No. 201800140

Public Service Company of Oklahoma, Rate Design and Performance-Based Regulation, Docket No. 201800096

Veteran Energy Delivery of Ohio, CCOS and Rate Design, Docket No. 18-0298-GA-AIR

#### Professional Bio

Ron is a Manager in the Government and Utility Practice at Strategen. He works with clients to improve regulatory structures in order to more efficiently achieve public policy goals, such as transitioning the power system to clean energy. Additionally, Ron provides expert testimony on numerous topics including multi-year rate plans, performance incentive mechanisms, cost of service modeling, residential and commercial rate design, renewable energy program design, and electric vehicle policy.

Prior to Joining Strategen, Ron worked as an Economist for the Minnesota Attorney General's Office for five years. He has also worked as an economic researcher for two universities and the United States Geological Survey.

Ron earned a Bachelor of Arts and Minor from Western Washington University in Environmental Economics and Mathematics, respectively, and a Master of Science in Resource Economics from Colorado State University.

## **Speaking Engagements**

National Association of State Utility Consumer Advocates Annual Meeting, Orlando, FL, "Grid Mod Strategies for Consumer Advocates", 2018

PBR Technical Workshop I for the Hawai'i Public Utilities Commission, Honolulu, Hawai'i, "PBR Lessons from Minnesota", 2018

National Association of State Utility Consumer Advocates Mid-Year Meeting, Minneapolis, MN, "Methodologies for Calculating an Appropriate Customer Charge", 2018

### **Previous Experience**

#### **Economist**

Minnesota Attorney General's Office – St. Paul, MN July 2013 – December 2017



# Edward Burgess Director



+1 (941) 266-0017 | eburgess@strategen.com

#### Education

BA, Chemistry, Princeton University, 2007

PSM, Solar Energy Engineering and Commercialization, Arizona State University, 2007

## Domain Expertise

Management Consulting

Rate Design

Tech-to-Market Strategy

Energy Policy & Regulatory Strategy

**Energy Product Development** 

Stakeholder Engagement

#### **Publications**

"Are Recent Forays into Restructuring a Threat to Energy Efficiency?", American Council for an Energy Efficiency Economy (ACEEE), 2014

"Performance Based Models to Address Regulatory Challenges", The Electricity Journal, 2014

"High-Speed Rail and Reducing Oil Dependence", Transport Beyond Oil, Island Press, 2013

"Transmission and Renewable Energy Planning in California," Western Governors Association, 2012

#### **Professional Bio**

Ed helps to lead the Utility and Government consulting practices at Strategen. He specializes in evaluation and design of policies and programs to advance deployment distributed energy resources, demand-side management programs, energy storage and grid integration of renewable energy. Ed has served clients in the renewable energy, energy efficiency, and energy storage industries, including consumer advocates, public interest organizations, Fortune companies, energy project developers, associations, utilities, government agencies, universities and foundations. His analysis has given companies strategic insight into clean energy investment opportunities and has helped to guide regulations and policies in many states across the country.

Prior to joining Strategen, Ed worked as an independent consultant where he provided technical analysis to a law firm in Arizona, supporting the firm's clients in cases before the Arizona Corporation Commission. He also worked to provide technical analysis on demand-side management policies in Michigan, Illinois, Pennsylvania and several other states.

Ed earned his bachelor's degree in Chemistry from Princeton University and two degrees from Arizona State University - Master of Science (M.S.) in Sustainability and Professional Science Master (P.S.M.) of Solar Energy Engineering and Commercialization.

# **Previous Experience**

#### Consultant

Kris Mayes Law Firm – Phoenix, AZ June 2012 – March 2015

#### Senior Consultant

Schlegel & Associates – Phoenix, AZ November 2012 – March 2015

Project Manager & Researcher
21
Arizona State University – Temple, AZ
June 2012 – March 2015

Attorney General's Office DSM/EE Mechanism Review Data Request No. 3 Docket No. E-7, Sub 1032 Docket No. E-2, Sub 931 Item No. 3-10 Page 1 of 2

#### **DUKE ENERGY CAROLINAS, LLC and DUKE ENERGY PROGRESS, LLC**

#### **Request:**

Please provide a spreadsheet with all actual DEP and DEC EE and DSM Program revenues and costs for all years available. Further, provide a breakout of revenues into PPI revenues, NLR, Program and common cost recovery, return on program expenses, and bonus payment for all years for which the data is available. Where applicable, please provide your answer in a live Excel spreadsheet with all links and formula intact.

#### **Response:**

For DEC, please see attached Excel file "DEC AG 3-10" for a breakdown of the revenue requirement for Vintage 2014 through estimated Vintage 2020. Miller Exhibit 2 page 1A shows the cumulative total for Vintage 2014 in column M broken down by program cost, earned utility incentives (or PPI), lost revenue and return. The remainder of the years is shown in Miller Exhibit 2 pages 1-6. Total revenue received offsets the revenue requirement. Please note that revenues collected are not tracked at the component level. A total over/under collected calculation is performed to determine if interest needs to be calculated and then if so, an estimate based on percentages is used to allocate revenues. This can be different each year. As such, the best and most useful information the Company can provide is total revenues to calculate the total revenue requirement.



For DEP, please see attached Excel file "DEP AG 3-10". There is a tab for each year, which breaks out revenue requirement by program. There is a column for lost revenues, PPI, DSDR costs, carrying costs and amortizations. These amounts can be subject to true-up in following years if EM&V reports are received; however, these changes are very small and

Attorney General's Office DSM/EE Mechanism Review Data Request No. 3 Docket No. E-7, Sub 1032 Docket No. E-2, Sub 931 Item No. 3-10 Page 2 of 2

therefore, the Company did not attempt to incorporate them in this type of schedule. There is also a separate tab that breaks out the amount of revenue collected for that test year period. Prior to filing year 2016, interest was only calculated on over-recovered balances at a total level, therefore revenues were never estimated to be broken out. As of filing year 2016, an estimate of revenue collections by type was calculated to determine if there is an over or under-recovery for interest calculation purposes. All amounts provided are best estimates available.



Revised Supplemental Direct Miller Exhibit 2 page 6 of 7

#### DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1108 EMF Period Revenue Requirement Summary - NC Level January 2015 - December 2015

		igala in a				(f. 1ste			THE STREET	. : ]			100 F	<u> </u>		733.45		
						77		201	DCDD Cook	Income Taxes	DSDR Property	DSDR	Carrying Costs	Income Taxes	Rev Regmt Before PPI &	Net Lost Revenue	Program Performance	Rev Regmt With
				A&G	Capitalized O&M and A&G	Amortization of Capitalized O&M	Amortization of	Amortization	DSDR Capital Costs	on DSDR Capital Costs	Taxes	Depreciation	Net of Taxes	Cost	NLR	Recoupment	Incentive	PPI & NLR
		O&M (1)	Insurance (2)	Expense (3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
		(4)	(2)	15/	ΣCols(1)thru(3)	((1)+(2))/10	(3)/3	(7)	(9)	(-/	17	,,	, ,	, ,	ΣCols(5)thru(13)			ΣCols(14)thru(16)
NC DSM Program Expenses									I A company common state and a party	operators and restriction from \$1000	Parallel of the control of the section of	ero erroteanamentotor	*					
1 CIG DR	Per Books	1,634,787			1,634,787	163,479	-	624,646			2		-	*	788,125		150,959	939,084
<ol> <li>EnergyWise</li> </ol>	Per Books	10,510,327			10,510,327	1,051,033	-	4,746,764					-	-	5,797,797		3,243,985	9,041,782
3 EnergyWise for Business		56,307			56,307	18,769							<u> </u>		18,769	12	<del></del>	18,781
4 Total DSM	Σ Lines 1 thru 2	12,201,421			12,201,421	1,233,281	-	5,371,410					-		6,604,691	12	3,394,944	9,999,647
5 DSM Assigned A&G and CCost	Per Books			1,175,218	1,175,218		391,739	493,628				e status C. John	1,805,983	797,582	3,488,932			3,488,932
6 Total DSM and Assigned Costs	Σ Lines 4 thru 5	12,201,421		1,175,218	13,376,639	1,233,281	391,739	5,865,037					1,805,983	797,582	10,093,623	12	3,394,944	13,488,578
NC EE Program Expenses												•						
7 Residential Home Advantage	Per Books				-	-	-	415,195						-	415,195	4,374	176,476	596,045
8 Home Energy Improvem't	Per Books	4,516,545			4,516,545	451,655		2,826,174					-	•	3,277,829	684,594	350,078	4,312,501
9 Neighborhood Energy Saver	Per Books	1,352,367			1,352,367	135,237		859,024					-	-	994,261	212,425	-	1,206,686
10 Solar Hot Water Pilot	Per Books	-			-	-		39,343					-	-	39,343		-	39,343
11 EE Lighting (Res)*	Per Books (allocated)	12,462,831			12,462,831	2,492,566		6,525,368					i -	-	9,017,934	14,358,665	3,525,194	26,901,793
12 Appliance Recycling	Per Books	1,040,372			1,040,372	104,037		527,787					·	-	631,824	633,578	116,821	1,382,223
13 My Home Energy Report	Per Books	5,099,942			5,099,942	5,099,942		-					-	-	5,099,942	5,015,789	213,290	10,329,021
14 Residential New Construction	Per Books	6,351,007			6,351,007	635,101		710,997					-	-	1,346,098	617,399	144,871	2,108,368
15 Home Depot CFL	Per Books	-			-	-	-	34,012						-	34,012		-	34,012
16 Energy Education Program for Schools	Per Books	600,205			600,205	120,041		•					Ĭ.		120,041	62,822	-	182,863
17 Multi-Family	Per Books	2,228,794			2,228,794	445,7\$9									445,759	418,211	327,062	1,191,032
18 Subtotal-Residential	I Lines 7 thru 15	33,652,063			33,652,063	9,484,338	•	11,937,900	-	- POSTANEJNIKATUW			- 20	-	21,422,238	22,007,857	4,853,792	48,283,887
19 CIG Energy Efficiency	Per Books	5,306,561			5,306,561	530,656		3,608,712						-	4,139,368	6,418,440	3,481,402	14,039,210
20 EE Lighting (Gen Svc)*	Per Books (allocated)	1,513,653			1,513,653			761,866							1,064,597	5,646,190	869,321	7,580,108
21 Small Business Energy Saver	Per Books	8,336,106			8,336,106			1,067,618					-	-	1,901,229	2,756,208	539,082	5,196,519
22 Business Energy Report	Per Books	63.355			63,355										21,118		-	21,118
23 Subtotal-General Service	Σ Lines 19 thru 21	15,219,675	AVA/3010-00-000/00/2/04894044.		15,219,675		-	5,438,196	-	-	-	-	-	-	7,126,312	14,820,838	4,889,805	26,836,955
			2007-923-100034-000053L					17,376,096		SINGLAND CHARGOS CONTRACTORS			桂		28,548,550	36,828,695	9,743,597	75,120,842
24 Total of EE Programs	Lines 18 + 23	48,871,738			48,871,738	11,172,454							4.953.167	2,187,482	10,193,962	30,626,033	3,743,337	10,193,962
25 EE Assigned A&G and CCost	Per Books		P. 20 (1980) 100 (1980)	4,335,001			1,445,000	1,608,313	3 Maria Sent Principal		erio de la composición del composición de la composición de la composición del composición de la composición del composición de la composición del composici			2,187,482	38,742,512	36,828,695	9,743,597	85,314,804
26 Total EE and Assigned Costs	Lines 24 + 25	48,871,738		4,335,001	53,206,739	11,172,454	1,445,000	18,984,409					4,953,167	2,187,482	38,742,512	36,828,695	9,743,597	85,314,804
NC DSDR Program Expenses																		
27 DSDR Program	Per Books	4,703,207	866,164		5,569,371	556,937	-	3,372,331	7,713,185	3,406,397	614,399	11,027,972			26,691,221	420,831		27,112,052
28 DSDR Assigned A&G and CCost	Per Books			-			-						1,073,170		1,547,117		· · · · · · · · · · · · · · · · · · ·	1,547,117
29 Total DSDR and Assigned Costs	Σ Lines 27 thru 28	4,703,207	866,164	-	5,569,371	556,937	-	3,372,331	7,713,185	3,406,397	614,399	11,027,972	1,073,170	473,947	28,238,338	420,831	-	28,659,169
30 Test Period Totals	Lines 6 + 26 + 29	65,776,366	866,164	5,510,219	72,152,749	12,962,672	1,836,739	28,221,777	7,713,185	3,406,397	614,399	11,027,972	7,832,320	3,459,011	77,074,473	37,249,538	13,138,541	127,462,551

<sup>\*</sup>All Non-Residential programs are amortized over a 10 year period. The Residential Lighting Program, Multi-Family EE and EE Education are recoverable over a 5 year period. My Home Energy Report is recoverable over a 1 year period. All other Residential EE programs are recoverable over 10 years.

Please note: Exhibit may not foot due to rounding.

Note: My Home Energy Report 2015 costs includes \$171,843.92 of 2014 Residential Energy Efficiency Benchmarking costs that were excluded from accounting amortization calculations in 2014 and included in 2015. PPI calculations in 2014 included these costs; therefore no further adjustment is required.

Supplemental Miller Exhibit 2 page 6 of 8 REVISED

# DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1145 EMF Period Revenue Requirement Summary - NC Level January 2016 - December 2016

			I				· · · · · · · · · · · · · · · · · · ·												
			200 H 400	\$1. 41 Lef	1.44.1.31	3 AME   113			1	F		13H1 II 24	JH -441 .	8 6 8.8			oscovski pravos	Maria est Maria este	num nombus said
											Income Taxes				Income Taxes	Rev Regmt		Program	
					A&G	Capitalized O&M	Amortization of	Amortization of	Prior Period	DSDR Capital	on DSDR	DSDR Property	DSDR	Carrying Costs			Net Lost Revenue		Rev Regmt With
			O&M	Insurance	Expense		apitalized O&M		Amortization	Costs	Capital Costs		Depreciation	Net of Taxes	Cost	NLR	Recoupment	Incentive	PPI & NLR
			(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
				.,	• •	ΣCols(1)thru(3)	((1)+(2))/10	(3)/3								ΣCols(5)thru(13)			ECols(14)thru(16)
	NC DSM Program Expenses																		
1	CIG DR	Per Books	1,317,982			1,317,982	439,327	-	748,162						-	1,187,490		150,959	1,338,449
2		Per Books	11,121,683			11,121,683	1,112,168	-	5,455,944					-	-	6,568,112		4,155,197	10,723,309
3	=-		907,756			907,756	302,585		18,769					2		321,354	18,814	(32,505)	307,663
4	Total DSM	I Lines 1 thru 2	13,347,421			13,347,421	1,854,081	-	6,222,875					-	-	8,076,956	18,814	4,273,651	12,369,421
5	DSM Assigned A&G and CCost	Per Books	- 68		826,570	826,570		275,523	569,258					2,088,641	901,031	3,834,453			3,834,453
6	Total DSM and Assigned Costs	Σ Lines 4 thru 5	13,347,421		826,570	14,173,991	1,854,081	275,523	6,792,133					2,088,641	901,031	11,911,411	18,814	4,273,651	16,203,874
	NC EE Program Expenses																		
7	Residential Home Advantage	Per Books	_ 388			-		_	415,195					š -	-	415,195	-	176,476	591,671
,	_	Per Books	4,863,587			4,863,587	486,359		3,194,418						-	3,680,777	865,206	363,925	4,909,908
9	<u></u> .	Per Books	1,660,132			1,660,132	166,013		974,446						-	1,140,459	256,359	-	1,396,818
1	· ·	Per Books				-,,	,		39,343					-	-	39,343		-	39,343
1		Per Books (allocated)	12,579,512			12,579,512	2,515,902		7,705,052					•	-	10,220,954	12,497,372	3,293,264	26,011,591
1	0 0, .	Per Books	(110,818)			(110,818)	(11,082)		616,905					-	-	605,823	624,617	119,833	1,350,273
1		Per Books	4,764,032			4,764,032	4,764,032		- 1					å <u>-</u>	-	4,764,032	6,776,039	469,333	12,009,404
1		Per Books	7,607,501			7,607,501	760,750		1,249,458						-	2,010,208	962,767	313,262	3,286,237
1		Per Books	_						34,012					P -	-	34,012	-	-	34,012
1	•	Per Books	669,297			669,297	133,859		97,979							231,838	158,162	-	390,001
1		Per Books	545,584			545,584	109,117		-					ŝ		109,117	332,610	223,155	664,883
1	•	Per Books	1,146,853			1,146,853	229,371		-							229,371	74,198	56,121	359,689
1	<del>=</del> :	Per Books	1,654,217			1,654,217	330,843		323,805							654,648	1,333,331	285,481	2,273,461
2	•	Per Books	2,24,022			_, ,	,-										-		
2		Σ Lines 7 thru 20	35,379,897			35,379,897	9,485,165	-	14,650,613	-	-	-	-	-	-	24,135,778	23,880,662	5,300,852	53,317,291
-	2 Subtour Nesternan	L DINEST CITO LO	10,012,011				-,,							K.					
2	2 CIG Energy Efficiency	Per Books	(6)			(6)	(2)		4,036,623						-	4,036,621			4,036,621
2	***	Per Books (allocated)	1,527,825			1,527,825	305,565		923,287							1,228,852	4,259,577	1,021,849	6,510,279
2	• • • •		11,452,103			11,452,103	3,817,368		-					(		3,817,368	7,220,789	4,763,526	15,801,683
2		Per Books	7,551,375			7,551,375	2,517,125		1,686,506						-	4,203,631	4,647,161	1,448,020	10,298,811
2		Per Books	56,226			56,226	18,742		8,799							27,541	-	-	27,541
2		Per Books												3) P			(68,561)		(68,561)
2	8 Subtotal-General Service	Σ Lines 22 thru 27	20,587,523			20,587,523	6,658,798	-	6,655,215	-	-	-	-	-	-	13,314,013	16,058,966	7,233,395	36,606,374
			55 ac7 ac 860	providenskih av		FF 067 455	45443.05		24 205 022	600400000000000		WYCHOLOGO TEKNOTOLOGO		Ži		37,449,790	39,939,628	12,534,247	89,923,665
	9 Total of EE Programs	Lines 21 + 28	55,967,420		3.079.705	55,967,420	16,143,962	1.026.568	21,305,828 1,995,054					5,938,732	2,562,056	11,522,410	33,333,026	12,334,241	11,522,410
3	•	Per Books	55,967,420	percental de la companie de la compa		3,079,705 59,047,125	16,143,962	1,026,568	23,300,882					5,938,732	2,562,056	48,972,201	39,939,628	12,534,247	101,446,076
3	1 Total EE and Assigned Costs	Lines 29 + 30	55,367,420		3,079,705	53,047,125	10,143,962	1,020,368	ر ۵۶٫۵۰۷٫۵۵۷	1200407549122605				3,330,732	2,302,030	70,312,201	33,757,020	12,004,241	202,440,070
	NC DSDR Program Expenses															05 000	200		20.402.2:-
3		Per Books	4,555,619	799,061		5,354,680	535,468	-	3,803,888	6,922,417	2,989,795	666,934	11,002,122		404 004	25,920,624	261,724		26,182,348
3	•	Per Books			· · ·	·		-					44.000 :	1,140,039	491,824	1,631,863	204 201		1,631,863
3	4 Total DSDR and Assigned Costs	Σ Lines 32 thru 33	4,555,619	799,061	-	5,354,680	535,468	<u>.</u>	3,803,888	6,922,417	2,989,795	666,934	11,002,122	1,140,039	491,824	27,552,487	261,724	-	27,814,211
3	5 Test Period Totals	Lines 6 + 31 + 34	73,870,460	799,061	3,906,275	78,575,796	18,533,511	1,302,092	33,896,903	6,922,417	2,989,795	666,934	11,002,122	9,167,412	3,954,911	88,436,099	40,220,166	16,807,898	145,464,161

\*All Non-Residential programs are amortized over a 3 year period. The Residential Lighting Program, Multi-Family EE and EE Education are recoverable over a 5 year period. My Home Energy Report is recoverable over a 1 year period. All other Residential EE programs are recoverable over 10 years.

Please note: Exhibit may not foot due to rounding.

Supplemental Miller Exhibit 2 page 6 of 7

#### DUKE ENERGY PROGRESS, LLC Docket No. E-2, Sub 1174 EMF Period Revenue Requirement Summary - NC Level January 2017 - December 2017

																····		1
		20. [2.]		1.1.					£1	1			3 -		alogada s	er er ander der er	7 0 454	
										. ! _								
		数据 二十二十								Income Taxes		ب لائد الله		Income Taxes	Rev Reqmt		Program	
				A&G			Amortization of			on DSDR	DSDR Property	DSDR	Carrying Costs			Net Lost Revenue		Rev Reqmt With
		08M	Insurance	Expense		Capitalized O&IVI		Amortization	Costs	Capital Costs		Depreciation	Net of Taxes	Cost	NLR	Recoupment	Incentive	PPI & NLR
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
					ΣCols(1)thru(3)	((1)+(2))/10	(3)/3								ΣCols(5)thru(13)			ΣCols(14)thru(16)
NC DSM Program Expenses		box	compacted states absolute to compact					50	nt the dank comes vista	contractor contractor from	STEERS OF STREET, WATER ST	November of the state of the st	>					
1 CIG DR	Per Books	1,254,690			1,254,690	418,230	-	1,211,354					-	•	1,629,584		233,850	1,863,435
2 EnergyWise	Per Boaks	10,809,353			10,809,353	1,080,935	•	6,846,043					-	-	7,926,978		4,959,965	12,886,943
3 EnergyWise for Business		1,145,187			1,145,187	381,729		321,354					1		703,083	49,698	(57,486)	695,295
4 Total DSM	Σ Lines 1 thru 2	13,209,230			13,209,230	1,880,894		8,378,751					-	-	10,259,646	49,698	5,136,330	15,445,674
5 DSM Assigned A&G and CCost	Per Books	- 225		724,598	724,598		241,533	644,481					2,302,515	970,232	4,158,761			4,158,761
6 Total DSM and Assigned Costs	I Lines 4 thru 5	13,209,230		724,598	13,933,828	1,880,894	241,533	9,023,232					2,302,515	970,232	14,418,407	49,698	5,136,330	19,604,434
NC EE Program Expenses																		
7 Residential Home Advantage	Per Books	. 78			_	_		409,789					g G		409,789	_	176,476	586,265
_		5,690,293			5,690,293	569,029	-			*			-	-	4,368,406	1,068,146	354,753	
8 Home Energy Improvem't 9 Neighborhood Energy Saver	Per Books Per Books	1,455,850			1,455,850	145,585		3,799,377 1,173,332					· .	-	1,318,917	282,317	334,/33	5,791,306 1,601,234
10 Solar Hot Water Pliot	Per Books	1,433,630			1,433,630	145,565		39,343					į.	•	39,343	202,317	-	39,343
11 EE Lighting (Res)*	Per Books (allocated)	8,914,921			8,914,921	1,782,984		9,708,887							11,491,871	9,105,170	3,742,027	24,339,068
0 0, ,						1,782,984							-	-	633,915	396,451		
12 Appliance Recycling 13 My Home Energy Report	Per Books	4,566			4,566			633,458					9	•			119,754	1,150,119
	Per Books	5,519,603			5,519,603	5,519,603		- 470.254					•	-	5,519,603	6,016,176	22,039	11,557,818
	Per Books	9,539,733			9,539,733	953,973		2,170,251					-	•	3,124,224	1,588,365	522,045	5,234,634
15 Home Depot CFL	Per Books	- 50					-	21,623					-	-	21,623		-	21,623
16 Energy Education Program for Schools	Per Books	683,286			683,286	136,657		253,900							390,557	335,531	-	726,088
17 Save Energy & Water Kits	Per Books	726,505			726,505	145,301		109,117					Ø *		254,418	1,741,733	717,765	2,713,917
18 Residential Energy Assessments	Per Books	1,523,096			1,523,096	304,619		229,371					Ĭ.		533,990	370,750	115,536	1,020,276
19 Multi-Family	Per Books	2,055,123			2,055,123	411,025		776,602							1,187,627	2,056,521	505,626	3,749,773
20 Found Revenue	Per Books							<u> </u>								-		
21 Subtotal-Residential	Σ Lines 7 thru 20	36,112,976			36,112,976	9,969,233	-	19,325,050	_	u um rescuracións montanes	CONTRACTOR DESCRIPTION OF A STREET, NO.	o vijesmu sem Kraenoneka		-	29,294,283	22,961,160	6,276,021	58,531,465
													8					
22 CIG Energy Efficiency	Per Books	-			-	-		4,181,401					-	-	4,181,401			4,181,401
23 EE Lighting (Gen Svc)*	Per Books (allocated)	1,080,475			1,080,475	216,095		1,178,424					Ĕ G		1,394,519	2,605,783	1,213,527	5,213,828
24 Non-Residential Energy Efficiency Progra	an Per Books	17,896,772			17,896,772	5,965,591		3,817,368					ê		9,782,959	8,747,463	6,944,270	25,474,692
25 Smart Saver Prescriptive	Per Books							å					S F				-	-
26 Smart Saver Custom	Per Books							į									-	-
27 Smart Saver Performance Incentive	Per Books							3								8,952	7,194	16,146
25 Small Business Energy Saver	Per Books	7,168,664			7,168,664	2,389,555		4,522,520					-	-	6,912,075	5,825,104	2,221,389	14,958,568
28 Business Energy Report	Per Books	16,616			16,616	5,539		39,860		3					45,399	577	-	45,976
29 Found Revenue	Per Books							ŝ					<u> </u>			(186,197)		(186,197)
30 Subtotal-General Service	Σ Lines 22 thru 29	26,162,527			26,162,527	8,576,779	-	13,739,573	-	-	-	-	-	-	22,316,352	17,001,682	10,386,380	49,704,414
		Short.	cus tie denastrationimus (a)						o service constructive record	NAMES AND THE PARTY OF THE PART		WEIGHNAME THE THE	21					
31 Total of EE Programs	Lines 21 + 30	62,275,503			62,275,503	18,546,012	-	33,064,623					-	-	51,610,635	39,962,842	16,662,401	108,235,879
32 EE Assigned A&G and CCost	Per Books	- 1990		2,763,836	2,763,836		921,279	2,382,244					6,683,696	2,816,397	12,803,616			12,803,616
33 Total EE and Assigned Costs	Lines 31 + 32	62,275,503		2,763,836	65,039,339	18,546,012	921,279	35,446,867					6,683,696	2,816,397	64,414,251	39,962,842	16,662,401	121,039,494
NC DSDR Program Expenses																		
34 DSDR Program	Per Books	3,976,242	735,060		4,711,302	471,130	-	4,436,826	6,339,403	2,672,041	603,847	11,031,510			25,554,757	132,107		25,686,864
35 DSDR Assigned A&G and CCost	Per Books					-,	_	-		· · · ·			1,179,711	497,109	1,676,820			1,676,820
36 Total DSDR and Assigned Costs	Σ Lines 34 thru 35	3,976,242	735,060		4,711,302	471,130	-	4,436,826	6,339,403	2,672,041	603,847	11,031,510	1,179,711	497,109	27,231,577	132,107		27,363,684
· ·																		
37 Test Period Totals	Lines 6 + 33 + 36	79,460,975	735,060	3,488,434	83,684,469	20,898,037	1,162,811	48,906,925	6,339,403	2,672,041	603,847	11,031,510	10,165,922	4,283,738	106,064,236	40,144,647	21,798,731	168,007,613

<sup>\*</sup>All Non-Residential programs are amortized over a 3 year period. The Residential Lighting Program, Multi-Family EE and EE Education are recoverable over a 5 year period. My Home Energy Report is recoverable over a 1 year period. All other Residential EE programs are recoverable over 10 years.

Please note: Exhibit may not foot due to rounding.

	٦				,,				-									
	in the second se	F. 195						1		ē.		17	: h.t			Masteria de La dese		
										<u> </u>								
										Income Taxes				Income Taxes	Rev Regmt		Program	
			Aa.ll	A&G		Amortization of		Prior Period	DSDR Capital Costs	on DSDR Capital Costs	DSDR Property	DSDR Depreciation	Carrying Costs Net of Taxes	on Carrying Cost	Before PPI & NLR	Net Lost Revenue Recoupment	Performance Incentive	Rev Regmt With PPI & NLR
	a a constant	O&M (1)	Insurance (2)	Expense (3)	and A&G (4)	Capitalized O&M (5)		Amortization (7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)
		(1)	(2)	(3)	(4) ΣCols(1)thru(3)	(3) ((1)+(2))/10	(6) (3)/3	(2)	10)	137	(10)	(11/	(22)	(23)	ΣCols(5)thru(13)	(15)	(10)	ΣCols(14)thru(16)
	NC DSM Program Expenses				2003(1)8114(0)	((1)-(2))/10	ioho								2000(0)(10)			200.0(1.70.00(1.0)
.1	CIG DR	1,399,223	5055058656866		1,399,223	466,408		1,617,836							2,084,244		291,878	2,376,122
2	EnergyWise	12,087,626			12,087,626	1,208,763		7,832,408					_	_	9,041,171		5,613,145	14,654,316
3	<del>-</del> .	1,733,219			1,733,219	577,740		695,263							1,273,003	57,289	(124,125)	1,206,167
4	-	15,220,068			15,220,068	2,252,910	-	10,145,508	70250700000				_		12,398,418	57,289	5,780,898	18,236,605
5	DSM Assigned A&G and CCost	13,220,000		767,276	767,276	2,232,310	255,759	609,858			200		2,809,943	624,905	4,300,465	,	-,,	4,300,465
6		15,220,068		767,276	15,987,344	2,252,910	255,759	10,755,366				and the Table	2,809,943	624,905	16,698,883	57,289	5,780,898	22,537,070
	-		ATTEC CANONITATION PRINTED CONTROL			-,,	,	,	2000 to outpress or the formation	NV MESE BEFORESSES STOP JOSE POR CALLOUS	PARTIES ASSAURANCE PROPERTY OF STREET	TOTAL A STATE OF THE A STATE OF THE A STATE OF THE A						
	NC EE Program Expenses								To-face shaft (DAMERS) ARE			- Land Academic Street Services						
7		-			-	•	+	380,546						-	380,546		176,476	557,022
8	Home Energy Improvem't	5,861,122			5,861,122	586,112		4,347,799					-	-	4,933,911	672,751	340,898	5,947,560
9	Neighborhood Energy Saver	1,500,588			1,500,588	150,059		1,314,427	100				-	-	1,464,486	134,180	-	1,598,666
10								38,418					-	•	38,418		-	38,418
11		7,117,425			7,117,425	1,423,485		9,737,010					-	-	11,160,495	2,950,128	4,163,487	18,274,110
12					-			633,915					•	-	633,915	52,165	119,754	805,834
13		6,250,206			6,250,206	6,250,206		<del>.</del>					•	-	6,250,206	6,433,772	(63,585)	12,620,393
14		10,723,253			10,723,253	1,072,325		3,124,224	nacionización				-	-	4,196,549	1,170,118	582,765	5,949,433
15	•				-	•	-	2,495					-	-	2,495		•	2,495
16	-	550,291			550,291	110,058		390,557							500,615	218,873	-	719,488
17	<del>-</del> '	670,940			670,940	134,188		254,418							388,606	1,630,652	941,861	2,961,119
18	<del>-</del> -	1,505,780			1,505,780	301,156		\$33,990							835,146	602,369	255,573	1,693,089
19	•	1,959,175			1,959,175	391,835		1,187,627		encore de la company					1,579,462	1,441,342	615,984	3,636,788
20	<del>-</del>															(4,903)	~	(4,903)
21	Subtotal-Residential	36,138,780			36,138,780	10,419,425	-	21,945,426		Radionalaisan en		- December 2000 (Ann	-	-	32,364,851	15,301,448	7,133,214	54,799,512
27	CIG Energy Efficiency					_		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4							4,114,401			4,114,401
22	·	- 862,454			862,454	172,491		4,114,401 1,181,699					-	-	1,354,190	1,207,667	1,384,376	4,114,401 3,946,232
24		-			862,434	1/2,491		9,782,959							9,782,959	8,638,552	1,304,376	18,421,511
25		9,493,158			9,493,158	3,164,386		3,762,333							3,164,386	8,030,332	8,910,038	12,074,424
26		1,767,818			1,767,818	589,239		-							589,239		250,414	839,653
27		1,707,010			1,707,010	303,233									303,233	46,133	29,805	75,938
25		7,201,646			7,201,646	2,400,549		6,912,075					_	_	9,312,624	4,256,047	2,630,625	16,199,295
28	<del></del> -	-,202,040			.,,	-		36,600							36,600	.,,	2,000,023	36,600
29								35,540							20,000	(206,825)		(206,825)
30		19,325,076			19,325,076	6,326,665	-	22,027,734	*		*	-	-	-	28,354,399	13,941,574	13,205,257	55,501,231
31	. Total of EE Programs	55,463,856			55,463,856	16,746,089	-	43,973,159					_		60,719,249	29,243,022	20,338,471	110,300,742
32	EE Assigned A&G and CCost	-		2,859,319	2,859,319		953,106	2,295,518					7,954,289	1,768,764	12,971,677			12,971,677
33	Total EE and Assigned Costs	55,463,856		2,859,319	58,323,175	16,746,089	953,106	46,268,677					7,954,289	1,768,764	73,690,927	29,243,022	20,338,471	123,272,420
	NC DCDD Drawn Function																	
٠.	NC DSDR Program Expenses	2 602 524	670.117		4.262.622	426.261		4 750 100	C 410 CC.	1 427 600	CO2 072	10 427 642			34.000.453	2 222		34 071 761
34 35		3,693,521	670,117		4,363,638	436,364	-	4,756,429	6,418,064	1,427,080	603,872	10,427,643	1 216 524	202 752	24,069,452	2,329		24,071,781
36		3,693,521	670,117	-	4,363,638	436,364	-	4,756,429	6,418,064	1,427,080	603,872	10,427,643	1,316,534 1,316,534	292,752 292,752	1,609,286 25,678,738	2,329		1,609,286
	_			-													-	25,681,067
37	Test Period Totals	74,377,445	670,117	3,626,595	78,674,157	19,435,363	1,208,865	61,780,472	6,418,064	1,427,080	603,872	10,427,643	12,080,766	2,686,421	116,068,548	29,302,640	26,119,369	171,490,556
	<del>-</del>																	

<sup>\*</sup>All Non-Residential programs are amortized over a 3 year period. The Residential Lighting Program, Multi-Family EE and EE Education are recoverable over a 5 year period. My Home Energy Report is recoverable over a 1 year period. All other Residential EE programs are recoverable over 10 years.

Please note: Exhibit may not foot due to rounding.

Attorney General's Office DSM/EE Mechanism Review Data Request No. 3 Docket No. E-7, Sub 1032 Docket No. E-2, Sub 931 Item No. 3-5 Page 1 of 1

#### **DUKE ENERGY CAROLINAS, LLC and DUKE ENERGY PROGRESS, LLC**

#### **Request:**

Please provide a list of all states (and utilities) of which Duke has knowledge that have allowed a rate of return on administrative and general expenses of DSM and/or EE programs since their inception.

#### **Response**:

Duke has performed no research on other states or utilities regarding the allowance of returns on DSM and/or EE related administrative and general expenses. As such, Duke has no knowledge of other states or utilities allowing a rate of return on administrative and general expenses.

NC Public Staff
Docket No. E-7, Sub 1032
Docket No. E-2, Sub 931
Data Request No. 2
Item No. 2-1
Page 1 of 1

#### **DUKE ENERGY CAROLINAS, LLC and DUKE ENERGY PROGRESS, LLC**

#### Request:

Please provide a narrative on the level of incentives and compensation for lost revenues available to Duke Energy Florida (DEF) associated with the Company's cost recovery mechanism for its demand-side management and energy efficiency programs. If applicable, this response should identify the incentive rate that is comparable to the 11.50% and 11.75% PPI as employed by DEC and DEP in their respective mechanisms. In addition, please identify the Docket or Case number associated with DEF's most recent cost recovery proceeding for its demand-side management and energy efficiency programs.

#### Response:

The Company objects to this question on the grounds that it is not relevant to this matter. The North Carolina Code of Conduct, as stipulated to by the Public Staff and Duke Energy and most recently approved by the North Carolina Utilities Commission in Docket Nos. E-2, Sub 1095A, E-7, Sub 1100A, and G-9, Sub 682A, provides that Duke Energy Corporation's affiliates "shall operate independently of each other" and "shall maintain separate books and records." *Order Granting Motion to Amend Regulatory Conditions*, issued Aug. 24, 2018 Appendix A, p. 48, Therefore the components of Duke Energy Florida's EE/DSM mechanism, which is based on Florida's comprehensive legal and regulatory landscape, is not relevant or related to this specific North Carolina proceeding. Additionally, the documents in the Florida proceeding are publicly available. The objection notwithstanding, and without waiving said objection, the Company responds as follows:

Duke Energy Florida's approved energy efficiency mechanism allows it to recover its program costs and earn allowed return on capital expenditures. Its most recent cost recovery proceeding, which is publicly available, was filed in Docket No. 20190002-EG and is available through: <a href="http://www.psc.state.fl.us/ClerkOffice/Docket">http://www.psc.state.fl.us/ClerkOffice/Docket</a>

NC Public Staff
Docket No. E-7, Sub 1032
Docket No. E-2, Sub 931
Data Request No. 2
Item No. 2-2
Page 1 of 1

#### **DUKE ENERGY CAROLINAS, LLC and DUKE ENERGY PROGRESS, LLC**

#### Request:

Please provide a narrative on the level of incentives and compensation for lost revenues available to Duke Energy Indiana (DEI) associated with the Company's cost recovery mechanism for its demand-side management and energy efficiency programs. If applicable, this response should identify the incentive rate that is comparable to the 11.50% and 11.75% PPI as employed by DEC and DEP in their respective mechanisms. In addition, please identify the Docket or Case number associated with DEI's most recent cost recovery proceeding for its demand-side management and energy efficiency programs.

#### Response:

The Company objects to this question on the grounds that it is not relevant to this matter. The North Carolina Code of Conduct provides that Duke Energy Corporation's affiliates "shall operate independently of each other" and "shall maintain separate books and records." (Please refer to the Companies' response to PSDR 2-1) Therefore the components of Duke Energy Indiana's EE/DSM mechanism, which is based on Indiana's comprehensive legal and regulatory landscape, is not relevant or related to this specific North Carolina proceeding. Additionally, the documents in the Indiana proceeding are publicly available. The objection notwithstanding, and without waiving said objection, the Company responds as follows:

Duke Energy's Indiana's EE/DSM cost recovery mechanism allows it to recover its program costs, earn shared savings ranging from 0% to 10%, and recover the lost revenues associated with the life of the measure savings. Its most recent cost recovery proceeding was filed in Docket No. 43955 and is available through <a href="https://iurc.portal.in.gov/advanced-search/">https://iurc.portal.in.gov/advanced-search/</a>.

NC Public Staff
Docket No. E-7, Sub 1032
Docket No. E-2, Sub 931
Data Request No. 2
Item No. 2-3
Page 1 of 1

#### **DUKE ENERGY CAROLINAS, LLC and DUKE ENERGY PROGRESS, LLC**

#### Request:

Please provide a narrative on the level of incentives and compensation for lost revenues available to Duke Energy Kentucky (DEK) associated with the Company's cost recovery mechanism for its demand-side management and energy efficiency programs. If applicable, this response should identify the incentive rate that is comparable to the 11.50% and 11.75% PPI as employed by DEC and DEP in their respective mechanisms. In addition, please identify the Docket or Case number associated with DEK's most recent cost recovery proceeding for its demand-side management and energy efficiency programs.

#### Response:

The Company objects to this question on the grounds that it is not relevant to this matter. The North Carolina Code of Conduct provides that Duke Energy Corporation's affiliates "shall operate independently of each other" and "shall maintain separate books and records." (Please refer to the Companies' response to PSDR 2-1) Therefore the components of Duke Energy Kentucky's EE/DSM mechanism, which is based on Kentucky's comprehensive legal and regulatory landscape, is not relevant or related to this specific North Carolina proceeding. Additionally, the documents in the Kentucky proceeding are publicly available. The objection notwithstanding, and without waiving said objection, the Company responds as follows:

Duke Energy Kentucky's approved energy efficiency mechanism allows it to recover its program costs, earn 10% shared savings, and recover up to 36 months of lost revenues. Its most recent cost recovery recent cost recovery proceeding was filed in Case No. 2018-00370 and is available through: <a href="https://psc.ky.gov/PSC">https://psc.ky.gov/PSC</a> WebNet/SearchCases.aspx

NC Public Staff
Docket No. E-7, Sub 1032
Docket No. E-2, Sub 931
Data Request No. 2
Item No. 2-4
Page 1 of 1

#### **DUKE ENERGY CAROLINAS, LLC and DUKE ENERGY PROGRESS, LLC**

#### Request:

Please provide a narrative on the level of incentives and compensation for lost revenues available to Duke Energy Ohio (DEO) associated with the Company's cost recovery mechanism for its demand-side management and energy efficiency programs. If applicable, this response should identify the incentive rate that is comparable to the 11.50% and 11.75% PPI as employed by DEC and DEP in their respective mechanisms. In addition, please identify the Docket or Case number associated with DEO's most recent cost recovery proceeding for its demand-side management and energy efficiency programs.

#### Response:

The Company objects to this question on the grounds that it is not relevant to this matter. The North Carolina Code of Conduct provides that Duke Energy Corporation's affiliates "shall operate independently of each other" and "shall maintain separate books and records." (Please refer to the Companies' response to PSDR 2-1) Therefore the components of Duke Energy Ohio's EE/DSM mechanism, which is based on Ohio's comprehensive legal and regulatory landscape, is not relevant or related to this specific North Carolina proceeding. Additionally, the documents in the Ohio proceeding are publicly available. The objection notwithstanding, and without waiving said objection, the Company responds as follows:

Duke Energy Ohio's approved energy efficiency mechanism allows it to recover its program costs, earn shared savings ranging from 0% to 13%, and recover up to 36 months of lost distribution revenue from those customer classes not participating the Company's revenue decoupling pilot. Its most recent cost recovery proceeding was filed in Case No. 19-622-EL-RDR and is available through: <a href="http://dis.puc.state.oh.us/">http://dis.puc.state.oh.us/</a>

Evans Exhibit 2, page 1

Duke Energy Progress For the Perlod January 1, 2015 - December 31, 2019 Docket Number E-2, Sub 1174 North Carolina Net Lost Revenue for Vintages 2015 - 2019

Residential		2014	V	intage 2014 2015	2016(a)	2017(a)	2018(a)	2019	Total
Appliance Recycling Program	s	120,357	\$	258.341 S	257,297 \$	138,135		\$	77:
Home Energy Improvement Program	\$	169,864	\$	271,941 \$	270,841 \$	103,462	\$ -		816
Residential Lighting Program Neighborhood Energy Saver Program	\$ \$	2,967,804 37,747	\$ \$	5,441,135 \$ 79,192 \$	5,401,532 \$ 78,872 \$	2,897,296 41,516	\$ - \$ -		16,70° 23°
Residential New Construction Residential Energy Efficient Benchmarking	\$	184,096		271,509 \$	270,412 \$	89,208	\$ -		819 804
Net Lost Residential Revenues	\$	809,163 4,289,032		(4,268) \$ 6,317,851 \$	6,278,954 \$	3,269,618	\$	\$	
Non Onderstot		2014		2015	2016/-)	2017/-1	2018(a)	2019	Takal
Non-Residential  Energy Efficiency for Business	s	1,442,220	•	2,222,371 \$	2016(a) 2,235,683 \$	2017(a) 809,474	Association of the second	\$	Total 6,70
Small Business Energy Saver Program	\$	749,923	\$	1,496,286 \$	1,505,249 \$	756,072	\$	·	4,50
Non-Residential Lighting Program Net Lost Non-Residential Revenues	\$	1,163,089 3,345,232		2,064,379 \$ 5,783,036 \$	2,069,735 \$ 5,810,667 \$	1,108,056 2,673,603	\$	\$	6,399 17,613
Residential		2014		intage 2015 up 2015	dated 5/30/2018 2016(a)	2017(a)	Jan-Mar 15 2018	2019	Total
Appliance Recycling Program			\$	123,909 \$	238,215 \$	246,008		\$	654
Energy Education Program for Schools Energy Efficient Lighting			\$ \$	71,588 \$ 1,665,788 \$	120,886 \$ 3,332,098 \$	124,841 3,441,107	\$ 24,481 \$ 536,645		34 8,97
Home Energy Improvement Program			\$	170,038 \$	347,916 \$	359,298	\$ 65,009		94:
Multi-Family My Home Energy Report			\$ \$	429,296 \$ 4,024,242 \$	909,897 \$ - \$	939,665	\$ 182,264 \$ -		2,46 4,02
Neighborhood Energy Saver			\$	54,534 \$	89,993 \$	92,937			25:
Residential New Construction Save Energy and Water Kit			\$	252,450 \$ - \$	390,785 \$ - \$	403,570	\$ -		1,10
Total Lost Revenues	\$	-	\$	6,791,845 \$	5,429,790 \$ - \$	5,607,426	\$ 924,793	\$	18,75
Found Residential Revenues Net Lost Residential Revenues	\$	-	\$	6,791,845 \$		5,607,426	\$ 924,793	\$	18,75
Non-Residential		2014		2015	2016(a)	2017(a)	2018	2019	Total
Energy Efficiency for Business			\$	1,386,578 \$	2,353,629 \$	2,443,707		\$	6,55
Energy Efficient Lighting			\$	420,420 \$	846,915 \$	879,329		\$	2,27
Small Business Energy Saver EnergyWise for Business			\$ \$	737,092 \$ - \$	1,703,045 \$	1,768,224	\$ 315,792 \$ ~	\$ \$	4,524
Total Lost Revenues	\$	-	\$	2,544,090 \$	4,903,589 \$	5,091,260	\$ 815,910	\$	13,35
Found Non-Residential Revenues Net Lost Non-Residential Revenues	\$	•	\$	- \$ 2,544,090 \$	- \$ 4,903,589 \$	5,091,260	\$ 815,910	\$	13,35
DSDR				2015	2016(a)	2017(a)	2018	2019	Total
DSDR	\$	-	\$	420,831 \$	145,979 \$	•	\$ -	\$	560
			:::, <b>v</b>	intage 2016			Jan-Mar 15		
Residential		2014		2015	2016(a)	2017(a)	2018	2019	Total
Appliance Recycling Program Energy Education Program for Schools				\$ \$	5,095 \$ 59,240 \$	12,308 135,532		- \$ - \$	1: 22:
Energy Efficient Lighting				\$	1,033,814 \$	2,116,981	\$ 432,565 \$	- \$	3,58
Home Energy Improvement Program My Home Energy Report				\$ \$	163,848 \$ 5,418,524 \$	370,108	\$ 75,625 \$ \$ 134,484 \$	- \$ - \$	609 5,553
Neighborhood Energy Saver				š	44,319 \$	105,283	\$ - \$	- \$	149
Multi-Family Residential Energy Assessments				\$ S	332,768 \$ 74,198 \$	658,165 222,923		- \$ - \$	1,017 343
Residential New Construction				\$	298,122 \$	670,358	\$ 136,975 \$	- \$	1,10
Save Energy and Water Kit Total Lost Revenues	\$		Ś	- \$	362,685 \$ 7,792,613 \$	987,169 5,278,826		- \$ - \$	1,55° 14,150
Found Residential Revenues Net Lost Residential Revenues	\$	•	\$	\$	- \$ 7,792,613	5,278,826	1,078,628	- \$	14,150
Non-Residential		2014		2015	2016(a)	2017(a)	2018	2019	Total
Business Energy Reports				\$	191,245 \$	-	\$ -	- \$	19
Energy Efficiency for Business				\$	1,638,505 \$ 246,438 \$	3,101,812 478,231		- \$ - \$	5,372 823
Energy Efficient Lighting Small Business Energy Saver				\$	1,100,746 \$	2,221,654	\$ 452,932	- \$	3,77
EnergyWise for Business Total Lost Revenues	•		\$	- \$	7,298 \$ 3,184,232 \$	19,733 5,821,430		- \$ - \$	10,19
Found Non-Residential Revenues	¥	•	Ÿ	\$	(68,561) \$	(113,553)		- 4	(29
Net Lost Non-Residential Revenues	\$	-	\$	- \$	3,115,672 \$	5,707,877	\$ 1,073,272 \$	- \$	9,89

<b>e</b>
•
N
5
۳
=

								Evans Exhibit 2, page 2
Line	Residential	2014	Vintage 2017 2015	2016(a)	2017(a)	2018	2019	Total
1	Appliance Recycling Program				\$ - \$ \$ 75.158 \$	- \$ 122,660 \$	- \$ 122,862 \$	- 320,680
2	Energy Education Program for Schools Energy Efficient Lighting				\$ 649,785 \$	1,541,746 \$	1,544,287 \$	3,735,818
4	Home Energy Improvement Program				\$ 235,278 \$ \$ 458,691 \$	420,443 \$ 900,109 \$	421,135 \$ 901,592 \$	1,076,856 2,260,393
5 6	Multi-Family My Home Energy Report				\$ 6,016,176 \$	- \$	- \$	6,016,176 221,565
7 8	Neighborhood Energy Saver Residential Energy Assessments				\$ 42,581 \$ \$ 147,827 \$	89,418 \$ 278,204 \$	89,565 \$ 278,662 \$	704,694
9	Residential New Construction				\$ 425,229 \$	839,386 \$ 1,340,146 \$	840,769 \$ 1,342,354 \$	2,105,383 3,437,064
10 11	Save Energy and Water Kit Total Lost Revenues	\$ -	\$ -	\$ -	\$ 754,565 \$ \$ 8,805,290 \$	5,532,112 \$	5,541,227 \$	19,878,629
12	Found Residential Revenues	· s	\$ -	\$ -	\$ - \$ \$ 8,805,290 \$	- \$ 5,532,112 \$	5,541,227 \$	19,878,629
13	Net Lost Residential Revenues	•	,	•	0,003,230 0	J,352,112 ¥	-,, ,	
	Non-Residential	2014	2015	2016(a)	2017(a)	2018	2019	Total
14	Business Energy Report				\$ 577 \$	- \$	- \$ 4,466,854 \$	577 11,328,382
15 15	Energy Efficiency for Business Energy Efficient Lighting				\$ 2,392,469 \$ \$ 173,636 \$		407,517 \$	988,000
16	Small Business Energy Saver				\$ 1,079,154 \$ \$ 8,952 \$		1,986,908 \$ 21,017 \$	5,053,741 50,993
17 18	Non-Res SmartSaver Performance EnergyWise for Business				\$ 29,965 \$	46,791 \$	46,773 \$	123,529
19 20	Total Lost Revenues Found Non-Residential Revenues	\$ -	\$ -	\$ -	\$ 3,684,753 \$ \$ (72,644) \$	6,931,401 \$ (106,296) \$	6,929,068 \$ (106,296)	17,545,222 (285,236)
21	Net Lost Non-Residential Revenues	\$ -	\$ -	\$ -	\$ 3,612,109 \$		6,822,772 \$	17,259,986
	DSDR	2014	2015	2016(a)	2017(a)	2018	2019	Total
22	DSDR	\$ -	\$ -	\$ -	\$ 65,125 \$	2,329 \$	- \$	67,453
Line	Residential	2014	Vintage 2018 2015		2017	2018 (a)	2019	Total
					\$	59,966 \$	- \$	59,966
1 2	Appliance Recycling Program Energy Education Program for Schools				\$	39,410 \$	99,626 \$	139,037
3	Energy Efficient Lighting				\$ \$		1,172,842 \$ 193,400 \$	1,789,321 268,305
4 5	Home Energy Improvement Program My Home Energy Report				\$	7,382,388 \$	- \$	7,382,388 158,829
6 7	Neighborhood Energy Saver				\$ \$		103,639 \$ 769,220 \$	1,148,268
8	Multi-Family Energy Efficiency Residential Energy Assessments				\$	77,398 \$	140,525 \$	217,923 1,328,092
9 10	Residential New Construction Save Energy and Water Kit				\$		888,107 \$ 1,495,300 \$	2,086,429
11	Total Lost Revenues	\$ -	\$ -	\$ -	\$ - \$ \$ - \$		4,862,660 \$	14,578,558
12	Found Residential Revenues Net Lost Residential Revenues	\$ -	\$	- \$ -	\$ - \$		4,862,660 \$	14,578,558
13								
13		2014	2015	2016(a)	2017	2018 (a)	2019	Total
	Non-Residential	2014	2015	2016(a)	2017		2019	-
14 15	Non-Residential  Business Energy Reports Energy Efficiency for Business	2014	2015	2016(a)		- \$ 832,065 \$	- \$ 1,771,404 \$	2,603,469
14 15 16	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting		2015	2016(a)	\$ \$ \$ \$	- \$ 832,065 \$ 163,369 \$ - \$	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$	2,603,469 414,021 71,032
14 15 16 17 18	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart \$aver Performance in Small Business Energy Saver		2015	2016(a)	\$ \$ \$ \$	- \$ 832,065 \$ 163,369 \$ - \$ 1,166,751 \$	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$	2,603,469 414,021 71,032 3,363,688
14 15 16 17	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance in		2015	2016(a)	9 9 9 9 9	- \$ 832,065 \$ 163,369 \$ - \$ 1,166,751 \$ 47,865 \$ 2,210,049 \$	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$	2,603,469 414,021 71,032 3,363,688 82,144 6,534,354
14 15 16 17 18 19 20 21	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart \$aver Performance in Small Business Energy Saver EnergyWise © for Business Total Lost Revenues Found Non-Residential Revenues	centive	\$ -	\$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 832,065 \$ 163,369 \$ 1,166,751 \$ 47,865 \$ 2,210,049 \$ (78,327) \$	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$	2,603,469 414,021 71,032 3,363,888 82,144 6,534,354 (223,094)
14 15 16 17 18 19 20	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance in Small Business Energy Saver EnergyWise & for Business Total Lost Revenues Found Non-Residential Revenues Net Lost Non-Residential Revenues	\$ - \$ -	\$ -	\$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 832,065 \$ 163,369 \$ . 1.166,751 \$ 47,865 \$ . 2.210,049 \$ . (78,327) \$ 2,131,722 \$	1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$	2,603,469 414,021 71,032 3,363,688 82,144 6,534,354
14 15 16 17 18 19 20 21	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart \$aver Performance in Small Business Energy Saver EnergyWise © for Business Total Lost Revenues Found Non-Residential Revenues	\$ - \$ -	\$ - \$ - rates for residential	\$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 832,065 \$ 163,369 \$ . 1.166,751 \$ 47,865 \$ . 2.210,049 \$ . (78,327) \$ 2,131,722 \$	1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$	2,603,469 414,021 71,032 3,363,888 82,144 6,534,354 (223,094)
14 15 16 17 18 19 20 21	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance in Small Business Energy Saver EnergyWise & for Business Total Lost Revenues Found Non-Residential Revenues Net Lost Non-Residential Revenues	\$ - \$ -	\$ -	\$ -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 832,065 \$ 163,369 \$ . 1.166,751 \$ 47,865 \$ . 2.210,049 \$ . (78,327) \$ 2,131,722 \$	1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$	2,603,469 414,021 71,032 3,363,888 82,144 6,534,354 (223,094)
14 15 16 17 18 19 20 21 22	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance in- Small Business Energy Saver EnergyWise ® for Business Total Lost Revenues Found Non-Residential Revenues Net Lost Non-Residential Revenues (a) Lost revenues were estimated by applying  Residential	\$ - \$ .	\$ - \$ - rates for residential of	\$ - \$ - and non-residential ous	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 832,065 \$ 163,369 \$ - \$ 1,166,761 \$ 47,865 \$ 2,210,049 \$ (78,327) \$ 2,131,722 \$  of orecasted program in	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$ participation.	2,603,469 414,021 71,032 3,363,688 82,144 6,534,354 (223,094) 6,311,259
14 15 16 17 18 20 21 22 Line	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance in Small Business Energy Saver EnergyWise © for Business Total Lost Revenues Found Non-Residential Revenues Net Lost Non-Residential Revenues (a) Lost revenues were estimated by applying  Residential  Appliance Recycling Program Energy Education Program for Schools	\$ - \$ .	\$ - \$ - rates for residential of	\$ - \$ - and non-residential ous	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 832,065 \$ 163,369 \$ 1,166,751 \$ 2,1210,049 \$ (78,327) \$ 2,131,722 \$  correcasted program   2018 (a)	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$ participation.  2019	2,603,469 414,021 71,032 3,363,868 82,144 6,534,354 (223,094) 6,311,259
14 15 16 17 18 19 20 21 22 Line	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance in Small Business Energy Saver EnergyWise & for Business Total Lost Revenues Found Non-Residential Revenues Net Lost Non-Residential Revenues (a) Lost revenues were estimated by applying  Residential  Appliance Recycling Program Energy Education Program Energy Education Program Energy Education Program	\$ - \$ .	\$ - \$ - rates for residential of	\$ - \$ - and non-residential ous	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 832,065 \$ 163,369 \$ 1.166,751 \$	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$  participation.  2019  - \$ 45,488 \$ 660,301 \$ 109,945 \$	2,603,469 414,021 71,032 3,363,868 82,144 6,534,354 (223,994) 6,311,259 Total
14 15 16 17 18 19 20 21 22 Line 1 2 3 4 5	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance in- Small Business Energy Saver EnergyWise of for Business Total Lost Revenues Found Non-Residential Revenues Not Lost Non-Residential Revenues Not Lost Non-Residential Revenues  (a) Lost revenues were estimated by applying  Residential  Appliance Recycling Program Energy Education Program for Schools Energy Efficient Lighting Home Energy Improvement Program My Home Energy Improvement	\$ - \$ .	\$ - \$ - rates for residential of	\$ - \$ - and non-residential ous	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 832,065 \$ 163,369 \$ 1.166,751 \$ . \$ 1.166,751 \$ . \$ 1.166,751 \$ . \$ 1.210,049 \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$ . \$	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$  participation.  2019  - \$ 45,488 \$ 60,301 \$ 109,946 \$ 6,365,499 \$	2,603,468 414,021 71,032 3,363,888 82,144 6,534,354 (223,094) 6,311,259 Total
14 15 16 17 18 20 21 22 Line 1 2	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance in Small Business Energy Saver EnergyWise & for Business Total Lost Revenues Found Non-Residential Revenues Net Lost Non-Residential Revenues  (a) Lost revenues were estimated by applying  Residential  Appliance Recycling Program Energy Education Program for Schools Energy Efficient Lighting Home Energy Improvement Program	\$ - \$ .	\$ - \$ - rates for residential of	\$ - \$ - and non-residential ous	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 832,065 \$ 163,369 \$ 153,369 \$ 1,166,751 \$ 2,1210,049 \$ 2,131,722 \$ 2,131,7	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$  participation.  2019  - \$ 45,488 \$ 660,301 \$ 109,946 \$ 6,365,499 \$ 54,545 \$ 456,925 \$	2,603,469 414,021 71,032 3,363,868 82,144 6,534,354 (223,994) 6,311,259  Total  45,488 660,301 109,946 6,365,499 54,545
14 15 16 17 18 19 20 21 22 Line 1 2 3 4 5 6 7 8	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance in Small Business Energy Saver EnergyWise & for Business Total Lost Revenues Found Non-Residential Revenues Net Lost Non-Residential Revenues  (a) Lost revenues were estimated by applying  Residential  Appliance Recycling Program Energy Education Program for Schools Energy Efficient Lighting Home Energy Improvement Program My Home Energy Report My Home Energy Report My Home Energy Report Multi-Family Energy Saver Multi-Family Energy Efficiency Residential Energy Assessments	\$ - \$ .	\$ - \$ - rates for residential of	\$ - \$ - and non-residential ous	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 832,065 \$ 163,369 \$ 1.166,761 \$ 47,865 \$ 2,210,049 \$ (78,327) \$ 2,131,722 \$ 2018 \$ 4	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$ participation.  2019  - \$ 45,488 \$ 660,301 \$ 109,946 \$ 6,365,499 \$ 54,545 \$	2,603,468 414,021 71,032 3,363,688 82,144 6,534,354 (223,094) 6,311,259  Total  45,488 660,301 109,946 6,365,499 54,545
14 15 16 17 18 19 20 21 22 Line 1 2 3 4 5 6 7 8 9	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance In- Small Business Energy Saver EnergyWise & for Business Total Lost Revenues Found Non-Residential Revenues Net Lost Non-Residential Revenues Net Lost Non-Residential Revenues (a) Lost revenues were estimated by applying  Residential  Appliance Recycling Program Energy Education Program for Schools Energy Efficient Lighting Home Energy Improvement Program My Home Energy Report Neighborthood Energy Saver Multi-Family Energy Efficiency Residential Energy Assessments Residential Energy And Vater Kit	\$ - \$ .	\$ - \$ - rates for residential of	\$ - \$ - and non-residential ous	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 832,065 \$ 163,369 \$ 163,369 \$ 1.166,751 \$ 2.210,049 \$ 2.78,327) \$ 2.131,722 \$ 2.166,761 \$ 3.27 \$ 2.166,761 \$ 3.27 \$ 3	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$  participation.  2019  - \$ 45,488 \$ 660,301 \$ 109,946 \$ 6,365,499 \$ 54,545 \$ 466,925 \$ 77,791 \$ 47,875 \$ 912,388 \$	2,603,469 414,021 71,032 3,363,688 82,144 6,534,354 (223,094) 6,311,259  Total  45,488 660,301 109,946 6,365,499 54,545 456,925 77,791 47,675 912,388
14 15 16 17 18 19 20 21 22 Line 1 2 3 4 5 6 7 8 9 10 11	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficiency for Business Energy Efficiency for Business Energy Efficiency Saver EnergyWise & for Business Total Lost Revenues Found Non-Residential Revenues Net Lost Non-Residential Revenues (a) Lost revenues were estimated by applying  Residential  Appliance Recycling Program Energy Education Program for Schools Energy Education Program for Schools Energy Efficient Lighting Home Energy Report Ney Home Energy Report My Home Energy Report Multi-Family Energy Saver Multi-Family Energy Efficiency Residential Energy Assessments Residential New Construction Save Energy and Water Kit Total Lost Revenues	\$ - \$ .	\$ - \$ - rates for residential of	\$ - \$ - and non-residential ous	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 832,065 \$ 163,369 \$ 1.166,761 \$ 47,865 \$ 2,210,049 \$ (78,327) \$ 2,131,722 \$ 2018 {a}	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$  participation.  2019  - \$ 45,488 \$ 660,301 \$ 109,946 \$ 6,365,499 \$ 54,545 \$ 77,791 \$ 47,875 \$	2,603,469 414,021 71,032 3,363,868 82,144 6,534,354 (223,994) 6,311,259  Total  45,488 660,301 109,946 6,365,499 54,545 456,925 77,791 47,875
14 15 16 17 18 19 20 21 22 Line 1 2 3 4 5 6 7 8 9	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance In- Small Business Energy Saver EnergyWise & for Business Total Lost Revenues Found Non-Residential Revenues Net Lost Non-Residential Revenues Net Lost Non-Residential Revenues (a) Lost revenues were estimated by applying  Residential  Appliance Recycling Program Energy Education Program for Schools Energy Efficient Lighting Home Energy Improvement Program My Home Energy Report Neighborthood Energy Saver Multi-Family Energy Efficiency Residential Energy Assessments Residential Energy And Vater Kit	s -  \$ -  \$ -  forecasted lost revenue	\$ - rates for residential a Vintage 2019 2015	\$ - \$ - and non-residential ous	tomers to state specific	- \$ 832,065 \$ 163,369 \$ 1.166,761 \$ 47,865 \$ 2,210,049 \$ (78,327) \$ 2,131,722 \$ 2018 {a}	1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$ participation.  2019	2,603,469 414,021 71,032 3,363,688 82,144 6,534,354 (223,094) 6,311,259  Total  45,488 660,301 109,946 6,365,499 54,545 456,925 77,791 47,675 912,388
14 15 16 17 18 19 20 21 22 22 Line 1 2 3 4 5 6 7 8 9 9 10 11 11 12 12 12 12 12 12 13 14 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance In- Small Business Energy Saver EnergyWise of for Business Total Lost Revenues Found Non-Residential Revenues Not Lost Non-Residential Revenues Not Lost Non-Residential Revenues  (a) Lost revenues were estimated by applying  Residential  Appliance Recycling Program Energy Education Program for Schools Energy Efficient Lighting Home Energy Improvement Program My Home Energy Report Neighborhood Energy Saver Multi-Family Energy Efficiency Residential Energy Assessments Residential Energy Assessments Residential Revenues Found Residential Revenues Found Residential Revenues	s -  \$ -  \$ -  forecasted lost revenue	\$ - rates for residential a Vintage 2019 2015	\$ - \$ - and non-residential ous	tomers to state specific	- \$ 832,065 \$ 163,369 \$ 1.166,761 \$ 47,865 \$ 2,210,049 \$ (78,327) \$ 2,131,722 \$ 2018 {a}	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$  participation.  2019  - \$ 45,488 \$ 660,301 \$ 109,946 \$ 6,365,499 \$ 54,545 \$ 77,791 \$ 47,875 \$ 912,388 \$ 8,730,758 \$ - \$	2,603,469 414,021 71,032 3,363,868 82,144 6,534,354 (223,994) 6,311,259  Total  45,488 660,301 109,946 6,365,499 54,545 456,925 77,791 47,875 912,388 8,730,758
14 15 16 17 18 19 20 21 22 22 Line 1 2 3 4 5 6 7 8 9 9 10 11 11 12 12 12 12 12 12 13 14 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Business Energy Reports Energy Efficiency for Business Energy Efficiency for Business Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance in Small Business Energy Saver EnergyWise & for Business Total Lost Revenues Found Non-Residential Revenues Net Lost Non-Residential Revenues  (a) Lost revenues were estimated by applying  Residential  Appliance Recycling Program for Schools Energy Efficient Lighting Home Energy Education Program for Schools Energy Efficient Lighting Home Energy Improvement Program My Home Energy Report Neighborhood Energy Saver Multi-Family Energy Efficiency Residential Energy Assessments Residential Energy Assessments Residential Energy Assessments Residential Revenues Found Residential Revenues Net Lost Residential Revenues Net Lost Residential Revenues  Non-Residential Business Energy Reports	s - s - s - s - s - s - s - s - s - s -	\$ - rates for residential a  Vintage 2019  2015  \$ - \$ - \$ - \$	\$ - and non-residential ous 2016(a)  \$ - \$ - \$ - \$ - \$ -	2017	- \$ 832,065 \$ 163,369 \$ 1.166,761 \$ 2.116,765 \$ 2.210,049 \$ 778,327) \$ 2.131,722 \$ 2018 (a)	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$ participation.  2019  - \$ 45,488 \$ 660,301 \$ 109,946 \$ 6,365,499 \$ 54,545 \$ 456,925 \$ 77,791 \$ 47,875 \$ 912,388 \$ 8,730,758 \$ 8,730,758 \$	2,603,469 414,021 71,032 3,363,888 82,144 6,534,354 (223,094) 6,311,259  Total  45,488 660,301 109,946 6,365,499 54,545 456,925 77,791 47,875 912,388 8,730,758  Total
14 15 16 17 18 19 20 21 22 22 Line 1 2 3 4 5 6 7 8 9 10 11 11 12 13	Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance instance of the Comment of the Comm	s - s - s - s - s - s - s - s - s - s -	\$ - rates for residential a  Vintage 2019  2015  \$ - \$ - \$ - \$	\$ - and non-residential ous 2016(a)  \$ - \$ - \$ - \$ - \$ -	2017	- \$ 832,065 \$ 163,369 \$ 1.166,761 \$ 2.10,049 \$ (78,327) \$ 2.131,722 \$ 2018 (a)	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 3,4,279 \$ 4,324,304 \$ (1144,767) \$ 4,179,537 \$  participation.  2019  - \$ 45,488 \$ 660,301 \$ 600,301 \$ 6,365,499 \$ 54,545 \$ 466,925 \$ 77,791 \$ 47,875 \$ 912,388 \$ 8,730,758 \$  8,730,758 \$  2019	2,603,468 414,021 71,032 3,363,688 82,144 6,534,354 (223,094) 6,311,259  Total  45,488 660,301 109,946 6,365,499 54,545 456,925 77,791 47,675 912,388 8,730,758
14 15 16 17 18 19 20 21 22 22 Line 1 2 3 4 5 6 6 7 8 9 10 11 12 13 14 15 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Business Energy Reports Energy Efficiency for Business Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance insmall Business Energy Saver EnergyWise & for Business Total Lost Revenues Found Non-Residential Revenues Net Lost Non-Residential Revenues  (a) Lost revenues were estimated by applying  Residential  Appliance Recycling Program Energy Education Program for Schools Energy Efficient Lighting Home Energy Improvement Program My Home Energy Report Neighborhood Energy Saver Mutit-Family Energy Efficiency Residential Energy Assessments Residential Energy Assessments Residential Revenues Found Residential Revenues Net Lost Residential Revenues Net Lost Residential Revenues  Non-Residential  Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance in	S	\$ - rates for residential a  Vintage 2019  2015  \$ - \$ - \$ - \$	\$ - and non-residential ous 2016(a)  \$ - \$ - \$ - \$ - \$ -	\$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	- \$ 832,065 \$ 163,369 \$ 163,369 \$ 1.166,761 \$ 2.10,049 \$ (78,327) \$ 2.131,722	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$  participation.  2019  - \$ 45,488 \$ 660,301 \$ 109,946 \$ 6,365,499 \$ 54,545 \$ 47,875 \$ 912,388 \$ 8,730,758 \$ 8,730,758 \$  2019  - \$ 1,003,105 \$ 174,071 \$ 120,492 \$	2,603,468 414,021 71,032 3,363,868 82,144 6,534,354 (223,094) 6,311,259  Total  45,488 660,301 109,946 6,365,499 54,545 456,925 77,791 47,875 912,388 8,730,758  Total
14 15 16 17 18 19 20 21 22 21 22 21 12 3 4 5 6 7 8 8 9 10 11 11 12 13 13 14 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Business Energy Reports Energy Efficiency for Business Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance in- Small Business Energy Saver EnergyWise of for Business Total Lost Revenues Found Non-Residential Revenues Not Lost Non-Residential Revenues Not Lost Non-Residential Revenues (a) Lost revenues were estimated by applying  Residential Appliance Recycling Program Energy Education Program for Schools Energy Efficient Lighting Home Energy Improvement Program My Home Energy Report Neighborhood Energy Saver Multi-Family Energy Efficiency Residential Energy Assessments Residential Energy Assessments Residential Revenues Found Residential Revenues Net Lost Residential Revenues Net Lost Residential Revenues Net Lost Residential Revenues Energy Efficiency for Business Energy Efficiency for Business Energy Efficiences Energy Raver Performance in Small Business Energy Raver	S	\$ - rates for residential a  Vintage 2019  2015  \$ - \$ - \$ - \$	\$ - and non-residential ous 2016(a)  \$ - \$ - \$ - \$ - \$ -	2017	- \$ 832,065 \$ 163,369 \$ 163,369 \$ 1.166,761 \$ 2.10,049 \$ (78,327) \$ 2.131,722	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$  participation.  2019  - \$ 45,488 \$ 600,301 \$ 109,946 \$ 6,365,499 \$ 54,545 \$ 456,925 \$ 77,791 \$ 47,875 \$ 912,388 \$ 8,730,758 \$  8,730,758 \$  2019	2,603,468 414,021 71,032 3,363,868 82,144 6,534,354 (223,094) 6,311,259  Total  45,488 660,301 109,946 6,365,499 54,545 456,925 77,791 47,875 912,388 8,730,758  Total  1,003,105 174,071 120,492 960,827 32,780
14 15 16 17 18 19 20 21 22 21 22 23 4 4 5 6 7 8 9 9 10 11 12 13	Business Energy Reports Energy Efficiency for Business Energy Efficient Lighting Non-Residential Smart Saver Performance insemilation of Publishess Found Non-Residential Revenues Net Lost Revenues Found Non-Residential Revenues Net Lost Non-Residential Revenues (a) Lost revenues were estimated by applying  Residential  Appliance Recycling Program Energy Education Program for Schools Energy Education Program for Schools Energy Efficient Lighting Home Energy Improvement Program My Home Energy Report Neighborhood Energy Saver Multi-Family Energy Efficiency Residential New Construction Save Energy and Water Kit Total Lost Revenues Net Lost Residential Revenues Net Lost Residential Revenues Net Lost Residential Revenues Energy Efficient Lighting Non-Residential Smart Saver Performance in Small Business Energy Saver EnergyWise © for Business Energy Werenues Total Lost Revenues	S	\$ - rates for residential at Vintage 2019 2015	\$ - and non-residential cus	\$ - \$ 5 - \$	- \$ 832,065 \$ 163,369 \$ 1.166,761 \$ 2.10,049 \$ (78,327) \$ 2.131,722 \$ 2.131,72	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 3,4,279 \$ 4,324,304 \$ (1144,767) \$ 4,179,537 \$  participation.  2019  - \$ 45,488 \$ 660,301 \$ 600,301 \$ 600,946 \$ 6,365,499 \$ 54,545 \$ 466,925 \$ 77,791 \$ 47,875 \$ 912,388 \$ 8,730,758 \$  2019  - \$ 1,003,105 \$ 174,071 \$ 120,492 \$ 960,827 \$ 32,780 \$ 2,291,275 \$	Z,603,468 414,021 71,032 3,363,868 82,144 6,534,354 (223,994) 6,311,259  Total  45,488 680,301 109,946 6,365,499 54,545 456,925 77,791 47,875 912,388 8,730,758  Total  1,003,105 174,071 120,492 960,827 32,780 2,291,275
14 15 16 17 18 19 20 21 22 22 Line 1 2 3 4 5 6 6 7 8 9 10 11 12 13 13 14 15 16 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	Business Energy Reports Energy Efficiency for Business Total Lost Revenues Found Non-Residential Revenues Net Lost Non-Residential Revenues (a) Lost revenues were estimated by applying  Residential  Appliance Recycling Program Energy Education Program for Schools Energy Efficient Lighting Home Energy Improvement Program My Home Energy Improvement Program My Home Energy Report Multi-Family Energy Efficiency Residential Energy Assessments Residential Energy Assessments Residential Revenues Found Residential Revenues Net Lost Residential Revenues Net Lost Residential Revenues Found Residential Revenues Found Residential Revenues Found Residential Revenues Net Lost Residential Revenues Found Residentia	S	\$ - stess for residential a Vintage 2019 2015  \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	\$ - and non-residential cus 2016(a)  \$ - \$ - \$ - 2016(a)	\$ - \$ 5 - \$  2017	- \$ 832,065 \$ 163,369 \$ 1.166,761 \$ 47,865 \$ 2,210,049 \$ 778,327) \$ 2,131,722 \$  forecasted program    2018 {a}  - \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- \$ 1,771,404 \$ 250,652 \$ 71,032 \$ 2,196,937 \$ 34,279 \$ 4,324,304 \$ (144,767) \$ 4,179,537 \$  participation.  2019  - \$ 45,48 \$ 660,301 \$ 109,946 \$ 6,365,499 \$ 54,545 \$ 466,925 \$ 77,791 \$ 47,875 \$ 912,388 \$ 8,730,758 \$  2019  - \$ 1,003,105 \$ 174,071 \$ 120,492 \$ 960,827 \$ 32,780 \$ 2,291,275 \$ (79,389) \$	2,603,468 414,021 71,032 3,363,868 82,144 6,534,354 (223,094) 6,311,259  Total  45,488 660,301 109,946 6,365,499 54,545 456,925 77,791 47,875 912,388 8,730,758  Total  1,003,105 174,071 120,492 960,827 32,780

Ouke Energy Progress For the Period January 1, 2015 - December 31, 2016 Docket Number E-2, Sub 1174 North Carolina Net Lost Revenue True Up for Vintages 2015 - 2016 Evans Exhibit 2, page 3

				Vintae	e 2015 as filed Lost I	Revenue bWh ¢	
Line	Residential		2015	2016(a)	2017(a)	2018	Total
1	A transfer of the control of the con						
2	Appliance Recycling Program Energy Education Program for Schools	•	123,909 \$ 62,859 \$		227,380 \$ 101,267 \$	· \$	589,605 270,272
3	Energy Efficient Lighting	i	1,665,788 \$		4,238,474 \$		9,236,360
4	Home Energy Improvement Program	•	170,038 \$		331,043 \$		848.996
5	Multi-Family	\$	456,463 \$	971,916 \$	847,368 \$	- \$	2,275,747
6	My Home Energy Report	\$	5,020,104 \$		. ,	- 1	5,020,104
7	Neighborhood Energy Saver	•	54,534 \$	89,993 \$	73,350 \$	- \$	217,877
8	Residential New Construction Save Energy and Water Kit	•	212,546 \$	329,015 \$	314,051 \$	- 1	855,612
10	Lost Residential Revenues		7,766,241 \$	5,415,298 \$	6,132,933 \$	- ;	19,314,472
11	Found Residential Revenues	í	7,700,241 5	3,413,234 \$	0,132,333 \$	: :	19,314,472
	Net Lost Residential Revenues	\$	7,766,241 \$	5,415,298 \$	6,132,933 \$	· \$	19,314,472
						·	
	Non-Residential	_	2015	2016(a)	2017(a)	2018	Total
13	Energy Efficiency for Business	\$	1,386.578 \$	2,353,629 \$	2,229,685 \$		5,969.892
14	Energy Efficient Lighting	į	420,420 \$		1,621,916 \$		2,889,251
15	Small Business Energy Saver	\$	737.092	1,703,045 \$		- \$	4,053,498
16	EnergyWise (or Business	\$	. \$	- 5	69 \$	- \$	69
17	Net Lost Non-Residential Revenues	\$	2,544,090 \$	4,903,589 \$	5,465,031 \$	- \$	12,912,710
	Found Non- Residential Revenues	\$	- \$		- 5		-
19	Net Lost Non-Residential Revenues	\$	2,544,090 \$	4,903,589 \$	5,465,031 \$	- \$	12,912,710
	DSDR		2015	2016(a)	2017(a)	2018	Total
20	DSDR	\$	420.831 \$	145,979 \$	- 1	- \$	566,810
	Residential				e 2016 as filed Lost F		
Line	Kesidential		2015	2016(a)	2017(2)	2018	Total
1	Appliance Recycling Program		- \$	5.095 \$	203,747 \$	. \$	208.843
ź	Energy Education Program for Schools	š			97.012 \$		149.028
3	Energy Efficient Lighting	i			2,253,342 \$		3,287,156
3	Home Energy Improvement Program	\$	- \$		122,724 \$	- \$	286,613
4	My Home Energy Report	\$	- \$		- \$	- \$	6,776,039
5	Neighborhood Energy Saver	ş	- \$		84,254 \$	- \$	128,573
6	Multi-Family		- \$		535,662 \$	- \$	897,077
7 8	Residential Energy Assessments Residential New Construction	•	· \$		61,525 \$ 436,338 \$	: 1	135,723 730,991
9	Save Energy and Water Kit	:	: :	332,610 \$	621,659 \$	• ;	954,269
10	Lost Residential Revenues				4,416,263 \$	<del></del>	13,554,312
11	Found Residential Revenues	- 1	. ,	9,130,049 9	4,410,203 3		13,334,312
	Net Lost Residential Revenues	5	- š	9,138,049 \$	4,416,263 \$	. \$	13,554,312
		•	Ţ	*******	7,117,117	•	******
	Non-Residential		2015	2016(a)	2017(a)	2018	Total
11	Business Energy Reports		5		- 5	. s	
12	Energy Efficiency for Business		š		1,895,405 \$	- \$	3,533,966
13	Energy Efficient Lighting		\$		1,251,716 \$	- \$	1,498,155
14	Small Business Energy Saver		\$		1,557,986 \$	- \$	2,665,097
15	EnergyWise for Business	_	- \$	18,814 \$	27,113 \$	- 5	45,927
16	Net Lost Non-Residential Revenues	\$	- \$		4,732,221 \$	- \$	7,743,145
17	Found Non- Residential Revenues		· •	(68,561) \$	(113,553) \$	- 1	(182,114)
18	Net Lost Non-Residential Revenues	\$	- \$	2,942,363 \$	4,618,668 \$	- \$	7,561,031
	DSDR	_	2015	2016(a)	2017(a)	2018	Total
19	DSDR		\$	115,745 \$	66,983 \$	- \$	182,728

Evans Exhibit 2, page 4

# Ouke Energy Progress For the Period January 1, 2015 - December 31, 2016 Docket Number E-2, Sub 1174 North Carolina Net Lost Revenue True Up for Vintages 2015 - 2016

				Vintage	2015 True Up Lost Revenu	ie kWh \$	
Une	Residential		2015	2016(a)	2017(a)	2018	Total
1	Appliance Recycling Program		123,909 \$	238,215 \$	246,008 \$	46,185 \$	654,317
ż	Energy Education Program for Schools	•	71,588 \$	120,886 \$	124,841 \$	24,481 \$	341,797
3	Energy Efficient Lighting	\$	1,665,788 \$	3,332,098 \$	3,441,107 \$	536,645	8,975,638
4	Home Energy Improvement Program	\$	170,038 \$	347,916 \$	359,298 \$	65,009 \$	942.260
5	Multi-Family	\$	429,295 \$	909,897 \$	939,665 \$	182,264 \$	2,461,122 4,024,242
6	My Home Energy Report		4,024,242 \$	89.993 \$	92,937 \$	15.265	252,729
7	Neighborhood Energy Saver	•	54,534 \$ 252,450 \$	89,993 \$ 390,785 \$	403,570 \$	54,943 \$	1,101,749
8	Residential New Construction	•	252,450	380,765 \$	403,570 \$	. \$	1,101,743
9	Save Energy and Water Kit	<del></del>	6,791,845 \$	5,429,790 \$	5,607,426 \$	924,793 \$	18,753,854
10	Lost Residential Revenues	;	6,791,845	3,429,790 3	3,007,420 \$	. \$	10,133,03
11	Found Residential Revenues	*	6,791,845 \$	5,429,790 \$	5,607,426 \$	924,793 \$	18,753,854
12	Net Lost Residential Revenues	,	0,732,043 7	3,423,133 4	3,007,120 4	***************************************	
	Non-Residential		2015	2016(a)	2017(a)	2018	Total
12	Energy Efficiency for Business	5	1.386.578 \$	2,353,629 \$	2,443,707 \$	374,092 \$	6,558,005,99
	Energy Efficient Ughling	i	420,420 \$	846,915	879,329 \$	126,026 \$	2,272,690.21
	Small Business Energy Saver	š	737,092 \$	1,703,045 \$	1,768,224 \$	315,792 \$	4,524,152,76
16	EnergyWise for Business	š	. \$	. \$	- 5		
	Not Lost Non-Residential Revenues	Š	2,544,090 \$	4,903,589 \$	5,091,260 \$	815,910 \$	13,354,849
18	Found Non-Residential Revenues	š	- \$	- \$	. \$	. \$	
19	Net Lost Non-Residential Revenues	\$	2,544,090 \$	4,903,589 \$	5,091,260 \$	815,910 \$	13,354,849
	DSDR		2015	2016(a)	2017(a)	2018	Total
20	DSDR	s	420,831 \$	145,979 \$	. \$	- \$	566,810
					2016 True Up Last Revenu		
Une	Residential		2015	2016(a)	2017(a)	2018	Total
1	Appliance Recycling Program		- \$	5,095 \$	12,308 \$	2,515 \$	19,918
2	Energy Education Program for Schools	\$	- \$	59,240 \$	135,532 \$	27,693 \$	222,465
3	Energy Efficient Lighting	\$	- \$	1,033,814 \$	2,116,981 \$	432,565 \$	3,583,361
3	Home Energy Improvement Program	\$		163,848 \$	370,108 \$	75,625 \$ 134,484 \$	609,580 6.553.007
4	My Home Energy Report	ş	- 5	5,418,524 \$	105.283	134.484 \$	149.602
5	Neighborhood Energy Saver	•	- 3	44,319 \$ 332,768 \$	658,165	21.513	1,012,44
6	Multi-Femily	•	- ;	74,198 \$	222,923 \$	45,550 \$	342,871
7	Residential Energy Assessments	:		298,122 \$	670,358 \$	138,975 \$	1,105,455
8	Residential New Construction	:	: :	362,685 \$	987,169 \$	201,709 \$	1,551,563
9	Save Energy and Water Kit	\$	: :	7,792,613 \$	5.278.826 \$	1,078,628 \$	14,150,067
10 11	Lost Rosidential Revenues Found Residential Revenues	š	- \$	. ,	. \$		
12	Net Lost Residential Revenues	\$	- \$	7,792,613 \$	5,278,826 \$	1,078,628 \$	14,150,067
	Non-Residential		2015	2016(a)	2017(a)	2018	Yotal
٠.	Business Energy Reports	•		191,245 \$	. \$	. \$	191,244,69
	Energy Efficiency for Business	š		1,638,505 \$	3,101,812 \$	632,371 \$	5,372,688,86
	Energy Efficient Lighting	š	- 1	246,438 \$	478.231 \$	97,498 \$	822,166.50
14	Small Business Energy Saver	š	. ;	1,100,746 \$	2,221,654 \$	452,932 \$	3,775,331.83
15	EnergyWise for Business	\$	- 1	7,298 \$	19,733 \$	4,023 \$	31,054.4
16	Net Lost Non-Residential Revenues	\$	. \$	3,184,232 \$	5,821,430 \$	1,186,824 \$	10,192,48
17	Found Non- Residential Revenues	\$	\$	(68,561) \$	(113,553) \$	(113,553) \$	(295,66
18		\$	- \$	3,115,672 \$	5,707,877 \$	1,073,272 \$	9,896,826
	DSDR		2015	2016(a)	2017(a)	2018	Total
19	DSDR	\$	- \$	115,745 \$	66,983	\$	182,728

Evans Exhibit 2, page 5

# For the Period January 1, 2015 December 31, 2016 Docket Number E-2, Sub 1174 North Carolina Net Lost Revenue True Up for Vintages 2015 - 2016

			nce Lost Revenue kWh \$			
Line	Residential	2015	2016(a)	2017(a)	2018	Total
1	Appliance Recycling Program	\$ .	s - s	18,628 \$	46,185 \$	64,812
2	Energy Education Program for Schools	\$ 8,729	\$ 14,741 \$	23,574 \$	24,481 \$	71,526
3	Energy Efficient Lighting			(797,366) \$	636,645 \$	(260,721)
4	Home Energy Improvement Program Multi-Family		\$ - \$ \$ (62,018) \$	28,255 \$	65,009 \$	93,264
6	My Home Energy Report	\$ (27,168) \$ (995,862)		92,297 \$	182,264	185,375 (995,862)
ž	Neighborhood Energy Saver	\$ (050,002)	· · ·	19.587 \$	15.265	34,852
8	Residential New Construction	\$ 39,904	\$ 61,770 \$	89,519 \$	54,943 \$	246,137
9	Save Energy and Water Kit	\$ -	\$ - \$	. \$	- \$	
10	Lost Residential Revenues	\$ (974,396)	\$ 14,493 \$	(525,507) \$	924,793 \$	(560,617)
11	Found Residential Revenues	<u> </u>	\$ - \$	- \$	- \$	
12	Net Lost Residential Revenues	\$ (974,396)	\$ 14,493 \$	(525,507) \$	924,793 \$	(560,617)
	Non-Residential	2015	2016(a)	2017(a)	2018	Total
13	Energy Efficiency for Business	_		214.022	374.092	588,114
14	Energy Efficient Lighting	:	:	(742,587)	126.028	(618,561)
15	Small Business Energy Saver			154,863	315,792	470,655
16	EnergyWise for Business			(69)	•	(69)
17	Net Lost Non-Residential Revenues		0	(373,771)	815,910	442,139
18	Found Non-Residential Revenues	\$ .	s - s	. \$	- \$	***************************************
19	Net Lost Non-Residential Revenues	\$ -	\$ - \$	(373,771) \$	815,910 \$	442,139
	DSDR	2015	2016(a)	2017(a)	2018	Total
20	DSDR	•	•	•	- \$	-
		Vintage 2016 Varia	nce Last Revenue kWh \$			
Line	Residential	2015	2016(a)	2017(a)	2018	Total
1	Appliance Recycling Program	<b>s</b> -	s - s	(191,440) \$	2.516 \$	(188.925)
2	Energy Education Program for Schools		7,224	38,520 S	27,693	73,437
3	Energy Efficient Lighting		1,224	(136,360) \$	432,565 \$	298,205
3	Home Energy Improvement Program		\$ (41) \$	247,384 \$	75,625	322,967
4	My Home Energy Report	<b>i</b> .	\$ (1,357,515) \$	- 5	134,484 \$	(1.223,032)
5	Neighborhood Energy Saver	<b>i</b> -	\$ . \$	21,028 \$		21,028
6	Multi-Family	<b>š</b> -	\$ (28,648) \$	122,503 \$	21,513 \$	115,368
7	Residential Energy Assessments		\$ - \$	161,398 \$	45,650 \$	206,948
8	Residential New Construction	\$ .	\$ 3,469 \$	234,020 \$	136,975 \$	374,464
9	Save Energy and Water Kit		\$ 30,075 \$	365,610 \$	201,709 \$	597,294
10	Lost Residential Revenues		\$ (1,345,437) \$	862,563 \$	1,078,628 \$	\$95,755
11	Found Residential Revenues	\$ ·	<u> </u>	- \$	- 1	<u> </u>
12	Not Lost Residential Revenues	\$ -	\$ (1,345,437) \$	862,563 \$	1,078,628 \$	595,755
	Non-Residential	2015	2016(a)	2017(a)	2018	Total
	D. J. C. D. J.					
	Business Energy Reports	•	191,245		****	191,245
	Energy Efficiency for Business Energy Efficient Ughting	•	(56)	1,206,407 (773,486)	632,371 97,498	1,838,722 (675,988)
		-	(6.366)	(773,486) 683,668	97,498 452,932	1,110,235
15	EnergyWise for Business	:	(11,515)	(7,380)	4,023	(14,872)
16	Nel Lost Non-Residential Revenues		173,308	1,089,209	1,186,824	2,449,341
17	Found Non-Residential Revenues		173,308	1,089,209	(113,553)	(113,552)
18	Nel Lost Non-Residential Revenues	\$ :	\$ 173,308 \$	1,089,209 \$	1,073,272 \$	2,335,789
	DSDR .	2015	2016(a)	2017(a)	2018	Total
19	DSDR		•		. \$	•

Duke Energy Carolinas, LLC Docket Number E-7, Sub 1192 North Carolina Net Lost Revenue for Vintages 2015 - 2020

						Vintage 2015				
Une	Residential		2015	2016	2017 <sup>(+)</sup>	2018	2019	2020		Total
1	Residential Energy Assessments	Ś	283,798 \$	477,738 5	473.182 5	163.880			ś	1.398.597
2	My Home Energy Report		10.047,270						-	10.047,270
3	Energy Efficient Appliances and Devices		3,690,771	6.169,123	6,116,216	2,163,569				18,139,680
4	HVAC Energy Elficiency		132.089	234,967	232,892	91,744				691,692
5	Appliance Recycle Program		150,786	279,840	277,098	115,671				823,394
6	Income Qualified Energy Efficiency and Weatherization Assistance		69,833	152,201	150,742	68,856				441,633
7	Multi-Family Energy Efficiency		136,658	691,177	676,879	285,091				1,979,805
8	Energy Efficiency Education		89,806	220,572	218,470	89,897				618,746
9	Total Lost Revenues		14,801,010	8,215,618	8,145,479	2,978,708				34,140,816
10	Found Residential Revenues *									
11	Net Last Residential Revenues	\$	14,401,010 \$	8,215,618 \$	8,145,479 \$	2,978,708			\$	34,140,816
	Non-Residential		2015	2016	2017 <sup>(4)</sup>	2018	2019	2020		Total
12	Nonresidential Smart Saver Custom Energy Assessments	\$	5,659 \$	22,194 \$	21,744 5	12,719			\$	62,316
13	Non Residential Smart Saver Custom		1,432,898	2,477,128	2,416,373	830,053				7,156,453
14	Energy Management Information Services									
15	Non Residential Smart Saver Energy Efficient Food Service Products		33,714	65,479	64,761	25,584				189,538
16			109,819	196,207	193,346	73,963				573,335
17	Non Residential Smart Saver Energy Efficient Lighting Products		1,439,011	2,400,931	2,289,093	769,611				6,898,646
18			51,265	82,153	80,494	25,843				239,755
19			58,585	173,258	170,131	83,735				485,709
20			14,723	25,414	24,674	8,676				73,487
21			1,832,775	3,599,216	3,572,716	1,515,918				10,520,625
22			178,960	387,139						566,099
23										
24	Total Lost Revenues		5,157,409	9,429,119	8,833,331	3,346,104				26,765,963
25	Found Non-Residential Revinues *									
26			5,157,409 \$	9,429,119 \$	8,833,331 \$	3.346.104				26.765.963

									Evans Exhibit 2, page 2
Une	Residential	Vintage 2016 2015		2016	2017 <sup>(4)</sup>	2018	2019	2020	Total
			s	193,357 5	336,600 \$	194,978		\$	724,934
	Residential Energy Assessments My Home Energy Report		,	13,052,806	330,000 3			•	13,052,806
	Energy Efficient Appliances and Devices			2,665,348	5,787,926	3,353,196			11,806,469
30	HVAC Energy Efficiency			132,531	334,414	193,675			660,620
31	Appliance Recycle Program			5,096	8,147	4,719			17,961
32	Income Qualified Energy Efficiency and Weatherization Assistance			115,500	242,117	140,230			497,847
	Multi-Family Energy Efficiency			347,362	698,540	409,459			1,449,361 618,064
	Energy Efficiency Education			142,639	301,026 7,708,770	174,350 4,464,606			28,828,063
35	Total Lost Revenues Found Residential Revenues *	-		16,654,687	7,708,770	4,464,606			10,020,003
	Pound Residential Revenues NetLost Residential Revenues	3 .	\$	16,654,687 \$	7,708,770 \$	4,464,606		\$	28,828,063
	Non-Residential	2015		2016	2017 <sup>(a)</sup>	2018	2019	2020	Total
	Nonresidential Smart Saver Custom Energy Assessments		\$	199,079 \$	389,585 \$	318,658		\$	907,321
	Non Residential Smart Saver Custom			914,009	1,703,790	1,398,549			4,016,348
	Energy Management Information Services			*****	66,328	54,035			145,252
	Non Residential Smart Saver Energy Efficient Food Service Products			24,889 46,952	103,028	83,640			233,620
42	Non Residential Smart Saver Energy Efficient HVAC Products			2,925,514	6,589,455	5,321,493			14,836,462
44	Non Residential Smart Saver Energy Efficient Lighting Products Non Residential Smart Saver Energy Efficient Pumps and Drives Products			36,698	66,558	54,453			159,908
	Non Residential Smart Saver Energy Efficient IT Products			59,904	75,403	61,613			196,920
	Non Residential Smart Saver Energy Efficient Process Equipment Products			4,731	10,652	8,811			24,194
	Small Business Energy Saver			2,145,932	4,346,981	3,511,109			10,004,022
	Smart Energy in Offices			227,062	418,553	•			645,616
49	Business Energy Report								82.348
75	EnergyWise for Business			15,922	36,788	29,639			31,252,013
76	Total Lost Revenues			6,602,693	13,807,121	10,841,999			31,202,013
77 78	Found Non-Residential Revenues * Net Lost Non-Residential Revenues		\$	6,602,893 \$	13,807,121 \$	10,841,999		5	31,252,013
		Vintage 2017	_						
Line	Residential	2015		2016	2017'4	2018	2019	2020	Total
78	Residential Energy Assessments			5	198,264 \$	274,951 \$	366,739 \$	75,609 \$	915,563
79	My Home Energy Report				14,455,527			•	14,455,527
80	Energy Efficient Appliances and Devices				3,387,819	5,136,360	6,635,996	1,570,511	16,730,686
81	Residential - Smart Saver Energy Efficiency Program				207,125	274,698	433,059	73,486	983,368
	Appliance Recycle Program					210,612		63,120	657,669
82							242,487		
82 83	Income Qualified Energy Efficiency and Weatherfration Assistance				141,450				2 421 105
82 83 84	Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency				535,630	744,297	946,417	204,951	2,431,295
82 83 84 85	Income Qualified Energy Efficiency and Weatherization Assistance Multi-Family Energy Efficiency Energy Efficiency Education				535,630 165,283	744,297 221,302	279,889	204,951 57,994	724,468
82 83 84 85 86	Income Qualified Energy Efficiency and Weatherstation Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenues	<del></del>			535,630	744,297		204,951 57,994 2,045,671	724,468 36,898,575
82 83 84 85 86 87	Income Qualified Energy Efficiency and Weathertration Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Ferning Rate Case Implementation	<del></del>	•	· · · · · ·	535,630 165,283	744,297 221,302 6,862,220	279,889 8,904,587	204,951 57,994 2,045,671 290,418	724,468 35,898,575 290,418
82 83 84 85 86	Income Qualified Energy Efficiency and Weatherstation Assistance Multi-Family Energy Efficiency Energy Efficiency Education Total Lost Revenues	5	. \$	- \$	535,630 165,283	744,297 221,302	279,889	204,951 57,994 2,045,671	724,468 36,898,575
82 83 84 85 86 87 88	Income Qualified Energy Efficiency and Weatheritation Assistance Multi-Lamily Energy Efficiency En		. \$	·	535,630 165,283 19,026,098	744,297 221,302 6,862,220 6,862,220 \$	279,889 8,904,587 8,904,387 \$	204,951 57,994 2,045,671 290,418 1,755,253 \$	724,468 36,898,575 290,418 36,608,157
82 83 84 85 86 87 88	Income Qualified Energy Efficiency and Westheritation Assistance Multi-Earnly Ferregy Efficiency Energy Efficiency Education Total Lost Revenues Lost Revenue Decement Pending Rate Case Implementation Found Residential Revenues Lost Revenue Centerners Energy Efficiency Expland Residential Revenues  The Provide Residential Revenues  The Providence Revenues  The Pro	2015	. \$	2016	535,630 165,283 19,086,098 19,086,098 \$	744,297 221,302 6,862,220 6,862,220 \$	279,889 8,904,587 8,904,587 \$	204,951 57,994 2,045,671 290,418 1,755,253 \$	724,468 36,898,575 290,418 36,608,157
82 83 84 85 86 87 88 89	Income Austhed Genergy Efficiency and Weatherisation Assistance Multi-Samily Energy Efficiency Energy Efficiency Education Total Loss Resembles Cost Resemblescensors Pending Rate Case Implementation Found Residential Resembles Net Lost Residential Revenue's  Non-Residential Smart Saver Custom Energy Assessments  Non-Residential Smart Saver Custom Energy Assessments		. \$	·	535,630 165,283 19,086,098 19,086,098 \$	744,297 221,302 6,862,220 6,862,220 \$	279,889 8,904,587 6,904,587 \$	204,951 57,994 2,045,671 290,418 - 1,735,253 \$	724,468 36,898,575 290,418 36,608,137 Total
82 83 84 85 86 87 88 89 90 91	Income Austhed Genergy Efficiency Multi-Family Energy Efficiency Energy Efficiency Education Total Loss Resemble Loss Resemue Decrement Pending Rate Case Implementation Found Residential Resemues  Not Loss Residential Revenues  Non-Residential Smart Saver Custom Energy Assessments Non-Residential Smart Saver Custom Energy Sm		. \$	2016	535,630 165,283 19,086,098 19,086,098 \$	744,297 221,302 6,862,220 6,862,220 \$	279,889 8,904,587 8,904,587 \$	204,951 57,994 2,045,671 290,418 1,755,253 \$ 2020 139,226 \$ 435,511	724,468 36,898,575 290,418 36,608,157
82 83 84 85 86 87 88 89 90 91	Income Qualified Energy Efficiency and Weatheritation Assistance Multil Jamily Energy Efficiency Energy Efficiency Education Total Lord Reviews Lost Revenue Decision on Predict Rate Case Implementation Lost Reviews Decision on Predict Rate Case Implementation Lost Revidential Revenues  Not Lost Residential Revenues  Non-Residential  None-Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Assessments Rone Residential Smart Saver Custom Energy Rosessments Rose Rosessment Rosessment Rosessments Rose Rosessment Rosessment Rosessment Rosessments Rose Rosessment Ro		- \$	2016	515,630 165,283 19,086,098 19,086,098 \$ 2017 <sup>(A)</sup> 220,191 \$ 435,407	744,297 221,302 6,862,220 6,862,220 \$ 2018	279,889 8,904,587 6,904,587 \$ 2019 355,020 \$ 916,764	204,951 57,994 2,045,671 290,418 1,735,253 \$ 2020 139,226 \$ 435,511	72.445 36,85.575 120,418 36,606,137 Total
82 83 84 85 86 87 88 89 90 91 92 93	Income Austhed Genergy Efficiency Multi-Family Energy Efficiency Energy Efficiency Education Total Loss Resemble Loss Resemue Decrement Pending Rate Case Implementation Found Residential Resemues  Not Loss Residential Resemues  Not Loss Residential Smart Saver Custom Energy Assessments Non-Residential Smart Saver Custom Energy Management Information Services		- \$	2016	515,610 165,283 19,086,098 19,086,098 5 19,086,098 5 2017 <sup>(s)</sup> 220,191 5 415,407	744,297 721,302 6,862,220 5 6,862,220 \$ 2018 358,289 \$ 871,334	279,889 8,904,587 8,904,587 \$ 2019 355,010 \$ 916,761 69,365	204,951 57,994 2,045,671 290,418 1,755,253 \$ 2020 139,226 \$ 435,511 	724,455 36,898,975 290,418 36,608,157 Total 1,072,725 2,659,016
82 83 84 85 86 87 88 89 90 91 92 93	Income Qualified Energy Efficiency and Weatheritation Assistance Multificating Fenge Efficiency Energy Efficiency Education Total Loss Reservation Loss Revenue Georgement Pensing Rate Case Implementation Found Residential Revenues  Not Loss Residential Revenues  Room-Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Case Smart Saver Custom Non Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Efficient Energy Conducts Non Residential Smart Saver Custom Energy Efficient Energy Efficient Products Non Residential Smart Saver Custom Energy Efficient Energy Energy Efficient Energy Efficient Energy Energy Efficient Energy Efficient Energy Energy Efficient Energy Energy Efficient Energy Energy Energy Efficient Energy Energ		- \$	2016	515,510 165,283 19,016,098 19,016,098 5 19,086,098 5 2017 <sup>(A)</sup> 220,191 415,407 28,410 61,539	744,297 221,302 6,862,220 6,862,220 \$ 2018 356,289 \$ 871,314 40,771 110,255	279,889 8,904,587 6,904,587 \$ 2019 355,020 \$ 916,764 69,365 131,612	204,951 57,994 2,045,671 290,418 1,735,253 \$ 2020 139,226 \$ 435,511	724,455 36,898,575 290,418 36,608,157 Total 1,072,725 2,659,016 151,142 352,284
82 83 84 85 86 87 88 89 90 91 92 93 94 95	Income Auxiliard Energy Efficiency and Weatheritation Assistance Multifarmity Energy Efficiency Education Total Loss Resemble Efficiency Education Total Loss Resemble Energy Efficiency Education Total Loss Resemble Energy English Energy Strong Residential Revenues 1  Not Loss Residential Revenues 1  Non-Residential Smart Save Custom Energy Assessments Non-Residential Energy English Energy English Energy English Energy English English Energy English E		- \$	2016	515,510 165,283 19,086,098 19,086,098 5 2017 <sup>(A)</sup> 220,191 5 415,407 2,410 61,539 6,203,869	744,297 721,302 6,862,220 5 6,862,220 \$ 2018 358,289 \$ 871,334	279,889 8,904,587 8,904,587 \$ 2019 355,010 \$ 916,761 69,365	204,951 57,954 2,045,671 290,418 1,755,253 \$ 2020 139,226 \$ 435,511 12,596 48,778	724,455 36,898,975 290,418 36,608,157 Total 1,072,725 2,659,016
82 83 84 85 86 87 88 89 90 91 92 93 94 95	Income Qualified Energy Efficiency and Weatheritation Assistance Multifiarable Teage Efficiency Energy Efficiency Education Total Loss Revenue Loss Revenue Decrement Pensing Rate Case Implementation Found Residential Revenues  Not Loss Revenue Services  Non-Residential Revenues  Non-Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Efficient Evenues  Energy Management Information Services Efficient Evenues  Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue  Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue  N		- \$	2016	515,510 165,283 19,016,098 19,016,098 5 19,086,098 5 2017 <sup>(A)</sup> 220,191 415,407 28,410 61,539	744,297 221,302 6,862,220 5,862,220 \$ 2018 2018 2018 2018 2018 2018 2018 2018	279,889 8,904,887 8,904,587 \$ 5,904,587 \$ 2019 355,020 916,764 69,865 131,612 8,710,546	204,951 57,994 2,045,671 290,418 1,755,253 5 2020 139,226 435,511 12,596 48,778 41,44,248	724,455 36,898,575 290,418 36,608,157 Total 1,072,725 2,659,016 151,142 352,284 29,374,957
82 83 84 85 86 87 88 89 90 91 92 93 94 95	Income Qualified Energy Efficiency and Weatheritation Assistance Multi-Earthy Energy Efficiency Energy Efficiency Education Total Long Receives The Committee of the Committee o		. \$	2016	515,510 165,283 19,086,098 19,086,098 5 19,086,098 5 2017 <sup>(4)</sup> 220,191 435,407 2,410 61,639 6,003,69 5,808	744,297 221,302 6,862,220 5 6,862,220 \$ 2018 2018 358,289 \$ 871,334 40,771 110,255 10,799,304 127,509	279,889 8,904,587 8,504,587 \$ 2019 355,010 916,761 69,865 131,612 8,730,546 91,363	204,951 57,994 2,045,671 290,418 - 1,755,253 \$ 2020 139,226 435,511 - 12,596 48,778 4,144,248 8,742	724,485 36,895,575 290,418 36,606,137 Total 1,072,725 2,659,018 151,441 355,244 355,244 34,421 34,421
82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	Income Qualified Energy Efficiency and Weatheritation Assistance Multifiarable Teage Efficiency Energy Efficiency Education Total Loss Revenue Loss Revenue Decrement Pensing Rate Case Implementation Found Residential Revenues  Not Loss Revenue Services  Non-Residential Revenues  Non-Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Efficient Evenues  Energy Management Information Services Efficient Evenues  Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue  Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue Non Residential Smart Saver Evenue  N		• \$	2016	535,630 165,283 19,086,098 19,086,698 5 2017 <sup>(4)</sup> 220,191 5 435,407 28,410 61,639 5,200,869 5,808 8,20 6,600,869 6,600,669	744,297 221,100 6,862,220 5 6,862,220 5 2018 356,289 5 71,134 40,771 110,255 10,799,304 127,509 162 121,172 774	279,849 8,904,587 6,904,587 5,904,587 2019 355,010 916,764 69,865 131,612 8,710,546 91,363 186 10,555 818	204,951 57,994 2,045,671 290,418 1,755,253 5 2020 139,216 435,511 112,596 48,778 41,44,248 68,742 81 4,015 686	724,455 36,895,575 250,418 36,608,137 Total 1,072,725 2,655,018 151,142 352,246 23,749,655 43,847,135 34,901 2,344
82 83 84 85 86 87 88 89 90 91 93 94 95 97 98	Income Qualified Energy Efficiency and Weatheritation Assistance Multi-Lamily Energy Efficiency Energy Efficiency Education Total Long Revenue  Income Committee Commi		· \$	2016	515,610 165,283 19,086,098 19,086,098 5 2017 <sup>(4)</sup> 220,191 415,407 24,410 416,439 6,200,859 58,808 66 66 66 2,103,337	744,297 721,302 6,862,220  6,862,220 5 2018 358,289 571,374 40,771 110,255 10,799,304 122,509 162 121,172 774 3,774,927	279,849 8,904,587 8,904,587 \$ ,504,587 \$ ,504,587	204,951 57,994 2,045,671 290,418 1,755,253 5 2020 139,226 435,511 12,596 48,778 4,144,248 68,742 81 4,015	724/45 36,865,157 290,418 36,606,137 Total 1,072,725 2,659,016 151,142 352,246 29,77,900 344,213 44,000 2,244 11,669,648
82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98	Income Qualified Energy Efficiency and Weatheritation Assistance Multi-Lamily Energy Efficiency Energy Efficiency Education Total Long Revenue Control Assistance of Control Control Control Energy Efficiency Not Lost Residential Revenues  **Not Lost Residential Revenues  **Non-Residential Smart Saver Countom Energy Assessments Non Residential Smart Saver Countom Energy Assessments Non Residential Smart Saver Countom Energy Management Information Smart Saver Non Residential Smart Saver Countom Energy Management Information Smart Saver Non Residential Smart Saver Energy Efficient Products Non Residential Smart Saver Energy Efficient Violage Todds Non Residential Smart Saver Energy Ef		- \$	2016	535,630 165,283 19,086,098 19,086,698 5 2017 <sup>(4)</sup> 220,191 5 435,407 28,410 61,639 5,200,869 5,808 8,20 6,600,869 6,600,669	744,297 221,100 6,862,220 5 6,862,220 5 2018 356,289 5 71,134 40,771 110,255 10,799,304 127,509 162 121,172 774	279,849 8,904,587 6,904,587 5,904,587 2019 355,010 916,764 69,865 131,612 8,710,546 91,363 186 10,555 818	204,951 57,994 2,045,671 290,418 1,755,253 5 2020 139,216 435,511 112,596 48,778 41,44,248 68,742 81 4,015 686	724/45 36,865,157 290,418 36,606,137 Total 1,072,725 2,659,016 151,142 352,246 29,77,900 344,213 44,000 2,244 11,669,648
82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 90 100 101	Income Qualified Energy Efficiency and Westheritation Assistance Multifiarmity Energy Efficiency Energy Efficiency Efficiency Total Loss Revenue Total Revenue Operation Predicing Rate Case Implementation Found Residential Revenues  Non-Residential Revenues  Non-Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Total Revenues  Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient Upsing Products Non Residential Smart Saver Energy Efficient Products Non Residential Smart Saver Energy Efficient Products Non Residential Smart Saver Professional Energy Inspection Smart Energy In Offices Smart Energy In Offices Smart Energy Report  Washington Total Saver Energy Efficient Products Smart Energy Report		· \$	2016	515,610 165,28 19,086,098 19,086,098 19,086,098 5 2017 <sup>(4)</sup> 220,191 415,407 12,410 16,639 6,20,859 5,808 66 66 62,203,310 209,310	744,297 221,302 6,862,220 . 6,862,220 5 2018 258,289 571,314 40,771 110,255 10,299,304 127,509 162 12,172 774 3,774,927 149,332	279,849 8,904,587 6,904,587 5,904,587 2019 355,020 916,761 69,365 131,612 8,730,546 193,363 136 10,555 818 4,099,390	204,951 57,994 2,045,671 290,418 1,735,253 5 2020 139,216 435,511 12,596 48,778 4,144,148 81 4,015 656 1,591,593	724,458 36,805,757 200,418 36,606,137 Total 1,077,715 2,659,016 151,142 352,284 23,774,967 344,211 36,901 2,244 11,669,645 358,692
82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103	Income Qualified Energy Efficiency and Weatheritation Assistance Multi-Lamily Energy Efficiency Energy Efficiency Education Total Loss Reservation Loss Revenue Gesterment Pending Rate Case Implementation Found Assistantial Revenues  Not Loss Residential Revenues  Room-Residential  Non-Residential Shart Sear Custom Energy Assessments Non Residential Shart Sear Custom Energy Assessments Non Residential Shart Sear Custom Shart Sear Custom Non Residential Shart Sear Custom Shart Sear Custom Non Residential Shart Sear Custom Shart Sear Shart Shart Sear Shart Shart Sear Shart Shart Sear Shart		\$	2016	515,610 165,283 19,086,098 19,086,098 5 2017 <sup>(4)</sup> 220,191 415,407 28,410 61,639 6,200,849 5,808 81 201,317 6,200,849	744,297 221,100 6,862,220 5,862,220 5 2018 2018 2018 2018 2018 2019 2019 2019 2019 2019 2019 2019 2019	279,849 8.904,587 8.904,587  8.904,587  2019  155,020 \$ 916,764 69,365 1311,612 8,710,546 93,763 146,099,390 162,762	204,951 57,994 2,045,671 290,418 1,755,233 5 2020 139,226 5 435,511 12,596 437,78 4,144,248 68,742 81 4,016 61,591,593 	724,452 36,805,575 290,418 36,606,137 Total 1,072,725 2,659,018 151,142 352,244 29,374,957 348,421 512 3,54,602 2,344,621 513 3,54,602 2,344,621 513 3,54,602 3,54,602 4,602,644
82 83 84 85 86 87 88 89 91 92 94 95 96 97 93 99 100 101 102	Income Qualified Energy Efficiency and Weatheritation Assistance Multi-Lamily Energy Efficiency Energy Efficiency Education Total Long Receives Total Long Receives Total Long Receives Total Long Receives Total Residential Recenues  **Not Lost Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Insidential Smart Saver Energy Efficient Foods Service Products Non Residential Smart Saver Energy Efficient Foods Service Products Non Residential Smart Saver Energy Efficient Foods Non Residential Smart Saver Energy Efficient Products Non Residential Smart Saver Energy Efficient Products Non Residential Smart Saver Energy Efficient Process Non Residential Smart Saver Energ		- \$	2016	515,610 165,28 19,086,098 19,086,098 19,086,098 5 2017 <sup>(4)</sup> 220,191 415,407 12,410 16,639 6,20,859 5,808 66 66 62,203,310 209,310	744,297 221,302 6,862,220 . 6,862,220 5 2018 258,289 571,314 40,771 110,255 10,299,304 127,509 162 12,172 774 3,774,927 149,332	279,849 8,904,587 6,904,587 5,904,587 2019 355,020 916,761 69,365 131,612 8,730,546 193,363 136 10,555 818 4,099,390	204,551 57,594 2,045,671 290,418 1,755,253 5 2020 139,226 435,511 12,556 48,778 41,44,248 68,742 41,44,248 68,742 41,44,248 68,742 61,531,593 65,193 65,193 65,193,975	724,455 36,895,575 200,418 36,606,137 Total 1,072,725 2,659,016 151,142 352,248 29,774,967 348,421 511,554,693 11,665,448 480,644 480,505,296
82 83 84 85 86 87 88 89 91 92 93 94 95 96 97 100 101 102 103 104	Income Qualified Energy Efficiency and Weatheritation Assistance Multification Energy Efficiency Energy Efficiency Efficiency Energy Efficiency Efficiency Total Loss Revenue Loss Revenue Geremen Pensing Rate Case Implementation Found Residential Revenues  Non-Residential Revenues  Non-Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Efficient Evenues Energy Management Information Server Energy Management Information Server Energy Management Information Server Energy Management Information Server Energy Efficient Evenues Non-Residential Smart Saver Energy Efficient Evenue Non-Residential Smart Saver Energy Efficient Evenues Non-Residential Smart Saver Energy Efficient Towards Non-Residential Smart Saver Energy Efficient Towards Non-Residential Smart Saver Energy Efficient Towards Non-Residential Smart Saver Energy Efficient Products Non-Residential Smart Sav		- \$	2016	515,610 165,283 19,086,098 19,086,098 5 2017 <sup>(4)</sup> 220,191 415,407 28,410 61,639 6,200,849 5,808 81 201,317 6,200,849	744,297 221,100 6,862,220 5,862,220 5 2018 2018 2018 2018 2018 2019 2019 2019 2019 2019 2019 2019 2019	279,849 8.904,587 8.904,587  8.904,587  2019  155,020 \$ 916,764 69,365 1311,612 8,710,546 93,763 146,099,390 162,762	204,951 57,994 2,045,671 290,418 1,755,233 5 2020 139,226 5 435,511 12,596 437,78 4,144,248 68,742 81 4,016 61,591,993 	724,455 36,895,575 200,418 36,606,137 Total 1,072,725 2,659,016 151,142 352,248 29,774,967 348,421 511,554,693 11,665,448 480,644 480,505,296
82 83 84 85 86 87 88 89 91 92 93 94 95 96 97 100 101 102 103 104	Income Qualified Energy Efficiency and Weatheritation Assistance Multi-Lamily Energy Efficiency Energy Efficiency Education Total Long Revenue  Income Committee Commi		- \$	2016	515,610 165,283 19,086,098 19,086,098 5 2017 <sup>(4)</sup> 220,191 415,407 28,410 61,639 6,200,849 5,808 81 201,317 6,200,849	744,297 221,100 6,862,220 5,862,220 5 2018 2018 2018 2018 2018 2019 2019 2019 2019 2019 2019 2019 2019	279,849 8.904,587 8.904,587  8.904,587  2019  155,020 \$ 916,764 69,365 1311,612 8,710,546 93,763 146,099,390 162,762	204,551 57,594 2,045,671 290,418 1,755,253 5 2020 139,226 435,511 12,556 48,778 41,44,248 68,742 41,44,248 68,742 41,44,248 68,742 61,531,593 65,193 65,193 65,193,975	724,458 36,805,757 200,418 36,606,137 Total 1,077,715 2,659,016 151,142 352,284 23,774,967 344,211 36,901 2,244 11,669,645 358,692

\* Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

		Vintage 20	16								Evans Exhibit 2, page 3
Une	Residential	20		2016		2017(1)		2018	2019	2020	Total
108	Residential Energy Assessments						5	204,104 \$	353,963 \$	353,514 6	911.581
	My Home Energy Report						•	15.088.601	333,343 3	333,344 3	15,088,601
110	Energy Efficient Appliances and Devices							4,301,858	4,054,825	9,085,760	17.442.483
111	Residential - Smart Saver Energy Efficiency Program							171.065	213,538	337,373	721,976
112	Appliance Recycle Program										724514
	Income Qualified Energy Efficiency and Weatherlastion Assistance							130,598	246,384	252,956	629,937
114	Multi-Family Energy Efficiency							500,983	1,165,290	1,087,381	2,753,653
115	Energy Efficiency Education							122,869	260,025	231,584	614,478
	Tatal Last Revenues							20,520,118	6,294,025	11,348,568	38,162,710
	Lost Revenue Decrement Pending Rate Case Implementation									1,611,124	1,611,124
	Found Residential Revenues *										
119	Net Lost Residential Revenues	\$	- 5		. \$		· \$	20,520,118 \$	6,294,025 \$	9,737,443 \$	36,551,586
	Non-Residential	20	15	2016		2017 <sup>(4)</sup>		2018	2019	2020	Total
120	Nonresidential Smart Saver Gustom Energy Assessments										
	Non-Residential Smart Saver Custom						\$	217 \$ 461,343	549,855 \$ 2,688,812	849 \$ 740,662	550,916 3,890,816
	Energy Management Information Services							401,343	2,688,812	740,662	
	Non Residential Smart Saver Energy Efficient Food Service Products							13.485	26,794	21,497	61,776
	Non Residential Smart Saver Energy Efficient HVAC Products							50,511	134,931	114,693	300,135
	Non Residential Smart Saver Energy Efficient Lighting Products							4,078,660	2,987,074	6,538,710	13,604,445
	Non Residential Smart Saver Energy Efficient Pumps and Drives Products							66,649	49,390	84,066	200,106
	Non Residential Smart Saver Energy Efficient IT Products							185	117,948	859	118,991
	Non Residential Smart Saver Energy Efficient Process Equipment Products							6,501	11,082	10,246	27.829
	Non Residential Smart Saver Performance Incentive							20.243	160,962	82,058	263,263
129	Small Business Energy Saver							1,772,873	3,493,883	3,374,219	8,640,976
130	Smart Energy in Offices										
								39,733			39,733
131	Business Energy Report							39,733	:	:	39,733

6,575,151 \$ 10,271,966 \$

<sup>\*</sup> round revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

									Evans Exhibit 2, page 4
		Vintage 2019		. 44					Total
Une	Residential	2013	2016	2017(4	2018		2019	2020	Total
						5	178.309 5	287,735 \$	466,044
	Residential Energy Assessments						15.206,604		15,206,604
	My Home Energy Report Energy Efficient Appliances and Devices						2,553,378	4,303,976	6,857,354
	Residential - Smart Saver Energy Efficiency Program						129,065	158,904	287,959
	Appliance Recycle Program								
	Income Qualified Energy Efficiency and Weatherization Assistance						99,398	185,634	285,032
	Multi-Family Energy Efficiency						496,951	904,718	1,401,669
	Energy Efficiency Education						119,499	261,545	381,044
	Total Lost Revenues						18,783,204	6,102,512	24,885,717
	Lost Revenue Decrement Pending Rate Case Implementation							866,357	866,357
	Found Residential Revenues *								
	Net Lost Residential Revenues	3 .	\$	· \$ ·		*	18,783,204 \$	3,236,156 \$	24,019,360
	Non-Residential	2015	2016	2017 <sup>(4)</sup>	2018		2019	2020	Total
		2015	2016	2017 <sup>(4)</sup>	2018				
	Norresidential Smart Saver Custom Energy Assessments	2015	2016	2017 <sup>(4)</sup>	2018	5	145,699 \$	300,502 \$	446,201
150	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom	2015	2016	2017 <sup>(4)</sup>	2018	5			
150 151	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services	2015	2016	2017 <sup>(4)</sup>	2018	5	145,699 \$ 1,059,600	300,502 \$ 2,335,850	446,201 3,395,450
150 151 152	Nonrealdential Smart Saver Custom Energy Assessments Non Reddential Smart Saver Custom Energy Hanagement Information Services Non Realdential Smart Saver Energy Efficient Food Service Products	2015	2016	2017 <sup>(4)</sup>	2018	\$	145,699 \$ 1,059,600 146,435	300,502 \$ 2,335,850 153,750	446,201 3,395,450 300,185
150 151 152 153	Nonrealdential Smart Saver Custom Energy Assessments Non Realdential Smart Saver Custom Energy Assessment Information Services Non Realdential Smart Saver Energy Efficient Food Service Products Non Realdential Smart Saver Energy Efficient Pood Service Products Non Realdential Smart Saver Energy Efficient Pood Service Non Realdential Smart Saver Energy Efficient Pood Products	2015	2016	2017 <sup>(4)</sup>	2018	5	145,699 \$ 1,059,600 146,435 193,528	300,502 \$ 2,335,850 153,750 322,214	446,201 3,395,450
150 151 152 153 154	Noor esidential Smart Saver Custom Energy Assessments Noon Residential Smart Saver Custom Energy Management Information Services Energy Management Information Services Rose Residential Smart Saver Energy Efficient Ploud Service Products Noon Residential Smart Saver Energy Efficient Ploud Service Products Noon Residential Smart Saver Energy Efficient Information Understanding Services Residential Smart Saver Energy Efficient Uptinic Products	2015	2016	2017 <sup>(4)</sup>	2018	5	145,699 \$ 1,059,600 146,435	300,502 \$ 2,335,850 153,750	446,201 3,395,450 , 300,185 515,742
150 151 152 153 154 159	Noor euidencial Smart Saver Custom Energy Assessments Noor euidencial Smart Saver Custom Energy Management Information Services Noor Residential Smart Saver Energy Efficient Food Service Products Noor Residential Smart Saver Energy Efficient WAR Products Noor Residential Smart Saver Energy Efficient WAR Products Noor Residential Smart Saver Energy Efficient Lighting Products Noor Residential Smart Saver Energy Efficient Lighting Products Noor Residential Smart Saver Energy Efficient Dumps and Onlives Products	2015	2016	2017 <sup>(a)</sup>	2018	\$	145,699 \$ 1,059,600 146,435 193,528 1,921,414	300,502 \$ 2,335,850 . 153,750 322,214 3,497,532	446,201 3,395,450 300,185 515,742 5,418,946
150 151 152 153 154 155	Noor esidential Smart Saver Custom Energy Assessments Noor Residential Smart Saver Custom Energy Manageman Information Service Hoop Residential Smart Saver Energy Efficient Food Service Products Noor Residential Smart Saver Energy Efficient Food Service Products Noor Residential Smart Saver Energy Efficient Food Service Products Noor Residential Smart Saver Energy Efficient Food Service Noor Residential Smart Saver Energy Efficient Foods Noor Residential Smart Saver Energy Efficient Foods Noor Residential Smart Saver Energy Efficient Foods	2015	2016	2017 <sup>(4)</sup>	2018	s	145,699 \$ 1,059,600 146,435 193,528 1,921,414 77,800	300,502 \$ 2,335,850 . 153,750 322,214 3,497,532 214,313	446,201 3,395,450 300,185 515,742 5,418,946 292,113
150 151 152 153 154 159 156	Noor euidencial Smart Saver Custom Energy Assessments Noor euidencial Smart Saver Custom Energy Management Information Services Noor Residential Smart Saver Energy Efficient Pool Service Products Noor Residential Smart Saver Energy Efficient WAR Products Noor Residential Smart Saver Energy Efficient WAR Products Noor Residential Smart Saver Energy Efficient Lighting Products Noor Residential Smart Saver Energy Efficient Lighting Orlives Products Noor Residential Smart Saver Energy Efficient IT Products Noor Residential Smart Saver Energy Efficient IT Products	2015	2016	2017 <sup>64</sup>	2018	\$	145,699 \$ 1,059,600  146,435 193,528 1,921,414 77,800 77,654	300,502 \$ 2,335,850  153,750 322,214 3,497,532 214,313 125,792	446,201 3,395,450 300,185 515,742 5,418,946 292,113 203,445 57,337 1,032,039
150 151 152 153 154 155 156 157	Noor esidential Smart Saver Custom Energy Assessments Noor Residential Smart Saver Custom Energy Management Information Services Hone Residential Smart Saver Energy Efficient Flood Service Products Noor Residential Smart Saver Energy Efficient Flood Service Products Noor Residential Smart Saver Energy Efficient Flood Service Products Noor Residential Smart Saver Energy Efficient Flood Service Products Noor Residential Smart Saver Energy Efficient Flood And Oniver Products Noor Residential Smart Saver Energy Efficient Flood Service Products Noor Residential Smart Saver Energy Efficient Flood Service Repulsement Products Noor Residential Smart Saver Energy Efficient Process Equipment Products Noor Residential Smart Saver Energy Efficient Process Equipment Products	2015	2016	2017 <sup>fel</sup>	2018	\$	145,699 \$ 1,059,600 - 146,435 193,528 1,921,414 77,800 77,654 18,722	300,502 \$ 2,335,850 153,750 322,214 3,497,532 214,313 125,792 39,115	446,201 3,395,430 300,185 515,742 5418,946 292,113 203,445 57,837
150 151 152 153 154 155 156 157 158 158	Noor exidencial Smart Saver Custom Energy Assessments Noor exidencial Smart Saver Custom Energy Management Information Services Noor Residential Smart Saver Energy Efficient Food Service Products Noor Residential Smart Saver Energy Efficient WARC Products Noor Residential Smart Saver Energy Efficient WARC Products Noor Residential Smart Saver Energy Efficient Dupps and Onlives Products Noor Residential Smart Saver Energy Efficient Pumps and Onlives Products Noor Residential Smart Saver Energy Efficient TIP products Noor Residential Smart Saver Energy Efficient TP Foods. Noor Residential Smart Saver Energy Efficient TP Foods Explane TP Products Noor Residential Smart Saver Energy Efficient TP Foods Explane TP Products Noor Residential Smart Saver Energy Efficient TP Foods Explane TP Products Noor Residential Smart Saver Energy Efficient TP Foods Explane TP Products	2015	2016	2017 <sup>64</sup>	2018	\$	145,699 \$ 1,059,600  146,435 193,528 1,921,414 77,800 77,654 18,722 375,261	300,502 \$ 2,335,850  153,750  322,214  3,497,532  214,313  125,792  39,115  656,829	446,201 3,395,450 300,185 515,742 5,418,946 292,113 203,445 57,337 1,032,039
150 151 152 153 154 155 156 157 158 158 159	Noor esidential Smart Saver Custom Energy Assessments Noor Residential Smart Saver Custom Energy Management Information Services Hook Residential Smart Saver Energy Efficient Food Service Products Hook Residential Smart Saver Energy Efficient Food Service Products Noor Residential Smart Saver Energy Efficient HOMAC Products Noor Residential Smart Saver Energy Efficient Lighting Products Noor Residential Smart Saver Energy Efficient Tip Code, 11  Noor Residential Smart Saver Energy Efficient Food Service Products Noor Residential Smart Saver Energy Efficient Process Equipment Products Noor Residential Smart Saver Energy Efficient Process Equipment Products Small Bollman Saver Energy Saver	2015	2016	2017 <sup>fel</sup>	2018	\$	145,699 \$ 1,059,600  146,435 193,528 1,921,414 77,800 77,654 18,722 375,261 1,523,101	300,502 \$ 2,335,850  153,750  322,214  3,497,532  214,313  125,792  39,115  656,829	446,201 3,395,450 300,185 515,742 5,418,946 292,113 203,445 57,837 1,032,089 3,994,639
150 151 152 153 154 159 156 157 158 158 159	Noor esidencial Smart Saver Custom Energy Assessments Noor esidencial Smart Saver Custom Energy Management Information Services Noor Residential Smart Saver Energy Efficient Pool Service Products Noor Residential Smart Saver Energy Efficient WARC Products Noor Residential Smart Saver Energy Efficient WARC Products Noor Residential Smart Saver Energy Efficient Warp And Onlives Products Noor Residential Smart Saver Energy Efficient Purps and Onlives Products Noor Residential Smart Saver Energy Efficient Tip Products Noor Residential Smart Saver Energy Efficient Tip Products Noor Residential Smart Saver Energy Efficient Tip Code Supprenni Products Noor Residential Smart Saver Energy Efficient Tip Code Supprenni Products Smart Energy in Offices Smart Energy in Offices Suppress Energy in Offices	2015	2016	2017 <sup>fed</sup>	2018	s	145,699 \$ 1,639,600  146,435 193,528 1,921,414 77,800 77,654 18,722 375,261 1,523,101	300,502 \$ 2,335,850 153,750 322,214 3,497,532 214,313 125,792 39,115 656,829 2,471,538 76,675	446,201 3,795,450 200,185 515,742 5418,746 290,119 203,445 57,837 1,022,089 1,994,639
150 151 152 153 154 155 156 157 158 158 159 160	Nonresidental Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Hone Residential Smart Saver Energy Efficient Food Service Products Hone Residential Smart Saver Energy Efficient VAVIC Products Non Residential Smart Saver Energy Efficient Proposed or Mores Products Non Residential Smart Saver Energy Efficient Products Non Residential Smart Saver Programme Incommence Incentive Small Bouriess Energy Saver Smart Energy (Offices Business Energy Saver	2015	2016	2017 <sup>64</sup>	2018	ş	145,699 \$ 1,659,600  146,435 193,528 1,921,414 77,604 18,722 375,261 1,523,101	300,502 \$ 2,335,850  153,750 322,214 3,497,532 114,313 125,792 39,115 656,829 2,471,538	446,201 3,395,450 300,185 515,742 5.418,946 292,113 203,445 57,837 1,022,099 3,994,639
150 151 152 153 154 155 156 157 158 158 159 160 161	Noor esidential Smart Saver Custom Energy Assessments Noor Residential Smart Saver Custom Energy Management Information Service Roop Residential Smart Saver Design Efficient Food Service Products Noor Residential Smart Saver Design Efficient Food Service Products Noor Residential Smart Saver Design Efficient Upping Products Noor Residential Smart Saver Design Efficient Purphysia and Drives Products Noor Residential Smart Saver Design Efficient Purphysia and Drives Products Noor Residential Smart Saver Design Efficient Products Small Bources Single Saver Small Bources Single Saver Small Bources Offices Foregy Vivine for Business Total Loss Reverses	2015	2016	2017 <sup>64</sup>	2018	s	145,699 \$ 1,639,600  146,435 193,528 1,921,414 77,800 77,654 18,722 375,261 1,523,101	300,502 \$ 2,335,850 153,750 322,214 3,497,532 214,313 125,792 39,115 656,829 2,471,538 76,675	446,201 3,795,450 200,185 515,742 5418,746 290,119 203,445 57,837 1,022,089 1,994,639
150 151 152 153 154 159 156 157 158 158 159 160 161 162 163	Nonresidental Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Hone Residential Smart Saver Energy Efficient Food Service Products Hone Residential Smart Saver Energy Efficient VAVIC Products Non Residential Smart Saver Energy Efficient Proposed or Mores Products Non Residential Smart Saver Energy Efficient Products Non Residential Smart Saver Programme Incommence Incentive Small Bouriess Energy Saver Smart Energy (Offices Business Energy Saver	2015	2016	2017 <sup>cd</sup>	2018	s	145,699 \$ 1,639,600  146,435 193,528 1,921,414 77,800 77,654 18,722 375,261 1,523,101	300,502 \$ 2,335,850  153,750 322,214 3,497,532 114,313 125,792 39,115 656,829 2,471,538	446,201 3,395,450 300,185 515,742 5.418,946 292,113 203,445 57,837 1,022,099 3,994,639

\* Found Revenues - See Evans Exhibit 4

(a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation

											Evans Exhibit 2, page 5
		Vintage 2020	********								
Une	Residential	2015		2016	2017 <sup>(N)</sup>		2018	2019		2020	Yotal
166	Residential Energy Assessments									161.966	\$ 161,966
167	My Home Energy Report									14.686.468	14,686,468
169	Energy Efficient Appliances and Devices									1,238,379	1,238,379
159	Residential Smart Saver Energy Efficiency Program									271,482	271,482
	Appliance Recycle Program										
171	Income Qualified Energy Efficiency and Weatherization Assistance									103,534	103,534
172	Multi-Family Energy Efficiency									496,663	496,663
173	Energy Efficiency Education									146,751	146,751
	Total Lost Revenues		-							17,105,243	17,105,243
175	Lost Revenue Decrement Pending Rate Case Implementation									2,428,384	2,428,384
	Found Residential Revenues *										
177	Net Lost Residential Revenues	\$	- \$		\$	•		\$	· \$	14,676,859	\$ 14,676,859
	Non-Residential	2015		2016	2017(4)		2018	2019		2020	Yotal
		2015		2016	2017(4)		2018	2019			
	Nonresidential Smart Saver Custom Energy Assessments	2015		2016	2017 <sup>(4)</sup>		2018	2019	5	136,414	\$ 136,414
179	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom	2015		2016	2017 <sup>(4)</sup>		2018	2019	5		
179 180	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services	2015		2016	2017 <sup>(4)</sup>		2018	2019	\$	136,414 1,201,984	\$ 136,414 1,201,984
179 180 181	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products	7015		2016	2017(4)		2018	2019	5	136,414 1,201,984 93,624	\$ 136,414 1,201,984 93,624
179 180 181 182	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient HVAC Products Non Residential Smart Saver Energy Efficient HVAC Products	7015		2016	2017 <sup>(4)</sup>	i	2018	2019	5	136,414 1,201,984 93,624 61,819	\$ 136,414 1,201,984 93,624 61,819
179 180 181 182 183	Nonresidential Smart Saver Custom Energy Assessments  Non Residential Smart Saver Custom  Energy Management Information Services  Non Residential Smart Saver Energy Efficient Food Service Products  Non Residential Smart Saver Energy Efficient HOVAC Products  Non Residential Smart Saver Energy Efficient HOVAC Products  Non Residential Smart Saver Energy Efficient HOVAC Products	2015		2016	2017 <sup>(4)</sup>		2018	2019	5	136,414 1,201,984 - 93,624 61,819 3,029,908	\$ 136,414 1,201,984 93,624 61,819 3,029,908
179 180 181 182 183 184	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Information Societies Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient Up/C Products	2015		2016	2017 <sup>(4)</sup>		2018	2019	\$	136,414 1,201,984 93,624 61,819 3,029,908 94,651	\$ 136,414 1,201,984 93,624 61,819 3,029,908 94,651
179 180 181 182 183 184 185	Non-esidential Smart Saver Custom Energy Assessments Non-Residential Smart Saver Custom Energy Management Indonesian Societies Room Residential Smart Saver Custom Energy Management Indonesian Societies Non-Residential Smart Saver Energy Efficient Food Sarvice Products Non-Residential Smart Saver Energy Efficient Upday & Products Non-Residential Smart Saver Energy Efficient Upday & Products Non-Residential Smart Saver Energy Efficient Purpus and Drives Products Non-Residential Smart Saver Energy Efficient Trenducts	2015		2016	2017 <sup>(4)</sup>		2018	2019	\$	136,414 1,201,984 - 93,624 61,819 3,029,908 94,651 6,639	\$ 136,414 1,201,984 93,624 61,819 3,029,908 94,651 6,639
179 180 181 182 183 184 135	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Indiamation Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient UpUs Products Non Residential Smart Saver Energy Efficient UpUs Products Non Residential Smart Saver Energy Efficient Upus pard Objects Products Non Residential Smart Saver Energy Efficient Upus pard Objects Products Non Residential Smart Saver Energy Efficient IT Products Non Residential Smart Saver Energy Efficient IT Products	2015		2016	2017 <sup>(4)</sup>		2018	2019	\$	136,414 1,201,924 93,624 61,819 3,029,908 94,651 6,639 12,061	\$ 136,414 1,701,984 93,624 61,819 3,029,908 94,651 6,639 12,061
179 180 181 182 183 184 135 186 187	Non-esidential Smart Saver Custom Energy Assessments Non-Residential Smart Saver Custom Energy Management Information Services Non-Residential Smart Saver Custom Energy Management Information Services Non-Residential Smart Saver Energy Efficient Food Service Products Non-Residential Smart Saver Energy Efficient VIACP Products Non-Residential Smart Saver Energy Efficient VIACP Products Non-Residential Smart Saver Energy Efficient Tendests Non-Residential Smart Saver Energy Efficient Tendests Non-Residential Smart Saver Energy Efficient Products Non-Residential Smart Saver Energy Efficient Products Non-Residential Smart Saver Energy Efficient Products	2015		2016	2017 <sup>(4)</sup>		2018	2019	Ś	136,414 1,201,984 - 93,624 61,819 3,029,908 94,651 6,639 12,061 402,902	\$ 136,414 1,701,984 93,624 61,819 3,029,906 94,651 6,639 12,061 402,900
179 180 181 182 183 184 135 186 187	Nonresidential Smart Saver Custom Energy Assessments Non Residential Smart Saver Custom Energy Management Indiamation Services Non Residential Smart Saver Energy Efficient Food Service Products Non Residential Smart Saver Energy Efficient Word Products Non Residential Smart Saver Energy Efficient Word Products Non Residential Smart Saver Energy Efficient Word Products Non Residential Smart Saver Energy Efficient Upput per Oducts Non Residential Smart Saver Energy Efficient Upput per Oducts Non Residential Smart Saver Energy Efficient Trockets Non Residential Smart Saver Energy Efficient Products	2015		2016	2017***		2018	2019	Ś	136,414 1,201,984 93,624 61,819 3,029,908 94,651 6,659 12,061 402,902 955,245	\$ 136,414 1,701,984 93,624 61,819 3,029,908 94,651 6,639 12,061
179 180 181 182 183 184 135 186 187 187	Non-exidential Smart Saver Custom Energy Assessments Non-Residential Smart Saver Custom Energy Management Information Services Non-Residential Smart Saver Custom Energy Management Information Services Non-Residential Smart Saver Energy Efficient Food Service Products Non-Residential Smart Saver Energy Efficient VipAC Products Non-Residential Smart Saver Energy Efficient VipAC Products Non-Residential Smart Saver Energy Efficient Pumps and Drives Products Non-Residential Smart Saver Energy Efficient Pumps and Drives Products Non-Residential Smart Saver Energy Efficient Process Equipment Products Non-Residential Smart Saver Per Germance Incentive Small Bullmart Saver Per Germance Incentive Small Bullmart Saver Per Germance Incentive	2015		2016	2017***		2018	2019	\$	136,414 1,201,984 - 93,624 61,819 3,029,908 94,651 6,639 12,061 402,902	\$ 136,414 1,701,984 93,624 61,819 3,029,906 94,651 6,639 12,061 402,900
179 180 181 182 183 184 135 186 187 187	Non-exidential Smart Saver Custom Energy Assessments  Non-Residential Smart Saver Custom  Energy Mora general Information Section  Energy Mora general Information Section Floridates  Non-Residential Smart Saver Energy Efficient HVAC Products  Non-Residential Smart Saver Energy Efficient Purpus and Drives Products  Non-Residential Smart Saver Energy Efficient Purpus and Drives Products  Non-Residential Smart Saver Energy Efficient Process Say/mers Products  Non-Residential Smart Saver Energy Efficient Process Say/mers Products  Non-Residential Smart Saver Energy Efficient Process Say/mers Products  Smart Energy in Office	2015		2016	2017 <sup>24</sup>		2018	2019	\$	136,414 1,201,984 93,624 61,819 3,019,908 94,651 6,639 12,061 402,902 955,245	\$ 136.414 1,701,984 93,624 61,819 3,029,908 94,651 6,639 12,061 407,902 955,245
179 180 181 182 183 184 135 186 187 187 188 189	Non-exidential Smart Saver Custom Energy Assessments Non-Residential Smart Saver Custom Energy Management Information Services Non-Residential Smart Saver Energy Efficient Food Sarvice Products Non-Residential Smart Saver Energy Efficient More Products Non-Residential Smart Saver Energy Efficient More Products Non-Residential Smart Saver Energy Efficient More Products Non-Residential Smart Saver Energy Efficient Lighting Froducts Non-Residential Smart Saver Energy Efficient Tymar and Driven Products Non-Residential Smart Saver Energy Efficient Tymar and Driven Products Non-Residential Smart Saver Energy Efficient Tymar and Driven Products Small Business Energy Saver Small Energy Colficies Business Energy Saver	7015			2017***		2018	2019		136,414 1,201,984 93,624 61,819 3,029,908 94,651 6,639 12,061 402,902 955,245	\$ 136,414 1,701,984 93,624 61,819 3,029,700 94,639 140,539 402,539 402,539 402,539 45,645 46,148 46,148
179 180 181 182 183 184 185 186 187 188 189 190 191	Non-exidential Smart Saver Custom Energy Assessments  Non-Residential Smart Saver Custom  Energy Mora general Information Section  Energy Mora general Information Section Floridates  Non-Residential Smart Saver Energy Efficient HVAC Products  Non-Residential Smart Saver Energy Efficient Purpus and Drives Products  Non-Residential Smart Saver Energy Efficient Purpus and Drives Products  Non-Residential Smart Saver Energy Efficient Process Say/mers Products  Non-Residential Smart Saver Energy Efficient Process Say/mers Products  Non-Residential Smart Saver Energy Efficient Process Say/mers Products  Smart Energy in Office	2015		2016	2017 <sup>24</sup>		2018	2019		136,414 1,201,984 93,624 61,819 3,019,908 94,651 6,639 12,061 402,902 955,245	\$ 136.414 1,701,984 93,624 61,819 3,029,908 94,651 6,639 12,061 407,902 955,245

<sup>(</sup>a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Jul 10 201

NC Public Staff
Docket No. E-7, Sub 1032
Docket No. E-2, Sub 931
Data Request No. 2
Item No. 2-8
Page 1 of 1

#### **DUKE ENERGY CAROLINAS, LLC and DUKE ENERGY PROGRESS, LLC**

#### Request:

Given that both DEC and DEP are considered to be winter planning utilities, please explain the justification for applying the same avoided per KW capacity costs throughout the year; as opposed to employing a weighted avoided capacity cost that incorporates the same seasonal allocations of avoided capacity costs used in the recent avoided cost proceeding.

#### Response:

Consistent with the Commission's discussion and conclusions in its September 11, 2018 *Order Approving DSM/EE Rider and Requiring Customer Notice*, in Docket No. E-7, Sub 1164, the Companies recognize that evaluating the contributions that DSM/EE measures make to a utility avoiding future capacity needs differs from the evaluation undertaken to determine the capacity costs avoided through the purchase of electric output from the QF. Mindful of this distinction, the value of avoided capacity for EE and DR measures is derived from the cost of a peaker, independent of whether the peaker is used in the winter or the summer. Therefore, employing the same avoided per KW capacity cost throughout the year is the appropriate way to assign value to Avoided Capacity for EE and DR measures. The Companies do not currently, nor do they intend to attempt to claim Avoided Capacity savings that are the sum of both the Winter and the Summer Peak KW savings.