

August 9, 2022

VIA Electronic Filing

Ms. A. Shonta Dunston, Chief Clerk
North Carolina Utilities Commission
Dobbs Building
430 North Salisbury Street
Raleigh, North Carolina 27603

*Re: Application for Approval of Demand-Side Management and Energy
Efficiency Cost Recovery Rider Programs
Docket No. E-22, Sub 645*

Dear Ms. Dunston:

Pursuant to North Carolina General Statutes (“N.C.G.S.”) § 62-133.9 and Rule R8-69 of the Rules and Regulations of the North Carolina Utilities Commission (“Commission”), Virginia Electric and Power Company, d/b/a Dominion Energy North Carolina (the “Company”), hereby files its Application for approval of cost recovery for the Company’s approved and proposed demand-side management and energy efficiency measures (“Application”).

Portions of the Application contain confidential information related to program or vendor costs, including Company Exhibit EJH-1, Schedule 5; Company Exhibit JEB-1, Schedules 1, 2, 3, 4, 5, 6, and 7; Company Exhibit JAW-1, Schedules 1 and 2; and Company Exhibit CCH-1, Schedules 1 and 3. Information designated by the Company as confidential qualifies as “trade secrets” under N.C.G.S. § 66-152(3). Public disclosure of this information would allow access by external vendors to the projected or actual costs for services that will be or have been competitively bid, which may provide commercial value to such external vendors and may ultimately result in harm to ratepayers. Pursuant to N.C.G.S. § 132-1.2, the Company has redacted this confidential information from this public version of the Company’s Application and is contemporaneously filing these confidential pages under seal. The Company will make this information available to other interested parties pursuant to an appropriate nondisclosure agreement.

Ms. A. Shonta Dunson, Chief Clerk
August 9, 2022
Page 2

Please do not hesitate to contact me if you have any questions. Thank you for your assistance in this matter.

Very truly yours,

/s/Andrea R. Kells

Enclosures

cc: Nadia Luhr, Public Staff – NC Utilities Commission
Anne Keyworth, Public Staff – NC Utilities Commission
Lucy Edmondson, Public Staff – NC Utilities Commission



**Dominion
Energy®**

**Application of Virginia
Electric and Power
Company, d/b/a Dominion
Energy North Carolina,
Direct Testimony and
Exhibits**

**Before the North Carolina
Utilities Commission**

**In the Matter of
Application of Virginia Electric
and Power Company, d/b/a
Dominion Energy North Carolina,
for Authority to Adjust its Electric
Rates and Charges Pursuant to
N.C.G.S. § 62-133.9 and NCUC
Rule R8-69**

Docket No. E-22, Sub 645

Filed: August 9, 2022

PUBLIC VERSION

**Dominion Energy North Carolina
Application for Approval of Cost Recovery for Demand-Side
Management and Energy Efficiency Measures**

DOCKET NO. E-22, SUB 645

TABLE OF CONTENTS

Application

Verification

Direct Testimony of Michael T. Hubbard

Direct Testimony of Edmund J. Hall

Company Exhibit EJH-1, Schedule 1 – Rule R8-69(f)(1)(ii)(a), (b), (d) & (e) Filing Requirements (Revenue Requirement per Appropriate Unit; Avoided Costs per Appropriate Unit; 2022 Summer/Winter Peak & Energy Savings)

Company Exhibit EJH-1, Schedule 2 – Utility Cost Test Calculations for Program Performance Incentive for Going-Forward System Programs

Company Exhibit EJH-1, Schedule 3 – Rule R8-69(f)(1)(iii)(h) Filing Requirement (Comparison of Phase I Air Conditioner Cycling Program, Phase IV, Phase V, Phase VI, and Phase VII Programs forecasted in the Company's 2019 Plan and 2020 Plan)

Company Exhibit EJH-1, Schedule 4 – Going Forward Cost Effectiveness Evaluations per Paragraph 41 of Mechanism

Company Exhibit EJH-1, Schedule 5 – EM&V Costs during Test Period and Rate Period (confidential information redacted)

Company Exhibit EJH-1, Schedule 6 – Rule R8-69(f)(1)(iv) Filing Requirements (Estimated Energy Savings to Support True Up of Lost Revenues During Test Period)

Company Exhibit EJH-1, Schedule 7 – Rule R8-69(f)(1)(iii)(h) Filing Requirements (Evaluation of Event Based Program (Air Conditioner Cycling) During Test Period)

Direct Testimony of Jarvis E. Bates

Company Exhibit JEB-1, Schedule 1 – Projected System Costs (Program and Common Costs) for the Rate Period February 1, 2022 – January 31, 2023 (confidential information redacted)

Company Exhibit JEB-1, Schedule 2 – Projected System Costs (Program Cost Details – Phase I (Air Conditioning Recycling), Phase IV, Phase V, Phase VI, and Phase VII for the Rate Period February 1, 2022 – January 31, 2023 (confidential information redacted)

Company Exhibit JEB-1, Schedule 3 – Projected System Costs (Common Costs) for the Rate Period February 1, 2022 - January 31, 2023 (confidential information redacted)

Company Exhibit JEB-1, Schedule 4 – Program Cost Details (Non NC DSM Programs) for the Rate Period February 1, 2022 - January 31, 2023 (confidential information redacted)

Company Exhibit JEB-1, Schedule 5 – NC Program Performance Incentive (PPI) Summary Sheet for the Rate Period February 1, 2022 - January 31, 2023 (confidential information redacted)

Company Exhibit JEB-1, Schedule 6 – Program Performance Incentive (PPI) True-up for Year 2020 (confidential information redacted)

Company Exhibit JEB-1, Schedule 7 – System DSM Program & Common Cost O&M Expense Actuals for Test Period January 1, 2020 - December 31, 2020 (confidential information redacted)

Direct Testimony of Justin A. Wooldridge

Company Exhibit JAW-1, Schedule 1 – Projected Rate Period Revenue Requirement for DSM/EE (Rider C) for the Rate Period February 1, 2022 – January 31, 2023 (confidential information redacted)

Company Exhibit JAW-1, Schedule 2 – DSM/EE Experience Modification Factor (Rider CE) for the Test Period January 1, 2020 through December 31, 2020 (confidential information redacted)

Company Exhibit JAW-1, Schedule 3 – Rule R8-69(f)(1)(viii) Supporting Work Papers

Direct Testimony of Christopher C. Hewett

Company Exhibit CCH-1, Schedule 1 – Assignment and Allocation of Common Costs to the North Carolina Jurisdiction (confidential information redacted)

Company Exhibit CCH-1, Schedule 2 – Allocation Factors for the Costs of the DSM Programs to the Customer Classes (confidential information redacted)

Company Exhibit CCH-1, Schedule 3 – DSM/EE EMF (Rider CE) Allocation and Assignment for Test Period and Rate Period to the Customer Classes (confidential information redacted)

Company Exhibit CCH-1, Schedule 4 – Rule R8-69(f)(1)(ii)(b) and R8-69(f)(1)(viii) Filing Requirements

Direct Testimony of Casey R. Lawson

Company Exhibit CRL-1, Schedule 1 – Forecast kWh Sales and Customers by Revenue Class 12 Months Ended January 31, 2023

Company Exhibit CRL-1, Schedule 2 – Rule R8-69(f)(1)(vii) Filing Requirements (Opt-Out Non-Residential Customer Usage)

Company Exhibit CRL-1, Schedule 3 – Rule R8-69(f)(1)(vi) Filing Requirements (Rider C)

Company Exhibit CRL-1, Schedule 4 – Allocation of Rider CE Rates to Customer Class

Company Exhibit CRL-1, Schedule 5 – Rule R8-69(f)(1)(vi) Filing Requirements (Rider CE)

Company Exhibit CRL-1, Schedule 6 – Monthly Residential Non-Fuel Average Base Rate Calculations for the Test Period (Residential Income & Age Qualifying Home Improvement Program)

Company Exhibit CRL-1, Schedule 7 – Monthly Residential Non-Fuel Average Base Rate Calculations for the Test Period (Residential Efficient Products Marketplace Program)

Company Exhibit CRL-1, Schedule 8 – Monthly Residential Non-Fuel Average Base Rate Calculations for the Test Period (Residential Home Energy Assessment Program)

Company Exhibit CRL-1, Schedule 9 – Monthly Non-Residential Non-Fuel Average Base Rate Calculations for the Test Period (Residential Energy Efficiency Kits Program)

Company Exhibit CRL-1, Schedule 10 – Monthly Non-Residential Non-Fuel Average Base Rate Calculations for the Test Period (Residential Smart Thermostat Program (EE))

Company Exhibit CRL-1, Schedule 11 – Monthly Residential Non-Fuel Average Base Rate Calculations for the Test Period (Non-residential Heating & Cooling Efficiency Program)

Company Exhibit CRL-1, Schedule 12 – Monthly Non-Residential Non-Fuel Average Base Rate Calculations for the Test Period (Non-residential Lighting Systems & Controls Program)

Company Exhibit CRL-1, Schedule 13 – Monthly Non-Residential Non-Fuel Average Base Rate Calculations for the Test Period (Non-residential Small Business Improvement Program)

Company Exhibit CRL-1, Schedule 14 – Monthly Non-Residential Non-Fuel Average Base Rate Calculations for the Test Period (Non-residential Window Film Program)

Company Exhibit CRL-1, Schedule 15 – Monthly Non-Residential Non-Fuel Average Base Rate Calculations for the Test Period (Non-residential Prescriptive Program)

Company Exhibit CRL-1, Schedule 16 – Monthly Non-Residential Non-Fuel Average Base Rate Calculations for the Test Period (Non-residential Office Program)

Company Exhibit CRL-1, Schedule 17 – Monthly Non-Residential Non-Fuel Average Base Rate Calculations for the Test Period (Non-residential Small Business Improvement Enhanced Program)

Rule R8-69(f)(1)(i) – Projected NC retail sales for the rate period

Rule R8-69(f)(1)(vi) – Proposed DSM/EE and DSM/EE EMF riders

Rule R8-69(f)(1)(vii) – Projected NC retail sales for customers opting out of measures

Rule R8-69(f)(1)(viii) – Supporting Workpapers

Appendix A – Non-Participating Customers

**STATE OF NORTH CAROLINA
UTILITIES COMMISSION
RALEIGH**

DOCKET NO. E-22, SUB 645

BEFORE THE NORTH CAROLINA UTILITIES COMMISSION

In the Matter of
Application of Virginia Electric and Power Company, d/b/a Dominion Energy North Carolina, for Authority to Adjust its Electric Rates and Charges Pursuant to N.C.G.S. § 62-133.9 and Commission Rule R8-69) APPLICATION FOR APPROVAL OF DEMAND-SIDE MANAGEMENT AND ENERGY EFFICIENCY COST RECOVERY RIDER)

Pursuant to North Carolina General Statutes (“N.C.G.S.”) § 62-133.9 and Rule R8-69 of the Rules and Regulations of the North Carolina Utilities Commission (“NCUC” or the “Commission”), Virginia Electric and Power Company, d/b/a Dominion Energy North Carolina (“Dominion Energy North Carolina” or the “Company”), by counsel, hereby applies to the Commission to establish an updated rider to allow the Company to recover its reasonable and prudent demand-side management (“DSM”) and energy efficiency (“EE”) costs, net lost revenues, and Portfolio Performance Incentive (“PPI”) (the “Application”). In support thereof, the Company respectfully asserts as follows:

1. The Company is a public utility operating in the State of North Carolina as Dominion Energy North Carolina and is engaged in the business of generating, transmitting, distributing, and selling electric power and energy to the public for compensation. As such, the Company’s operations in the State are subject to the jurisdiction of the Commission. The Company is also a public utility under the Federal Power Act, and certain of its operations are subject to the jurisdiction of the Federal Energy Regulatory Commission (“FERC”). The Company is an operating subsidiary of

Dominion Energy, Inc. Dominion Energy North Carolina serves approximately 120,000 customers in North Carolina, with a service territory of about 2,600 square miles in northeastern North Carolina, including Roanoke Rapids, Albemarle, Ahoskie, Elizabeth City, and the Outer Banks. Dominion Energy North Carolina serves major industrial facilities, as well as commercial, governmental, and residential customers. The post office address of Dominion Energy North Carolina is P.O. Box 26666, Richmond, Virginia 23261.

2. The attorneys for the Company are:

Paul E. Pfeffer
Lauren Wood Biskie
Dominion Energy Services, Inc.
Legal Department
120 Tredegar Street, RS-2
Richmond, Virginia 23219
(804) 787-5607 (PEP phone)
(804) 819-2396 (LWB phone)
paul.e.pfeffer@dominionenergy.com
lauren.w.biskie@dominionenergy.com

Andrea R. Kells
Nick A. Dantonio
McGuireWoods LLP
501 Fayetteville Street, Suite 500
Raleigh, North Carolina 27601
(919) 755-6614 (ARK Phone)
(919) 755-6605 (NAD Phone)
akells@mcguirewoods.com
ndantonio@mcguirewoods.com

Copies of all pleadings, testimony, orders, and correspondence in this proceeding should be served upon the attorneys listed above.

3. N.C.G.S. § 62-133.9(d) authorizes the Commission to approve an annual rider to the rates of electric public utilities to recover all reasonable and prudent costs incurred for the adoption and implementation of new demand-side management and

energy efficiency (collectively “DSM/EE”) measures (“DSM/EE Programs”), including, but not limited to, all capital costs, administrative costs, implementation costs, incentive payments to program participants, and operating costs. The annual rider shall recover the utility’s forecasted costs during the February 1, 2023 through January 31, 2024 rate period (“Rate Period”), and an experience modification factor (“EMF”) rider shall recover the difference between the utility’s actual reasonable and prudent costs incurred and actual revenues realized during the January 1, 2021 through December 31, 2021 test period (“Test Period”). The Commission is also authorized, pursuant to N.C.G.S. § 62.133.9(d)(2), to approve incentives to utilities for the adoption and implementation of new DSM/EE Programs.

4. Commission Rule R8-69(b) provides that the Commission will annually conduct a proceeding for each electric public utility to establish a DSM/EE rider to recover DSM/EE related costs. On October 14, 2011, the Commission issued an Order approving the Company’s proposed DSM/EE cost recovery rider, Rider C (“2010 Cost Recovery Order”).¹ The 2010 Cost Recovery Order also approved the Agreement and Stipulation of Settlement (“Stipulation”) agreed to between the Public Staff and the Company, as well as a cost recovery and incentive mechanism attached as Stipulation Exhibit 1 to the Stipulation. The Commission issued an Order on December 13, 2011, in the Company’s 2011 cost recovery proceeding approving an updated Rider C as well as an Addendum to the Stipulation, establishing a jurisdictional allocation methodology for

¹ *Order Approving Agreement and Stipulation of Settlement, Approving DSM/EE Rider, and Requiring Compliance Filing*, Docket No. E-22, Sub 464 (Oct. 14, 2011).

the allocation of DSM/EE Program costs between the Company's North Carolina and Virginia jurisdictions.²

5. On December 14, 2012, in the Company's 2012 cost recovery proceeding, the Commission again approved an updated Rider C along with the Company's initial EMF, Rider CE.³ On December 18, 2013, the Commission approved updated Riders C and CE, as well as a second Addendum to the Stipulation addressing assignment of costs for the Company's North Carolina-only Programs.⁴ On December 19, 2014, the Commission approved the Company's 2014 Rider C and Rider CE cost recovery requests, which were filed consistent with the initial Stipulation and Mechanism.⁵

6. On May 7, 2015, the Commission approved limited changes to the cost recovery and incentive mechanism supported by the Company and the Public Staff, including utilization of a lagging calendar year test period.⁶ The Company subsequently filed its 2015⁷ and 2016⁸ Rider C and Rider CE cost recovery requests in accordance with the revised cost recovery and incentive mechanism, which were approved by the Commission.

7. On May 22, 2017, the Commission approved a revised cost recovery and incentive mechanism ("Mechanism"), addressing the manner in which the Company

² *Order Approving DSM/EE Rider and Requiring Customer Notice*, Docket No. E-22, Sub 473 (Dec. 13, 2011).

³ *Order Approving DSM/EE Rider and DSM/EE EMF Riders and Requiring Customer Notice*, Docket No. E-22, Sub 486 (Dec. 14, 2012).

⁴ *Order Approving DSM/EE and DSM/EE EMF Riders and Requiring Customer Notice*, Docket No. E-22, Sub 494 (Dec. 18, 2013).

⁵ *Order Approving DSM/EE and DSM/EE EMF Riders and Requiring Filing of Proposed Customer Notice*, Docket No. E-22, Sub 513 (Dec. 19, 2014).

⁶ *Order Approving Revised Cost Recovery and Incentive Mechanism and Granting Waiver*, Docket No. E-22, Sub 464 (May 7, 2015).

⁷ *Order Approving DSM/EE and DSM/EE EMF Riders and Requiring Filing of Proposed Customer Notice*, Docket No. E-22, Sub 524 (Dec. 14, 2015).

⁸ *Order Approving DSM/EE Rider and Requiring Filing of Proposed Customer Notice*, Docket No. E-22, Sub 536 (Dec. 19, 2016).

would develop its future Rule R8-69 applications for DSM/EE cost recovery.⁹ The Company developed its 2018,¹⁰ 2019,¹¹ 2020,¹² and 2021 Rider C and Rider CE cost recovery applications in accordance with the revised Mechanism, which were approved by the Commission. On March 22, 2022, the Commission approved a newly revised Mechanism.¹³ The Company has developed this Application in accordance with the provisions of the current Mechanism.

8. Pursuant to the provisions of N.C.G.S. § 62-133.9 and Commission Rule R8-69, the Company requests approval of an updated Rider C to recover its reasonable and prudent costs projected to be incurred for adoption and implementation of the Company's portfolio of DSM/EE Programs, including certain "Common Costs," which are projected costs for items such as program marketing and internal labor that are shared across the Company's DSM/EE Programs. The Company's portfolio of DSM/EE Programs for which Rate Period cost recovery is sought in this proceeding includes: (a) the previously approved Phase I DSM/EE Program: Residential Air Conditioner Cycling Program;¹⁴ (b) the previously approved Phase III DSM/EE Programs: Non-Residential Lighting Systems and Controls, Non-residential Heating and Cooling Efficiency, and Non-residential Window Film;¹⁵ (c) the previously approved Phase IV Income and Age

⁹ *Order Approving Revised Cost Recovery and Incentive Mechanism*, Docket No. E-22, Sub 464 (May 22, 2017).

¹⁰ *Order Approving DSM/EE Rider and Requiring Filing of Customer Notice*, Docket No. E-22, Sub 556 (Jan. 10, 2019).

¹¹ *Order Approving DSM/EE Rider and Requiring Filing of Proposed Customer Notice*, Docket No. E-22, Sub 577 (Jan. 17, 2020).

¹² *Order Approving DSM/EE Rider and Requiring Filing of Proposed Customer Notice*, Docket No. E-22, Sub 589 (Jan. 29, 2021).

¹³ *Order Approving Revised Cost Recovery and Incentive Mechanism*, Docket No. E-22, Sub 464 (Mar. 22, 2022).

¹⁴ Docket No. E-22, Sub 465. All other Phase I programs except the Residential Air Conditioner Cycling Program have previously been concluded.

¹⁵ Docket No. E-22, Subs 507, 508, and 509. On August 16, 2018, the Company filed a motion in Docket No. E-22, Sub 509 to close the Non-residential Window Film Program, and filed applications in Docket

Qualifying Home Improvement Program;¹⁶ (d) the previously approved Phase V Non-Residential Small Business Improvement Program;¹⁷ (e) the previously approved NC-only Residential Retail LED Lighting Program;¹⁸ (f) the previously approved Phase VI Non-residential Prescriptive Program;¹⁹ (g) the previously approved Phase VII Programs: Non-residential Heating and Cooling Efficiency, Non-residential Lighting Systems & Controls, Non-residential Window Film, Non-residential Office, Non-residential Small Manufacturing, Residential Appliance Recycling, Residential Home Energy Assessment, and Residential Efficient Products Marketplace;²⁰ (h) the previously approved Phase VIII Programs: Residential Smart Thermostat (EE), Residential Smart Thermostat (DR), Residential Energy Efficiency Kits, Residential Home Retrofit, Small Business Enhanced, and Non-residential New Construction;²¹ and (i) the previously approved Phase IX Programs: Residential Income Age Qualifying, Residential Smart Home, Residential Virtual Audit, Residential Water Savings (EE), Residential Water Savings

Nos. E-22, Sub 507 and E-22, Sub 508 for Commission approval to transition the Non-residential Heating and Cooling Efficiency Program and the Non-residential Lighting Systems and Controls Program to be offered on a North Carolina-only basis. On October 16, 2018, the Commission granted the Company's request to close the Non-residential Window Film Program in Docket No. E-22, Sub 509, as well as the Company's request to offer the Non-residential Heating and Cooling Efficiency and Non-residential Lighting Systems and Controls Programs on a North Carolina-only basis in Docket No. E-22, Sub 507 and E-22, Sub 508, respectively. On November 13, 2019, the Commission authorized DENC to close the North Carolina-only Non-Residential Lighting Systems and Controls Program and the Non-Residential Heating and Cooling Efficiency Programs, as they were being replaced with system-wide programs providing similar measures. *See Order Approving Demand-Side Management and Energy Efficiency Programs*, Docket No. E-22, Subs 567 *et seq.* (Nov. 13, 2019).

¹⁶ Docket No. E-22, Sub 523.

¹⁷ Docket No. E-22, Sub 538.

¹⁸ Docket No. E-22, Sub 539. On August 16, 2018, the Company filed a motion in Docket No. E-22, Sub 539 to close the Residential Retail LED Lighting Program, which the Commission granted by order dated October 16, 2018.

¹⁹ Docket No. E-22, Sub 543.

²⁰ Docket No. E-22, Subs 567, 568, 569, 570, 571, 572, 573, and 574.

²¹ Docket No. E-22, Subs 595, 594, 592, 593, 596, and 591.

(DR), Non-Residential Building Automation, Non-Residential Building Optimization, Non-Residential Engagement, and Non-Residential Enhanced Prescriptive.²²

9. Pursuant to N.C.G.S. § 62-133.9(d)(2) and Commission Rule R8-69(c), the Company also requests recovery of net lost revenues and a PPI for the adoption and implementation of the DSM/EE Programs. However, consistent with the Company's annual DSM/EE cost recovery applications, the Company has not projected net lost revenues for the Rate Period; instead, the Company intends to true up net lost revenues through its annual EMF in future proceedings. The Company is also requesting to true up its Test Period recovery of PPI and net lost revenues in accordance with the Mechanism.

10. Consistent with Paragraph 40 of the Mechanism, the Company has developed its revenue requirement using the capital structure and cost of capital as specified by the Company's Treasury Department for use in the Company's NCUC ES-1 Report for the period ending June 30, 2021, incorporating a cost of common equity of 9.75%, as approved in the Company's most recent general rate case on February 24, 2020, in Docket No. E-22, Sub 562.²³

11. The Company's Application and pre-filed direct testimony are consistent with the terms and conditions of the Mechanism, as approved by the Commission. Updated Rider C and the EMF rider, Rider CE, are intended to allow the Company to recover \$4,967,222 of DSM/EE expenses and incentives during the Rate Period. This amount includes an under-collection of \$982,099 during the Test Period and \$3,985,123 for expenses and incentives projected to be incurred during the Rate Period.

²² Docket No. E-22, Subs 608, 614, 615, 616, 617, 618, 619, 620, and 621.

²³ See *Order Accepting Public Staff Stipulation in Part, Accepting CIGFUR Stipulation, Deciding Contested Issues, and Granting Partial Rate Increase*, Docket No. E-22, Sub 562 (Feb. 24, 2020).

12. Pursuant to N.C.G.S. § 62-133.9, the Company requests Commission approval of annual Rider C and CE billing adjustments as follows (all shown on a cents per kWh basis):

<u>Customer Class</u>	<u>Rider C</u> DSM/EE Customer Class Rate (¢/kWh)	<u>Rider CE</u> DSM/EE EMF Customer Class Rate (¢/kWh)	<u>Total Riders C & CE</u> Customer Class Rate (¢/kWh)
Residential	0.1613 ¢/kWh	0.0350 ¢/kWh	0.1963 ¢/kWh
Small General Service & Public Authority	0.1309 ¢/kWh	0.0395 ¢/kWh	0.1704 ¢/kWh
Large General Service	0.1133 ¢/kWh	0.0342 ¢/kWh	0.1475 ¢/kWh
6VP	0.0000 ¢/kWh	0.0000 ¢/kWh	0.0000 ¢/kWh
NS	0.0000 ¢/kWh	0.0000 ¢/kWh	0.0000 ¢/kWh
Outdoor Lighting	0.0000 ¢/kWh	0.0000 ¢/kWh	0.0000 ¢/kWh
Traffic Lighting	0.0000 ¢/kWh	0.0000 ¢/kWh	0.0000 ¢/kWh

13. Consistent with the Company’s 2021 DSM/EE cost recovery application, updated Rider C and Rider CE will be in effect for the 12-month period from February 1, 2023, through January 31, 2024, the proposed Rate Period.

14. Pursuant to Commission Rules R8-69(b) and R8-27, the Company requests approval to defer prudently incurred costs to FERC Account 182.3, “Other Regulatory Assets,” until recovered. Pursuant to Commission Rule R8-69(b)(6), the Company requests approval to defer the difference between actual reasonable and prudently incurred incremental costs and the related revenues realized under rates in effect. The Company also requests approval as required under Commission Rule R8-69(b)(6) to defer any Common Costs, including any administrative, general, or other

costs not directly related to new DSM/EE Programs. Finally, the Company requests approval to defer costs that the Company incurs in adopting and implementing new DSM/EE measures up to six months prior to the Company filing for Commission approval of such measures in accordance with Commission Rule R8-68.

15. In support of the requested change in rates, the Company has attached hereto, as required by Commission Rule R8-69, the pre-filed direct testimony and exhibits of Michael T. Hubbard, Edmund J. Hall, Jarvis E. Bates, Justin A. Wooldridge, Christopher C. Hewett, and Casey R. Lawson.

WHEREFORE, Dominion Energy North Carolina respectfully requests that the Commission approve the changes to its rates as set forth in Paragraph twelve (12) above, finding them just and reasonable.

Respectfully submitted, this the 9th day of August, 2022.

DOMINION ENERGY NORTH CAROLINA

By: /s/Andrea R. Kells
Counsel for Virginia Electric and Power Company,
d/b/a Dominion Energy North Carolina

Paul E. Pfeffer
Lauren Wood Biskie
Dominion Energy Services, Inc.
Legal Department
120 Tredegar Street, RS-2
Richmond, Virginia 23219
(804) 787-5607 (PEP phone)
(804) 819-2396 (LWB phone)
paul.e.pfeffer@dominionenergy.com
lauren.w.biskie@dominionenergy.com

Andrea R. Kells
Nick A. Dantonio
McGuireWoods LLP
501 Fayetteville Street, Suite 500
Raleigh, North Carolina 27601

(919) 755-6614 (ARK Phone)
(919) 755-6605 (NAD Phone)
akells@mcguirewoods.com
ndantonio@mcguirewoods.com

**DIRECT TESTIMONY
OF
MICHAEL T. HUBBARD
ON BEHALF OF
DOMINION ENERGY NORTH CAROLINA
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-22, SUB 645**

1 **Q. Please state your name, business address, and position with Virginia**
2 **Electric and Power Company (“Dominion Energy North Carolina” or the**
3 **“Company”).**

4 A. My name is Michael T. Hubbard, and I am Manager-Energy Conservation for
5 the Company. My business address is 600 East Canal Street, Richmond,
6 Virginia 23219. A statement of my background and qualifications is attached
7 as Appendix A.

8 **Q. Please describe your area of responsibility with the Company.**

9 A. I am responsible for overseeing the Company’s Energy Conservation (“EC”)
10 department, which manages the Company’s demand-side management
11 (“DSM”) and energy efficiency (“EE”) programs (“DSM/EE Programs” or
12 “Programs”).

13 **Q. What is the purpose of your testimony in this proceeding?**

14 A. My testimony supports the Company’s request to recover all reasonable and
15 prudent costs incurred in adopting and implementing its authorized Phase I –
16 IX Programs, and North Carolina-only Residential Retail LED Lighting
17 Program, as well as utility incentives, through updated Rider C and the test
18 period experience modification factor (“EMF”) rider, Rider CE

1 (“Application”). The purpose of my testimony is to: (1) provide an update on
2 the status of the Company’s current DSM/EE Programs in North Carolina, as
3 well as the Company’s intent to bring a new Phase X portfolio of system-wide
4 Programs to North Carolina; and (2) present the Company’s cost recovery
5 request in this proceeding to the North Carolina Utilities Commission
6 (“Commission” or “NCUC”).

7 **I. UPDATE ON DSM/EE PROGRAMS**

8 **Q. Please provide a brief overview of the Company’s approved DSM/EE**
9 **Program Deployment in North Carolina.**

10 A. In February 2011, the Commission approved five DSM/EE Programs, which
11 the Company began offering to customers in the spring of 2011.¹ These
12 “Phase I” DSM/EE Programs included the Company’s:

- 13 • Residential Low Income Program;
- 14 • Residential Air Conditioner Cycling Program;
- 15 • Residential Lighting Program;
- 16 • Commercial HVAC Upgrade Program; and
- 17 • Commercial Lighting Program.

18 On December 31, 2011, the Company concluded the implementation phase of
19 its Residential Lighting Program. Further, the Company concluded its North

¹ Orders approving these Programs were issued on February 22, 2011, in Docket Nos. E-22, Sub 463 (Low Income Program), Sub 465 (Air Conditioner Cycling Program), Sub 467 (Commercial HVAC Upgrade Program), Sub 468 (Residential Lighting Program), and Sub 469 (Commercial Lighting Program).

1 Carolina-only Commercial Lighting Program and Commercial HVAC
2 Upgrade Program on December 31, 2014.²

3 In August 2013, the Company requested Commission approval to implement
4 the following “Phase II” DSM/EE Programs:

- 5 • Non-Residential Energy Audit Program;
- 6 • Non-Residential Duct Testing and Sealing Program;
- 7 • Residential Home Energy Check-Up Program;
- 8 • Residential Duct Sealing Program;
- 9 • Residential Heat Pump Tune-Up Program; and
- 10 • Residential Heat Pump Upgrade Program.

11 The Commission approved the six Phase II Programs in December 2013, and
12 the Company began accepting new customers in these Programs beginning on
13 January 1, 2014.³ On August 16, 2016, as amended on October 19, 2016, the
14 Company filed a Motion for Commission approval to close the Phase II
15 programs to new applications as of February 7, 2017, contemporaneous with
16 their closure to new participants in Virginia, with the exception of the
17 Residential Heat Pump Upgrade Program, which the Company asked to
18 suspend as of February 7, 2017. The Commission granted those requests by

² On December 16, 2013, the Commission also approved the Company’s request to transition the Phase I Commercial HVAC Upgrade Program (Docket No. E-22, Sub 467) and the Commercial Lighting Program (Docket No. E-22, Sub 469) from system-wide Programs to North Carolina-only Programs. By Order issued August 8, 2014, the Commission subsequently approved the Company’s request to close these North Carolina-only Programs as of December 31, 2014.

³ Orders approving these Programs were issued on December 16, 2013, in Docket No. E-22, Sub 495 (Non-Residential Energy Audit Program), Sub 496 (Non-Residential Duct Testing and Sealing Program), Sub 497 (Residential Duct Testing and Sealing Program), Sub 498 (Residential Home Energy Check Up Program), Sub 499 (Residential Heat Pump Tune Up Program), and Sub 500 (Residential Heat Pump Upgrade Program).

1 order issued on November 29, 2016.⁴ On July 28, 2017, the Company filed a
2 Motion to close the Residential Heat Pump Upgrade program, which the
3 Commission approved by order issued on September 5, 2017.⁵

4 In June 2014, the Company requested Commission approval to implement the
5 following “Phase III” DSM/EE Programs:

- 6 • Non-Residential Heating and Cooling Efficiency Program;
- 7 • Non-Residential Lighting Systems and Controls Program; and
- 8 • Non-Residential Window Film Program.

9 The Commission approved the three Phase III Programs in October 2014, and
10 the Company began accepting new customers in these Programs beginning on
11 January 1, 2015.⁶ On August 16, 2018, the Company filed a Motion to close
12 the Phase III Non-Residential Window Film Program to new participants as of
13 December 31, 2018,⁷ which the Commission granted by order dated October
14 16, 2018.⁸ On August 16, 2018, the Company requested Commission
15 approval to transition the Phase III Non-Residential Heating and Cooling
16 Efficiency Program and the Non-Residential Lighting Systems and Controls

⁴ *Order on Motion to Close or Suspend Programs*, Docket No. E-22, Sub 495, Sub 496, Sub 497, Sub 498, Sub 499, and Sub 500 (Nov. 29, 2016).

⁵ *Order Cancelling Program*, Docket No. E-22, Sub 500 (Sept. 5, 2017).

⁶ Orders approving these Programs were issued on October 27, 2014, in Docket No. E-22, Sub 507 (Non-Residential Heating and Cooling Efficiency Program), Sub 508 (Non-Residential Lighting Systems and Controls Program), and Sub 509 (Non-Residential Window Film Program).

⁷ Motion to Close Non-Residential Window Film Program and North Carolina-Only Residential Retail LED Lighting Program, Docket No. E-22, Sub 509, Sub 539 (filed Aug. 16, 2018) (“Motion to Close Phase III Programs”).

⁸ *Order Canceling Program*, Docket No. E-22, Sub 509 (Oct. 16, 2018).

1 Program to be offered on a North Carolina-only basis.⁹ The Commission
2 subsequently granted the Company's request on October 16, 2018.¹⁰

3 In July 2015, the Company requested Commission approval to implement the
4 "Phase IV" Residential Income and Age Qualifying Home Improvement
5 ("RIAQHI") Program. After Commission approval in October 2015, this new
6 Program opened to North Carolina customers on January 1, 2016.¹¹ The
7 "Phase IV" RIAQHI Program replaced the Phase I North Carolina-only Low
8 Income Program, which concluded on December 31, 2015.¹² On November 6,
9 2017, the Commission approved the Company's request to suspend the
10 RIAQHI Program since the Program was set to expire in Virginia in early
11 2018.¹³ The Company stated that if the Virginia State Corporation
12 Commission ("VSCC") granted an extension, it would file a request seeking
13 to reopen the RIAQHI Program in North Carolina in accordance with the
14 Program's system-wide design. On May 31, 2018, the Company filed a
15 motion with the Commission to reopen the RIAQHI Program to customer
16 participation beginning July 1, 2018.¹⁴ On June 26, 2018, the Commission

⁹ Application of Dominion Energy North Carolina for Approval of North Carolina-Only Non-Residential Heating and Cooling Efficiency Program, Docket No. E-22, Sub 507 (filed Aug. 16, 2018); Application of Dominion Energy North Carolina for Approval of North Carolina-Only Non-Residential Lighting Systems and Controls Program, Docket No. E-22, Sub 508 (filed Aug. 16, 2018).

¹⁰ *Order Approving Program*, Docket No. E-22, Sub 507 (Oct. 16, 2018); *Order Approving Program*, Docket No. E-22, Sub 508 (Oct. 16, 2018).

¹¹ *Order Approving Program*, Docket No. E-22, Sub 523 (Oct. 6, 2015).

¹² *Order Granting Motion to Offer North Carolina-Only Low Income Program*, Docket No. E-22, Sub 463 (Sept. 9, 2014).

¹³ *Order Suspending Program*, Docket No. E-22, Sub 523 (Nov. 6, 2017).

¹⁴ *In the Matter of Application of Virginia Electric and Power Company, d/b/a Dominion Energy North Carolina, for Approval of Residential Income and Age Qualifying Home Improvement Program*, Motion to Reopen Program, Docket No. E-22, Sub 523 (May 31, 2018).

1 approved reopening the RIAQHI Program.¹⁵ In March 2021, the Company
2 filed a motion to close the Program with the intent to bring a new replacement
3 Program as soon as possible in its North Carolina service territory, which the
4 Commission approved by order issued April, 2021.¹⁶

5 In July 2016, the Company requested Commission approval to implement the
6 “Phase V” Non-Residential Small Business Improvement Program. After
7 Commission approval in October 2016,¹⁷ the Company launched the Program
8 beginning on January 1, 2017. In April 2021, the Company filed a motion to
9 close the Program, which the Commission approved by order issued May 19,
10 2021.¹⁸

11 In October 2016, the Company requested Commission approval to implement
12 an instant discount type of North Carolina-only Residential Retail LED
13 Lighting Program during 2017 and 2018. The Commission approved the
14 North Carolina-only Residential Retail LED Lighting Program in December
15 2016.¹⁹ On August 16, 2018, the Company filed a Motion to close the
16 Program effective with the end of the contemplated two-year duration,²⁰
17 which the Commission approved by order issued October 16, 2018.²¹

18 In August 2017, the Company requested Commission approval to implement
19 the “Phase VI” Non-Residential Prescriptive Program. After Commission

¹⁵ *Order Approving Reopening Program*, Docket No. E-22, Sub 523 (June 26, 2018).

¹⁶ *Order Closing Program*, Docket No. E-22, Sub 523 (Apr. 13, 2021).

¹⁷ *Order Approving Program*, Docket No. E-22, Sub 538 (Oct. 26, 2016).

¹⁸ *Order Terminating Program*, Docket No. E-22, Sub 538 (May 19, 2021).

¹⁹ *Order Approving Program*, Docket No. E-22, Sub 539 (Dec. 20, 2016).

²⁰ See Motion to Close Phase III Programs, *supra* n. 7.

²¹ *Order Canceling Program*, Docket No. E-22, Sub 539 (Oct. 16, 2018).

1 approval in October 2017,²² the Company launched the Program in North
2 Carolina beginning on January 1, 2018.

3 In July 2019, the Company requested Commission approval to implement the
4 following “Phase VII” DSM/EE Programs:

- 5 • Residential Appliance Recycling Program;²³
- 6 • Residential Efficient Products Marketplace Program;²⁴
- 7 • Residential Home Energy Assessment Program;²⁵
- 8 • Non-Residential Small Manufacturing Program;²⁶
- 9 • Non-Residential Window Film Program;²⁷
- 10 • Non-Residential Heating and Cooling Efficiency Program;²⁸
- 11 • Non-Residential Lighting Systems and Controls program;²⁹ and
- 12 • Non-Residential Office.³⁰

13 The Commission approved the eight Phase VII Programs on November 13,
14 2019,³¹ and the Company launched the Programs in North Carolina beginning
15 on January 1, 2020.

16 Three additional potential system-wide Phase VII Programs, the Residential
17 Customer Engagement Program and Residential Thermostat (EE) and (DR)

²² *Order Approving Program*, Docket No. E-22, Sub 543 (Oct. 16, 2017).

²³ Docket No. E-22, Sub 569.

²⁴ Docket No. E-22, Sub 568.

²⁵ Docket No. E-22, Sub 567.

²⁶ Docket No. E-22, Sub 571.

²⁷ Docket No. E-22, Sub 570.

²⁸ Docket No. E-22, Sub 574.

²⁹ Docket No. E-22, Sub 573.

³⁰ Docket No. E-22, Sub 572.

³¹ *Order Approving Programs*, Docket No. E-22, Subs 567-574 (Nov. 13, 2019).

1 Programs, which had initially been approved in Virginia in May of 2019, were
2 not filed with the NCUC in July of 2019 for deployment in North Carolina.
3 Shortly after approval in Virginia, the Company determined that additional
4 program design clarifications were required and that the Programs needed to
5 be refiled with the VSCC as part of the Company's 2019 Virginia DSM filing.
6 On July 30, 2020, the VSCC issued a final order³² approving the re-filed
7 Residential Customer Engagement and Residential Thermostat (EE) and (DR)
8 Programs. The VSCC also approved the Company's planned Phase VIII
9 Programs. The Residential Thermostat (EE) and (DR) Programs were brought
10 to North Carolina as part of the Company's Phase VIII DSM/EE Programs as
11 discussed below.

12 In November 2020, the Company requested Commission approval to
13 implement the following "Phase VIII" DSM/EE Programs:

- 14 • Residential Smart Thermostat (EE) Program³³;
- 15 • Residential Smart Thermostat (DR) Program³⁴;
- 16 • Residential Energy Efficiency Kits Program³⁵;
- 17 • Residential Home Retrofit Program³⁶;
- 18 • Small Business Enhanced Program³⁷; and

³² *Petition of Virginia Electric and Power Company for approval to implement new demand-side management programs and for approval of two updated rate adjustment clauses pursuant to § 56-585.1 A 5 of the Code of Virginia, Final Order Case No. PUR-2019-00201 (July 30, 2020) ("2018 Virginia DSM Order").*

³³ Docket No. E-22, Sub 595.

³⁴ Docket No. E-22, Sub 594

³⁵ Docket No. E-22, Sub 592.

³⁶ Docket No. E-22, Sub 593.

³⁷ Docket No. E-22, Sub 596.

- 1 • Non-Residential New Construction Program³⁸

2 The Commission approved the six Phase VIII Programs in February, 2021³⁹
3 and the Company began to launch the Programs in North Carolina in the first
4 quarter of 2021.

5 In September of 2021, the Company requested Commission approval to
6 implement the Phase IX Residential Income and Age Qualifying Program.

7 The Commission approved the program on December 14, 2021,⁴⁰ and the
8 Company launched the program in North Carolina beginning on January 1,
9 2022.

10 In February 2022, the Company requested Commission approval to implement
11 the following “Phase IX” DSM/EE Programs:

- 12 • Residential Water Savings (EE) Program⁴¹;
- 13 • Residential Water Savings (DR) Program⁴²;
- 14 • Residential Virtual Audit Program⁴³;
- 15 • Residential Smart Home Program⁴⁴;
- 16 • Non-Residential Enhanced Prescriptive Program⁴⁵;
- 17 • Non-Residential Engagement Program⁴⁶;

³⁸ Docket No. E-22, Sub 591.

³⁹ *Order Approving Programs*, Docket No. E-22, Subs 591-596 (Feb. 9, 2021).

⁴⁰ *Order Approving Program*, Docket No. E-22, Sub 608 (Dec. 14, 2021).

⁴¹ Docket No. E-22, Sub 621.

⁴² Docket No. E-22, Sub 620.

⁴³ Docket No. E-22, Sub 619.

⁴⁴ Docket No. E-22, Sub 618.

⁴⁵ Docket No. E-22, Sub 617.

⁴⁶ Docket No. E-22, Sub 616.

- 1 • Non-Residential Building Optimization Program⁴⁷; and
- 2 • Non-Residential Building Automation Program⁴⁸

3 The Commission approved the eight Phase IX Programs in May 2022,⁴⁹ and

4 the Company will begin to launch the Programs in North Carolina in the third

5 quarter of 2022.

6 **Q. Please provide a brief update on the Company's implementation of the**

7 **approved DSM/EE Programs in North Carolina.**

8 A. The approved DSM/EE Programs have been successful in North Carolina.

9 The Company launched the Phase I Residential Lighting Program in May

10 2011, and over 37,000 bulbs were sold through December 31, 2011, when the

11 Program was completed. Through the Low Income Program, the Company

12 has performed approximately 930 low income audits and repairs in North

13 Carolina during the period June 2011 through June 30, 2015. Through the Air

14 Conditioner Cycling Program, the Company began installing air conditioner

15 cycling devices in August 2011, and approximately 2,999 customers are

16 participating in the Program as of June 30, 2020.

17 The Phase II Programs launched in North Carolina in January 2014. Since

18 Program launch through suspension of the Phase II Programs in February

19 2017, approximately 5,294 units have been serviced as part of the Residential

20 Heat Pump Tune-Up Program and 1,349 units have been upgraded in North

⁴⁷ Docket No. E-22, Sub 615.

⁴⁸ Docket No. E-22, Sub 614.

⁴⁹ *Order Approving Programs*, Docket No. E-22, Subs 614-621 (May 10, 2022).

1 Carolina to more efficient models as part of the Residential Heat Pump
2 Upgrade Program. The Residential Duct Sealing Program has resulted in
3 testing and repair of duct work associated with approximately 554 heat pump
4 units. Approximately 1,049 residential customers have received customized
5 energy audit reports and direct install measures as part of the Residential
6 Home Energy Check-Up Program.

7 Examples of direct install measures include installing compact fluorescent
8 light bulbs, faucet aerators, and door weather-stripping. The Non-Residential
9 Energy Audit Program has provided approximately 115 audits to North
10 Carolina customers since Program launch through Program closure in
11 February 2017. Of these 115 audits, 108 customers have installed approved
12 measures and obtained a rebate as part of the Program. The Non-Residential
13 Duct Testing & Sealing Program has had approximately 250 participants in
14 North Carolina since Program launch.

15 The Non-Residential Phase III Programs launched in North Carolina in
16 January 2015. Since Program launch through the closing of the Phase III
17 Programs in December 2019, 303 commercial and industrial customers have
18 participated in the Company's Phase III Programs in North Carolina.

19 The Phase IV RIAQHI Program launched in North Carolina in January 2016.
20 Since Program launch through the closing of the Phase IV RIAQHI Program
21 in April 2021, 511 residential customers participated in the Program.

22 The Phase V Non-Residential Small Business Improvement Program became
23 available to qualifying customers in January 2017. Since Program launch

1 through the closing of the Phase V Small Business Improvement Program in
2 January 2021, 112 customers participated in the Program.

3 The Phase VI Non-Residential Prescriptive Program became available to
4 qualifying customers in January 2018. As of June 30, 2022, 136 North
5 Carolina customers have participated in the Company's Phase VI Program.

6 The Company's North Carolina-only Residential Retail LED Lighting
7 Program launched in 2017. Since Program launch through the closing of the
8 NC-only Program in December 2018, there were 82 active stores in North
9 Carolina that sold over 320,644 bulbs as part of the Residential Retail LED
10 Lighting Program.

11 The Company's Phase VII Programs became available to qualifying
12 customers in January 2020. The COVID-19 pandemic has slowed initial
13 customer participation in the new Phase VII Programs as well as the
14 Company's other Programs in 2020; however, the Company and its program
15 implementation vendors continued to market the programs through the
16 appropriate channels. As of June 30, 2022, 253,601 energy efficiency
17 measures were discounted as point-of-sales purchases and a total of 1,610
18 appliances were rebated as part of the DSM Phase VII Residential Efficient
19 Products Marketplace Program within the Company's North Carolina service
20 territory. A total of 93 North Carolina customers have participated in the other
21 DSM Phase VII Program offerings.

1 The Company's Phase VIII Programs were launched in the first quarter of
2 2021. Since the launch of the Phase VIII Programs, 1,980 North Carolina
3 customers have participated in the Phase VIII Programs. As of June 30, 2022,
4 the Company has 43 participating contractors delivering its portfolio of
5 DSM/EE Programs and measures to North Carolina customers.

6 **Q. Does the Company anticipate proposing additional Programs for**
7 **Commission approval and deployment in North Carolina later in 2022?**

8 A. Yes. As the Commission is aware, the Company's EC group develops the
9 Company's DSM/EE program portfolio to be deployed on a system-wide
10 basis and in "phases," with program approval first being sought in Virginia
11 and, if approved in Virginia, then sought in North Carolina where practical
12 and cost effective. In December 2021, the Company filed a number of new
13 "Phase X" programs for approval in Virginia, that, if approved, would be
14 brought to North Carolina for approval to deploy the programs on a system-
15 wide basis.⁵⁰ These potential "Phase X" programs include the Residential
16 Income and Age Qualifying Home Energy Report, the Non-Residential Water
17 Income and Age Qualifying Program for Health Care and Rental Property
18 Owners, the Small Business Behavioral, the Non-residential Data Centers and
19 Server Rooms, the Non-residential Health Care and the Non-residential Hotel
20 and Lodging Programs. Additionally, the Company filed for the extension of

⁵⁰ The Company's Phase X Programs are pending before the Virginia State Corporation Commission in VSCC Case No. PUR-2021-00247. *Petition of Virginia Electric and Power Company for approval of its 2019 DSM Update pursuant to § 56-585.1 A 5 of the Code of Virginia*, Case No. PUR-2021-000247 (filed Dec. 14, 2021).

1 the Non-residential Lighting Systems & Controls Program and an
2 enhancement to its Residential Income and Age Qualifying Home
3 Improvement Program. Notably, these residential and non-residential
4 programs are intended to provide qualifying customers with a wide variety of
5 energy saving options suited to their residencies and facilities.

6 **Q. Has the VSCC approved the Phase X Programs for deployment in the**
7 **Company's Virginia jurisdiction?**

8 A. Not at this time. The Company anticipates receiving a final order to be issued
9 by the VSCC in the third quarter of 2022. The Company anticipates filing for
10 Commission approval of the prospective Phase X Programs during the fourth
11 quarter of 2022 or first quarter of 2023, and requesting approval to open the
12 Programs for participation in North Carolina by Summer 2023, pending final
13 VSCC Commission approval.

14 **Q. Is the Company planning to suspend or close any approved Programs in**
15 **the near future?**

16 A. Yes. The Company recently closed the DSM Phase VII Non-Residential
17 Lighting Systems and Control Program in Virginia, due to an exhaustion of
18 the approved budget, and will soon close the program in North Carolina. The
19 Company has proposed an extension of the Non-residential Lighting Systems
20 and Control Program for which the Company is seeking approval as part of its
21 Phase X programs in Virginia. Once approved, the Company plans to bring
22 the new Non-residential Lighting Systems and Control Program to North
23 Carolina, if it meets the required cost benefit requirements. Additionally, the

1 Company will close the DSM Phase I A/C Cycling Program following the
2 2022 cycling season, which concludes in September. Following the closure of
3 the A/C Cycling Program, the Company will offer customers the option to
4 participate in the Residential Smart Thermostat DR Program approved as part
5 of the Phase VIII programs as discussed above.

6 **Q. Does the Company also have additional plans to evaluate future DSM**
7 **Programs?**

8 A. Yes. As a result of an ongoing stakeholder process, the EC group is currently
9 evaluating bids submitted in response to a request for proposals (“RFP”)
10 issued in Spring of 2022 for new DSM Program design ideas for development
11 into potential future system-wide Programs. The Company will soon evaluate
12 the results of the 2022 Program design RFP and anticipates seeking approval
13 by the VSCC for a number of new residential and non-residential DSM/EE
14 Program designs later this year, which, if approved in Virginia, would then
15 potentially be brought to North Carolina to be offered on a system-wide basis.

16 II. OVERVIEW OF APPLICATION

17 **Q. What is the purpose of the Company’s Application in this proceeding?**

18 A. In this Application, the Company is filing its annual update and requesting
19 approval of an updated Rider C revenue requirement to be recovered during
20 February 1, 2023 through January 31, 2024, the proposed rate period (“Rate
21 Period”), as well as seeking true up of January 1, 2021 through December 31,
22 2021 (“Test Period”) costs through the Company’s EMF rider, Rider CE.

1 **Q. Please provide a brief overview of the Company’s approach to cost**
2 **recovery for its North Carolina DSM/EE Programs as set forth in this**
3 **Application.**

4 A. The costs of the Company’s approved DSM/EE Programs have been
5 recovered during each annual R8-69 cost recovery proceeding in accordance
6 with the Agreement and Stipulation of Settlement agreed to between the
7 Public Staff and the Company in the Company’s initial 2010 cost recovery
8 proceeding (“Stipulation”), as well as the Cost Recovery and Incentive
9 Mechanism attached as Stipulation Exhibit 1 to the Stipulation.⁵¹

10 In the fall of 2014, in accordance with provisions of the original Stipulation,
11 the Commission undertook a review of the Stipulation and Cost Recovery and
12 Incentive Mechanism. On May 7, 2015, after receiving comments from the
13 Company and the Public Staff, the Commission approved a revised Cost
14 Recovery and Incentive Mechanism that governed cost recovery in the 2015
15 and 2016 annual proceedings.⁵² The 2015 Mechanism Order also required the
16 Company and the Public Staff to file by March 1, 2017, as extended, an
17 updated performance incentive proposal for Commission review and approval.
18 On April 20, 2017, the Company and the Public Staff filed a Joint Proposal for
19 New PPI, with a revised Cost Recovery and Incentive Mechanism attached as

⁵¹ *Order Approving Agreement and Stipulation of Settlement, Approving DSM/EE Rider, and Requiring Compliance Filing*, Docket No. E-22, Sub 464 (Oct. 14, 2011).

⁵² *Order Approving Revised Cost Recovery and Incentive Mechanism and Granting Waiver*, Docket No. E-22, Sub 464 (May 7, 2015) (“2015 Mechanism Order”).

1 Appendix A (the “Mechanism”). The Commission issued an Order approving
2 the revised Mechanism on May 22, 2017.⁵³

3 The Commission approved a newly revised Mechanism by order issued March
4 22, 2022. Through the revisions to the Mechanism agreed to between the
5 Company and the Public Staff and approved by the Commission on March 22,
6 2022, the Mechanism continues to provide for a “portfolio performance
7 incentive applicable to measures installed beginning with vintage year 2017.”⁵⁴
8 The Mechanism as revised in 2017 and 2022 governs cost recovery for the
9 instant Application and the Company has developed its Application and pre-
10 filed testimony in accordance with the procedures set forth in the Mechanism.

11 **Q. Will the Company present other witnesses in this proceeding?**

12 A. Yes. Company Witness Edmund J. Hall, Energy Market Strategic Advisor,
13 Demand-Side Planning, will provide certain information required by NCUC
14 Rule R8-69(f)(1)(ii)(a), (b), (d), and (e), as well as the Utility Cost Test
15 (“UCT”), and supporting documentation for the PPI Test Period and projected
16 Vintage Year calculations made pursuant to the Mechanism. Company
17 Witness Hall will also present the Company’s evaluation, measurement and
18 verification (“EM&V”) cost projections and lost energy sales from EE
19 Programs during the EMF Test Period. Company Witness Jarvis E. Bates,
20 Energy Conservation Compliance Consultant, will support the projected

⁵³ *Order Approving Revised Cost Recovery and Incentive Mechanism*, Docket No. E-22, Sub 464 (May 22, 2017) (“2017 Mechanism Order”).

⁵⁴ *Order Approving Revised Cost Recovery and Incentive Mechanism*, Docket No. E-22, Sub 464 (March 22, 2022) (“2022 Mechanism Order”).

1 Calendar Year 2022 costs associated with the Company's DSM/EE Programs
2 to be recovered during the Rate Period, actual costs associated with the
3 Company's DSM/EE Programs during the Test Period, as well as provide
4 information on the Company's event sponsorship and consumer education
5 initiatives during the Test Period and customer opt-outs pursuant to
6 Commission Rule R8-69(d)(2). Company Witness Justin Wooldridge,
7 Regulatory Analyst II, will present the revenue requirements associated with
8 the DSM/EE Programs for Calendar Year 2022 to be recovered during the
9 Rate Period as well as the EMF revenue requirements associated with the
10 DSM/EE Programs to be recovered during the Rate Period. Company
11 Witness Christopher C. Hewett, Regulatory Specialist, will explain the
12 proposed assignment and allocation of costs to the North Carolina jurisdiction
13 for the DSM/EE Programs. Company Witness Casey R. Lawson, Regulatory
14 Analyst II, will present the calculation of the proposed updated Rider C and
15 EMF Rider CE.

16 **Q. Are the Company's North Carolina DSM/EE Programs consistent with**
17 **the Company's system-wide integrated resource plan ("Plan")?**

18 A. Yes. The Company has developed its Plan using a least cost modeling
19 methodology of reliable supply-side and demand-side options, pursuant to
20 North Carolina statutory and Commission policies. The Company's
21 operational and prospective Phase IX DSM/EE Programs were included in the
22 2021 biennial Integrated Resource Plan, which was filed September 1, 2021.

1 **Q. Please discuss the utility incentive the Company proposes for inclusion in**
2 **the DSM/EE Rider.**

3 A. The Company requests to recover a Rate Period PPI representing, as
4 introduced above, a projected portfolio performance incentive as approved in
5 the revised Mechanism. The Company also requests recovery of the Test
6 Period PPI for Vintage Year 2021 and prior years.

7 First, PPI “actual” results from pertinent vintage years (2016 and prior) were
8 calculated using the methodology identical to past DSM/EE cases. Starting
9 with the 2017 vintage year, PPI “actual” results are calculated using the
10 updated portfolio methodology as approved in 2017.

11 Second, Projected PPI “estimates” for vintage year 2023, and for vintage year
12 2022⁵⁵, are calculated in accordance with Paragraph 55(g) of the Mechanism.
13 Company Witness Bates discusses these calculations in further detail.

14 **Q. Has the Company projected Rate Period net lost revenues in the utility**
15 **incentives to be recovered during the Rate Period?**

16 A. Not at this time in this proceeding. Consistent with the approach taken in
17 recent cost recovery applications, the Company has not projected lost
18 revenues and proposes to include \$0 as the projected Rate Period net lost
19 revenue utility incentive for this proceeding.

⁵⁵ In accordance with Paragraph 55(b) with the Mechanism update agreed upon and approved by the Commission on May 22, 2017.

1 The current Rider CE will true up the Company's recovery of net lost
2 revenues during the Test Period, as supported by Company Witness
3 Wooldridge's testimony.⁵⁶

4 **Q. Has the Company identified any found revenues to offset its request to**
5 **recover net lost revenues?**

6 A. No. Consistent with Paragraph 47 of the Mechanism, the Company has
7 evaluated its North Carolina activities for potential found revenues using the
8 decision tree set forth in Attachment A of the Mechanism. Specifically, the
9 Company's EC, Rates, and Customer Solutions departments (which
10 collectively oversee Dominion Energy North Carolina's tariffs, Programs, and
11 utility-funded activities) evaluated the Company's North Carolina activities
12 during the Test Period to determine whether its activities may be causing
13 customers to increase demand or energy consumption, resulting in found
14 revenues. The Company's review of its North Carolina activities under the
15 decision tree has not identified any activities that resulted in found revenues
16 during the Test Period and has not identified any activities that would result in
17 projected found revenues during the Rate Period.

⁵⁶ Should the Company's projection of net lost revenues again become significant, it could choose to request projected cost recovery in a future proceeding, as provided for in the Mechanism.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23

III. OVERVIEW OF COST RECOVERY REQUEST

Q. Please summarize the components of updated Rider C and Rider CE and resulting revenue requirements proposed to be recovered in this proceeding.

A. In accordance with Rule R8-69 and the Mechanism, updated Rider C will recover the Company's North Carolina allocated share (including 100% assigned cost of the North Carolina-only Programs) of the following components during the Rate Period: (i) the Company's projected costs of implementing the approved DSM/EE Programs during calendar year 2023; (ii) the Company's projected Common Costs to be incurred during calendar year 2023; and (iii) the Company's streamlined projected PPI. The Company's updated Rider C revenue requirement for the Rate Period is \$3,985,123 as further detailed in Schedule 1 of Company Witness Wooldridge's testimony.

In accordance with Rule R8-69 and the Mechanism, the Company's EMF Rider CE will true up and recover any under-recovery or refund any over-recovery of the Company's North Carolina allocated share (including 100% assigned cost of the North Carolina-only Programs) of the following components: (i) the Company's Test Period costs of implementing the approved DSM/EE Programs; (ii) the Company's Test Period Common Costs; (iii) the Company's Test Period Net Lost Revenues; and (iv) the Company's Test Period PPI. The Company's Rider CE revenue requirement for the Rate Period is \$982,099 as further detailed in Schedule 2 of Company Witness Wooldridge's testimony.

1 Q. Does that conclude your prefiled direct testimony?

2 A. Yes, it does.

**BACKGROUND AND QUALIFICATIONS
OF
MICHAEL T. HUBBARD**

Michael T. Hubbard is Manager – Energy Conservation for Dominion Energy North Carolina. Since 2008, his responsibilities have included oversight of the design and implementation of new Demand Side Management programs, including vendor retention and oversight. In 2010, he served on the Virginia Governor’s Operational Review Taskforce to reduce costs and improve efficiencies for state government and also served on the board of the Richmond Region Energy Alliance, working with stakeholders on key energy efficiency issues. He is a certified Six Sigma Green Belt.

Mr. Hubbard joined Dominion Virginia Power in 1996 and has served in a number of regulatory and customer service-related leadership roles in the Delivery and Service Company organizations.

While in the position of Underground Damage Prevention Manager, he was appointed to serve on the State Corporation Commission of Virginia’s Advisory Committee for matters concerning the enforcement of the Virginia Underground Utility Line Damage Prevention Act, and also served on the board of directors that formed a new statewide Miss Utility call center.

Mr. Hubbard has a B.S. in History from Hampden-Sydney College and M.S.L.S. (Masters in Library Sciences) from the University of Kentucky, and is a member of the Phi Beta Kappa National Honor Society.

Mr. Hubbard has previously presented testimony before the North Carolina Utilities Commission and the State Corporation Commission of Virginia.

**DIRECT TESTIMONY
OF
EDMUND J. HALL
ON BEHALF OF
DOMINION ENERGY NORTH CAROLINA
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-22, SUB 645**

1 **Q. Please state your name, business address, and position with Virginia**
2 **Electric and Power Company (“Dominion Energy North Carolina” or the**
3 **“Company”).**

4 **A.** My name is Edmund J. Hall and I am an Energy Market & DSP Strategic
5 Advisor in Demand-Side Planning, which is part of the Company’s Strategic
6 Planning Analysis & Consolidation department. My business address is 120
7 Tredegar Street, Richmond, Virginia 23219. A statement of my background
8 and qualifications is attached as Appendix A.

9 **Q. Please describe your area of responsibility with the Company.**

10 **A.** I am responsible for the evaluation of Dominion Energy North Carolina’s
11 demand-side management (“DSM”) and energy efficiency (“EE”) programs
12 (“DSM/EE Programs” or “Programs”). This includes detailed analyses of
13 approved and proposed DSM/EE Programs and the incorporation of DSM and
14 EE measures into the Company’s Integrated Resource Planning (“IRP”)
15 process and long-term Integrated Resource Plan (the “Plan”). My
16 responsibilities also include planning, organizing, and coordinating
17 evaluation, measurement, and verification (“EM&V”) work for all DSM/EE
18 Programs through an independent third-party EM&V contractor, DNV. This

1 responsibility includes ensuring EM&V data is collected and made available
2 to DNV for review and analysis, reviewing EM&V processes and reports, and
3 coordinating all pertinent EM&V activities.

4 **Q. What is the purpose of your testimony in this proceeding?**

5 A. My testimony supports Dominion Energy North Carolina's request to recover
6 all reasonable and prudent costs incurred in adopting and implementing the
7 Company's portfolio of DSM/EE Programs as well as utility incentives,
8 through its updated Rider C, as well as the Company's experience
9 modification factor ("EMF") rider, Rider CE ("Application"). The purpose of
10 my testimony is to support the true up of lost revenues and the Company's
11 EM&V cost projections, as well as to provide certain information required by
12 North Carolina Utilities Commission ("NCUC" or "Commission") Rule
13 R8-69(f)(1)(ii)(a), (b), (d), and (e), with respect to the Company's DSM/EE
14 Programs. Regarding EM&V, my testimony will: (i) show the energy
15 savings for the previously-approved EE Programs over the EMF period
16 January 1, 2021, through December 31, 2021 ("Test Period"), for purposes of
17 calculating the Company's EMF; (ii) support the Company's EM&V costs
18 over the January 1, 2023, through December 31, 2023, calendar year
19 ("Calendar Year 2023") for the North Carolina jurisdiction, as well as the Test
20 Period; and (iii) provide information on Air Conditioner Cycling Program and
21 the Residential Smart Thermostat Management Program's activation events
22 that occurred during the Test Period as required by Rule R8-69(f)(1)(iii)(g).
23 My testimony will also provide the Utility Cost Test ("UCT") and supporting

1 documentation for the Portfolio Performance Incentive (“PPI”) calculations
2 for the Test Period and the upcoming Calendar Year 2023. My testimony has
3 been developed in accordance with the revised Cost Recovery and Incentive
4 Mechanism (“Mechanism”) approved by the Commission on March 22, 2022,
5 in Docket No. E-22, Sub 464.

6 **Q. Mr. Hall, are you sponsoring any exhibits or schedules in connection with**
7 **your testimony?**

8 A. Yes. Company Exhibit EJH-1, consisting of Schedules 1-7 (Schedule 5
9 provided in public and confidential versions filed under seal), was prepared
10 under my supervision and is accurate and complete to the best of my
11 knowledge and belief. The Schedules I am sponsoring provide the following
12 information in support of the Company’s Application:

- 13 1. Schedule 1 of my pre-filed direct testimony provides the Company’s
14 total revenue requirement, avoided costs, and Calendar Year 2023
15 summer and winter peak and energy savings per unit measure for the
16 Company’s DSM/EE Programs, as required by Rule R8-69(f)(1)(ii)(a),
17 (b), (d), and (e) and calculated consistent with the Mechanism.
- 18 2. Schedule 2 provides a UCT and TRC calculation for each Program and
19 the portfolio of Programs for the projected Vintage Year 2023, as
20 defined in Paragraph 14 of the Mechanism.
- 21 3. Schedule 3 provides a comparison of the forecasted energy and
22 summer and winter capacity reductions for the Company’s ongoing

- 1 DR programs and the Company's ongoing DSM/EE Programs, as
2 required by Rule R8-69(f)(1)(iii)(h).
- 3 4. Schedule 4 provides the cost-effectiveness test evaluations required by
4 Paragraph 41 of the Mechanism.
- 5 5. Schedule 5 provides the Company's actual incurred EM&V costs
6 during the Test Period, as well as projected EM&V costs during the
7 Calendar Year 2023.
- 8 6. Schedule 6 supports the calculation of estimated energy savings for all
9 DSM/EE Phase III, IV, V, VI, VII & VIII programs, over the Test
10 Period for the EMF Rider, which is based on actual EM&V data
11 collected and analyzed by DNV.
- 12 7. Schedule 7 presents the date, weather conditions, event trigger,
13 customer enrollment and activation data, event duration, hour ending,
14 kW demand requested, and kW demand reductions observed for both
15 the Air Conditioner Cycling Program and the Residential Smart
16 Thermostat Management Program during the Test Period.
- 17 **Q. Please explain the information you have provided in your Schedule 1.**
- 18 A. My Schedule 1 first presents the system-level revenue requirement per
19 appropriate capacity, energy, and measure unit metric, for each ongoing Phase

1 I,¹ Phase VII,² Phase VIII³, and Phase IX⁴ DSM/EE Programs during the Rate
2 Period. This table was developed using the revenue requirement amounts
3 requested for recovery during the upcoming Rate Period, as provided in
4 Company Witness Justin Wooldridge's Schedule 1. Next, my Schedule 1
5 provides the system-level avoided costs per appropriate capacity, energy, and
6 measure unit metric, for each of the approved going-forward Phase VII, Phase
7 VIII, and IX programs. The proposed jurisdictional allocation factors, as
8 required by Rule R8-69(f)(1)(ii)(b), are provided in Company Witness
9 Christopher C. Hewett's Schedule 4. Finally, my Schedule 1 shows the total
10 expected system-level energy and summer and winter capacity reductions for
11 each Program in the aggregate and per appropriate capacity, energy, and
12 measure unit metric for Calendar Year 2023. The per unit cost for the Air
13 Conditioning Cycling Program is based on summer demand reductions.

¹ The Company's ongoing Phase I DSM/EE Program is the Residential Air Conditioner Cycling Program (Docket No. E-22, Sub 465).

² The Company's Phase VII programs are the Residential Appliance Recycling Program, Residential Efficient Products Marketplace Program, Residential Home Energy Assessment Program, Non-residential Small Manufacturing Program, Non-residential Window Film Program, Non-residential Heating and Cooling Efficiency Program, Non-residential Lighting Systems and Controls program, and Non-residential Office (Docket No. E-22, Subs 567-574).

³ The Company's Phase VIII programs are the Residential Smart Thermostate (EE and DR) Programs, Residential Energy Efficiency Kits Program, Residential Home Retrofit Program, Small Business Enhanced Program, and Non-residential New Construction Program (Docket No. E-22, Subs 591-596).

⁴ The Company's Phase IX programs are the Residential Income and Age Qualifying Program, Residential Water Savings (EE and DR) Programs, Residential Virtual Audit Program, Residential Smart Home Program, Non-residential Enhanced Prescriptive Program, Non-residential Engagement Program, Non-residential Building Optimization Program, and Non-residential New Construction Program (Docket No. E-22, Subs 614-621).

1 **Q. By the terms of the Mechanism, how was the UCT developed in support**
2 **of the Calendar Year 2023 PPI calculation?**

3 A. The UCT used to support the calculation of the Calendar Year 2023 PPI for
4 each Vintage Year was developed in accordance with Paragraphs 13-14 of the
5 Mechanism. The Plexos generation planning model, a computer modeling
6 and resource optimization tool along with the Company's Load Management
7 Tool (LMT) was used to calculate a projected UCT based on the 2023 Vintage
8 Year (as defined in Paragraph 14 of the Mechanism), using the base case
9 assumptions consistent with the Company's most recent 2021 Integrated
10 Resource Plan, as filed with the Commission on September 1, 2021, in Docket
11 No. E-100, Sub 165 ("2021 Plan"). Because the Company's system for
12 modeling projected costs and benefits is based on the calendar year, in this
13 proceeding the Company is applying the projected costs for Calendar Year
14 2023 to the proposed February 1, 2023 – January 31, 2024 Rate Period, which
15 is discussed in the direct testimonies of Company Witness Michael T.
16 Hubbard and Company Witness Justin Wooldridge.

17 **Q. Please explain the role of the UCT Test in calculating PPI under the**
18 **Mechanism for Vintage Year 2023 for recovery during the Rate Period.**

19 A. In accordance with Paragraph 53 of the Mechanism, the PPI shall be based on
20 the net dollar savings of the Company's DSM/EE portfolio, as calculated
21 using the UCT. Pursuant to Paragraph 52 of the Mechanism, Low-Income
22 Programs or other programs explicitly approved with expected UCT results
23 less than 1.00 shall not be included in the portfolio for purposes of the PPI

1 calculation. However, for purposes of PPI determination, Low Income
2 Programs shall be included, as appropriate, in dispatch calculations to
3 determine avoided kW and kWh associated with Programs eligible for a PPI.
4 My Schedule 2 presents the 2023 Vintage Year UCT and total resource cost
5 (“TRC”) cost/benefit portfolio scores, as well as the individual program scores
6 pursuant to Paragraphs 52-53 of the Mechanism.

7 **Q. Please explain the information you have provided in your Schedule 3.**

8 A. My Schedule 3 presents forecasted energy and summer and winter capacity
9 reductions at the generator for the Company’s ongoing Phase I, Phase VII,
10 Phase VIII, and Phase IX DSM/EE Programs during Calendar Year 2023.
11 Specifically, Schedule 3 provides a comparison of the Phase I, Phase VII and
12 Phase VIII Programs forecasted in the Company’s 2021 Plan and the 2020
13 Plan. Generally, differences in the forecasted energy and capacity reductions
14 can be explained by differences in program modeling assumptions, ending
15 programs such as the Company’s Air Conditioning Program, changes in
16 penetration levels and updates to program load shapes. These differences
17 arise in part from data collected through the EM&V process and changes to
18 implementation schedules.

19 **Q. Did the Company perform going-forward cost/benefit results for existing**
20 **Programs as required by Paragraph 41 of the Mechanism?**

21 A. Yes. Going-forward cost/benefit results were performed for the Phase VII,
22 Phase VIII, and Phase IX Programs, and are included in my Schedule 4.

1 **Q. What are the Company's objectives for EM&V?**

2 A. The objectives of the Company's EM&V are to provide an assessment of each
3 Program's progress toward its goals, including tracking actual cumulative
4 indicators over time versus the planning assumptions, such as the number of
5 participants, estimated energy (kWh) and demand (kW) savings, and Program
6 costs. EM&V tracking also provides average peak kW reduction per
7 participant, average kWh savings per participant, if appropriate, and average
8 incentive per participant for each Program.

9 **Q. Have you provided the Company's estimated EM&V cost for Calendar**
10 **Year 2023 and actual EM&V costs during the Test Period?**

11 A. Yes. My Schedule 5 provides the Company's projected EM&V costs during
12 Calendar Year 2023, as well as the Company's actual EM&V costs during the
13 Test Period for the North Carolina jurisdiction. The Company intends to
14 continue to file its annual EM&V Report with the Commission on June 15
15 each year.

16 **Q. Can you please describe the information provided in your Schedule 6?**

17 A. Yes. My Schedule 6 supports the calculation of estimated energy savings for
18 all DSM/EE Phases III, IV, V, VI, VII and VIII Programs over the Test Period
19 for the EMF Rider, which is based on actual EM&V data collected and
20 analyzed by DNV. The lost sales (kWh) reflected in this schedule will be
21 used by Company Witness Wooldridge in the calculation of lost revenues in
22 this proceeding.

- 1 **Q. Have you provided information on the Residential Air Conditioner**
2 **Cycling Program and Residential Smart Thermostat Program activation**
3 **events that occurred during the Test Period, as required by Rule R8-**
4 **69(f)(1)(iii)(g)?**
- 5 A. Yes. My Schedule 7 reflects event-based data for both the Air Conditioner
6 Cycling Program and the Residential Smart Thermostat program during the
7 Test Period, including the date, weather conditions, event trigger, customer
8 enrollment and switch activation data, event duration, hour ending, kW
9 demand requested, and kW demand reductions observed.
- 10 **Q. Does this conclude your pre-filed direct testimony?**
- 11 A. Yes, it does.

**BACKGROUND AND QUALIFICATIONS
OF
EDMUND J. HALL**

Mr. Hall graduated from North Dakota State University in 1987 with a Bachelor of Science Degree in Electrical Engineering. He joined Dominion Energy in 1987 and has held various positions in Engineering, System Planning, Project Management, and the designing and evaluation of new Smart Grid, Energy Efficiency and Demand-Side Management Programs. He is currently an Energy Market & Demand Side Planning (DSP) Strategic Advisor in the Company's Strategic Planning Analysis & Consolidation department. His group is responsible for evaluating both current and proposed demand side management and energy efficiency programs.

Mr. Hall is a certified Six Sigma Master Black Belt, a Certified Energy Manager ("CEM") and an IEEE Life Member. He jointly holds multiple patents related to Dominion's EDGE "Validator" product that statistically computes the net effects related to voltage conservation. He has also served on EPRI's Electric Vehicle Supply Equipment ("EVSE") working and standards groups.

Mr. Hall has previously testified before the North Carolina Utilities Commission and the State Corporation Commission of Virginia.

Revenue Requirement per Appropriate Unit^{1 2}
Rule R8-69(f)(1)(ii)(a)

Phase	Acronym	Program	Total Revenue Requirement (000s)	kW Reductions	MWh Reductions	DSM Cost per kW	EE Cost per MWh
7	CHV3	Non-Residential Heating and Cooling Efficiency Program	\$ 678	32,592	29,668	\$ 21	\$ 23
7	CSW2	Non-Residential Window Film Program	\$ 430	202	675	\$ 2,124	\$ 636
7	CTSM	Non-Residential Small Manufacturing Program	\$ 1,318	2,088	10,997	\$ 632	\$ 120
7	CTSO	Non-Residential Office Program	\$ 1,223	-	3,710	\$ -	\$ 330
7	RAR2	Residential Appliance Recycling Program (v2)	\$ 1,859	1,333	8,632	\$ 1,395	\$ 215
7	REE2	Residential Efficient Products Marketplace Program	\$ 11,510	37,514	300,369	\$ 307	\$ 38
7	RTHO	Home Energy Assessment	\$ 5,135	10,339	113,980	\$ 497	\$ 45
8	CNCR	Non-Residential New Construction	\$ 2,943	1,413	5,134	\$ 2,083	\$ 573
8	RHRF	Residential Home Retrofit	\$ 2,199	2,111	6,340	\$ 1,042	\$ 347
8	RKTS	Residential EE Kits	\$ 1,967	690	5,450	\$ 2,851	\$ 361
8	RTDR	Residential Smart Thermostat (DR)	\$ 2,259	19,527	-	\$ 116	\$ -
8	SBI2	Non Residential Small Business Improvement Enhanced Program	\$ 3,803	2,240	10,374	\$ 1,698	\$ 367
9	CBAS	Non-Res Building Automation Program	\$ 906	2,063	6,104	\$ 439	\$ 148
9	CBOT	Non-Res Building Optimization	\$ 1,043	2,515	7,442	\$ 415	\$ 140
9	CENG	Non-Res Engagement Program	\$ 1,489	2,138	6,325	\$ 697	\$ 235
9	CNR2	Non-Residential Enhanced Prescriptive Program	\$ 4,130	5,428	25,107	\$ 761	\$ 164
9	EAL4	Enhancement of Residential Income and Age Qualifying	\$ 7,326	335	822	\$ 21,875	\$ 8,909
9	RSMH	Residential Smart Home Program	\$ 2,394	2,668	11,223	\$ 897	\$ 213
9	RVAU	Residential Virtual Audit Program	\$ 3,430	9,035	26,065	\$ 380	\$ 132
9	RWDR	Residential Water Savings (DR) Program	\$ 331	713	0	\$ 465	\$ -
9	RWEE	Residential Water Savings (EE) Program	\$ 1,118	2,110	4,181	\$ 530	\$ 267
8	RTEE PORT	Residential Thermostat EE & Behavioral	\$ 1,268	8,145	11,848	\$ 156	\$ 107
99	PORT	Portfolio	\$ 60,846	106,922	594,448	\$ 569	\$ 102

Note: 1) Exclusive of net lost revenues

Note: 2) Based on Individual Program Evaluation

Note: 3) Energy and demand reductions at the customer meter

Avoided Costs per Appropriate Unit
Rule R8-69(f)(1)(ii)(b)

Phase	Acronym	Program	Total Avoided Costs (000s)	Capacity Reductions kW	Energy Reductions MWh	DSM Avoided Cost per kW	EE Avoided Cost per MWh
7	CHV3	Non-Residential Heating and Cooling Efficiency Program	\$ 2,820	32,592	29,668	\$ 87	\$ 95
7	CSW2	Non-Residential Window Film Program	\$ 35	202	675	\$ 174	\$ 52
7	CTSM	Non-Residential Small Manufacturing Program	\$ 547	2,088	10,997	\$ 262	\$ 50
7	CTSO	Non-Residential Office Program	\$ 133	-	3,710	\$ -	\$ 36
7	RAR2	Residential Appliance Recycling Program (v2)	\$ 406	1,333	8,632	\$ 305	\$ 47
7	REE2	Residential Efficient Products Marketplace Program	\$ 13,721	37,514	300,369	\$ 366	\$ 46
7	RTHO	Home Energy Assessment	\$ 4,706	10,339	113,980	\$ 455	\$ 41
8	CNCR	Non-Residential New Construction	\$ 299	1,413	5,134	\$ 212	\$ 58
8	RHRF	Residential Home Retrofit	\$ 418	2,111	6,340	\$ 198	\$ 66
8	RKTS	Residential EE Kits	\$ 249	690	5,450	\$ 361	\$ 46
8	RTDR	Residential Smart Thermostat (DR)	\$ 1,074	19,527	-	\$ 55	\$ -
8	SBI2	Non Residential Small Business Improvement Enhanced Program	\$ 547	2,240	10,374	\$ 244	\$ 53
9	CBAS	Non-Res Building Automation Program	\$ 345	2,063	6,104	\$ 167	\$ 56
9	CBOT	Non-Res Building Optimization	\$ 420	2,515	7,442	\$ 167	\$ 56
9	CENG	Non-Res Engagement Program	\$ 357	2,138	6,325	\$ 167	\$ 56
9	CNR2	Non-Residential Enhanced Prescriptive Program	\$ 1,316	5,428	25,107	\$ 242	\$ 52
9	EAL4	Enhancement of Residential Income and Age Qualifying	\$ 56	335	822	\$ 168	\$ 69
9	RSMH	Residential Smart Home Program	\$ 566	2,668	11,223	\$ 212	\$ 50
9	RVAU	Residential Virtual Audit Program	\$ 1,516	9,035	26,065	\$ 168	\$ 58
9	RWDR	Residential Water Savings (DR) Program	\$ 39	713	0	\$ 55	\$ -
9	RWEE	Residential Water Savings (EE) Program	\$ 278	2,110	4,181	\$ 132	\$ 67
8	RTEE PORT	Residential Thermostat EE & Behavioral	\$ 782	8,145	11,848	\$ 96	\$ 66
99	PORT	Portfolio	\$ 30,631	106,922	594,448	\$ 286	\$ 52

Note: 1) Based on Individual Program Evaluation

Note: 2) Energy and demand reductions at the customer meter

2022 Summer/Winter Peak & Energy Savings
(System-Level at the Meter)
Rule R8-69(f)(1)(ii)(d)(e)

Phase	Acronym	Program	Summer MW Reductions (2022)	Winter MW Reductions (2022)	GWh Reductions (2022)
7	CHV3	Non-Residential Heating and Cooling Efficiency Program	5,888	32,592	29,668
7	CSW2	Non-Residential Window Film Program	202	-	675
7	CTSM	Non-Residential Small Manufacturing Program	2,088	884	10,997
7	CTSO	Non-Residential Office Program	-	-	3,710
7	RAR2	Residential Appliance Recycling Program (v2)	1,333	554	8,632
7	REE2	Residential Efficient Products Marketplace Program	24,178	37,514	300,369
7	RTHO	Home Energy Assessment	3,183	10,339	113,980
8	CNCR	Non-Residential New Construction	1,413	860	5,134
8	RHRF	Residential Home Retrofit	2,111	1,700	6,340
8	RKTS	Residential EE Kits	430	690	5,450
8	RTDR	Residential Smart Thermostat (DR)	19,527	-	-
8	SBI2	Non Residential Small Business Improvement Enhanced Program	2,240	1,208	10,374
9	CBAS	Non-Res Building Automation Program	647	2,063	6,104
9	CBOT	Non-Res Building Optimization	789	2,515	7,442
9	CENG	Non-Res Engagement Program	670	2,138	6,325
9	CNR2	Non-Residential Enhanced Prescriptive Program	5,428	2,721	25,107
9	EAL4	Enhancement of Residential Income and Age Qualifying	222	335	822
9	RSMH	Residential Smart Home Program	2,668	405	11,223
9	RVAU	Residential Virtual Audit Program	9,035	1,970	26,065
9	RWDR	Residential Water Savings (DR) Program	713	-	-
9	RWEE	Residential Water Savings (EE) Program	2,110	290	4,181
8	RTEE PORT	Residential Thermostat EE & Behavioral	-	8,145	11,848
99	PORT	Portfolio	84,873	106,922	594,448

Note: Based on Individual Program Evaluation

CHV3 Non-Residential Heating and Cooling Efficiency Program

Program Life 15.00

Program Phase 7

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 20,135	\$ 1,969	\$18,166	10.23	33.17
2022	\$ 1	\$ -	\$ 1		
2023	\$ 498	\$ 2,104	\$ (1,606)		
2024	\$ 2,113	\$ -	\$ 2,113		
2025	\$ 2,087	\$ -	\$ 2,087		
2026	\$ 2,145	\$ -	\$ 2,145		
2027	\$ 2,172	\$ -	\$ 2,172		
2028	\$ 2,209	\$ -	\$ 2,209		
2029	\$ 2,260	\$ -	\$ 2,260		
2030	\$ 2,300	\$ -	\$ 2,300		
2031	\$ 2,367	\$ -	\$ 2,367		
2032	\$ 2,411	\$ -	\$ 2,411		
2033	\$ 2,462	\$ -	\$ 2,462		
2034	\$ 2,574	\$ -	\$ 2,574		
2035	\$ 2,540	\$ -	\$ 2,540		
2036	\$ 2,537	\$ -	\$ 2,537		
2037	\$ 2,682	\$ -	\$ 2,682		
2038	\$ 1,991	\$ -	\$ 1,991		

Note: Based on Individual Program Evaluation

CSW2 Non-Residential Window Film Program
Program Life 10.00 Program Phase 7

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 190	\$ 443	-\$253	0.43	0.58
2022	\$ 0	\$ -	\$ 0		
2023	\$ 23	\$ 474	\$ (451)		
2024	\$ 25	\$ -	\$ 25		
2025	\$ 21	\$ -	\$ 21		
2026	\$ 22	\$ -	\$ 22		
2027	\$ 21	\$ -	\$ 21		
2028	\$ 36	\$ -	\$ 36		
2029	\$ 34	\$ -	\$ 34		
2030	\$ 35	\$ -	\$ 35		
2031	\$ 29	\$ -	\$ 29		
2032	\$ 20	\$ -	\$ 20		
2033	\$ 12	\$ -	\$ 12		

Note: Based on Individual Program Evaluation

CTSM Non-Residential Small Manufacturing Program

Program Life 12.00

Program Phase 7

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 2,759	\$ 1,335	\$1,424	2.07	4.51
2022	\$ 0	\$ -	\$ 0		
2023	\$ 161	\$ 1,427	\$ (1,266)		
2024	\$ 340	\$ -	\$ 340		
2025	\$ 333	\$ -	\$ 333		
2026	\$ 340	\$ -	\$ 340		
2027	\$ 337	\$ -	\$ 337		
2028	\$ 349	\$ -	\$ 349		
2029	\$ 355	\$ -	\$ 355		
2030	\$ 357	\$ -	\$ 357		
2031	\$ 376	\$ -	\$ 376		
2032	\$ 375	\$ -	\$ 375		
2033	\$ 391	\$ -	\$ 391		
2034	\$ 437	\$ -	\$ 437		
2035	\$ 198	\$ -	\$ 198		

Note: Based on Individual Program Evaluation

CTSO Non-Residential Office Program
Program Life 7.00 Program Phase 7

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 221	\$ 1,245	-\$1,024	0.18	0.34
2022	\$ 0	\$ -	\$ 0		
2023	\$ 28	\$ 1,331	\$ (1,303)		
2024	\$ 46	\$ -	\$ 46		
2025	\$ 35	\$ -	\$ 35		
2026	\$ 42	\$ -	\$ 42		
2027	\$ 40	\$ -	\$ 40		
2028	\$ 40	\$ -	\$ 40		
2029	\$ 45	\$ -	\$ 45		
2030	\$ 18	\$ -	\$ 18		

Note: Based on Individual Program Evaluation

RAR2 Residential Appliance Recycling Program (v2)

Program Life 8.00 Program Phase 7

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 1,247	\$ 1,876	-\$629	0.66	0.74
2022	\$ 0	\$ -	\$ 0		
2023	\$ 111	\$ 2,005	\$ (1,894)		
2024	\$ 210	\$ -	\$ 210		
2025	\$ 201	\$ -	\$ 201		
2026	\$ 208	\$ -	\$ 208		
2027	\$ 204	\$ -	\$ 204		
2028	\$ 223	\$ -	\$ 223		
2029	\$ 228	\$ -	\$ 228		
2030	\$ 230	\$ -	\$ 230		
2031	\$ 108	\$ -	\$ 108		

Note: Based on Individual Program Evaluation

REE2 Residential Efficient Products Marketplace Program

Program Life 19.00 Program Phase 7

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 43,282	\$ 10,815	\$32,467	4.00	4.56
2022	\$ 1	\$ -	\$ 1		
2023	\$ 1,738	\$ 11,557	\$ (9,819)		
2024	\$ 3,809	\$ -	\$ 3,809		
2025	\$ 3,727	\$ -	\$ 3,727		
2026	\$ 3,799	\$ -	\$ 3,799		
2027	\$ 3,777	\$ -	\$ 3,777		
2028	\$ 3,828	\$ -	\$ 3,828		
2029	\$ 3,924	\$ -	\$ 3,924		
2030	\$ 4,026	\$ -	\$ 4,026		
2031	\$ 4,109	\$ -	\$ 4,109		
2032	\$ 4,201	\$ -	\$ 4,201		
2033	\$ 4,442	\$ -	\$ 4,442		
2034	\$ 4,491	\$ -	\$ 4,491		
2035	\$ 4,667	\$ -	\$ 4,667		
2036	\$ 4,905	\$ -	\$ 4,905		
2037	\$ 4,984	\$ -	\$ 4,984		
2038	\$ 5,054	\$ -	\$ 5,054		
2039	\$ 5,314	\$ -	\$ 5,314		
2040	\$ 5,787	\$ -	\$ 5,787		
2041	\$ 6,179	\$ -	\$ 6,179		
2042	\$ 3,477	\$ -	\$ 3,477		

Note: Based on Individual Program Evaluation

RTHO Home Energy Assessment
Program Life 12.00 Program Phase 7

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 18,037	\$ 5,208	\$12,829	3.46	7.70
2022	\$ 1	\$ -	\$ 1		
2023	\$ 1,057	\$ 5,565	\$ (4,508)		
2024	\$ 2,228	\$ -	\$ 2,228		
2025	\$ 2,184	\$ -	\$ 2,184		
2026	\$ 2,215	\$ -	\$ 2,215		
2027	\$ 2,166	\$ -	\$ 2,166		
2028	\$ 2,198	\$ -	\$ 2,198		
2029	\$ 2,267	\$ -	\$ 2,267		
2030	\$ 2,382	\$ -	\$ 2,382		
2031	\$ 2,443	\$ -	\$ 2,443		
2032	\$ 2,515	\$ -	\$ 2,515		
2033	\$ 2,631	\$ -	\$ 2,631		
2034	\$ 2,626	\$ -	\$ 2,626		
2035	\$ 1,562	\$ -	\$ 1,562		

Note: Based on Individual Program Evaluation

CNCR Non-Residential New Construction
Program Life 20.00 Program Phase 8

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 3,770	\$ 2,975	\$795	1.27	3.58
2022	\$ 0	\$ -	\$ 0		
2023	\$ 139	\$ 3,179	\$ (3,041)		
2024	\$ 311	\$ -	\$ 311		
2025	\$ 306	\$ -	\$ 306		
2026	\$ 312	\$ -	\$ 312		
2027	\$ 315	\$ -	\$ 315		
2028	\$ 322	\$ -	\$ 322		
2029	\$ 341	\$ -	\$ 341		
2030	\$ 337	\$ -	\$ 337		
2031	\$ 363	\$ -	\$ 363		
2032	\$ 325	\$ -	\$ 325		
2033	\$ 369	\$ -	\$ 369		
2034	\$ 425	\$ -	\$ 425		
2035	\$ 377	\$ -	\$ 377		
2036	\$ 415	\$ -	\$ 415		
2037	\$ 416	\$ -	\$ 416		
2038	\$ 349	\$ -	\$ 349		
2039	\$ 507	\$ -	\$ 507		
2040	\$ 457	\$ -	\$ 457		
2041	\$ 605	\$ -	\$ 605		
2042	\$ 518	\$ -	\$ 518		
2043	\$ 313	\$ -	\$ 313		

Note: Based on Individual Program Evaluation

RHRF Residential Home Retrofit
Program Life 24.00 Program Phase 8

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 4,709	\$ 2,224	\$2,485	2.12	3.75
2022	\$ 0	\$ -	\$ 0		
2023	\$ 129	\$ 2,376	\$ (2,247)		
2024	\$ 341	\$ -	\$ 341		
2025	\$ 337	\$ -	\$ 337		
2026	\$ 347	\$ -	\$ 347		
2027	\$ 353	\$ -	\$ 353		
2028	\$ 353	\$ -	\$ 353		
2029	\$ 362	\$ -	\$ 362		
2030	\$ 364	\$ -	\$ 364		
2031	\$ 383	\$ -	\$ 383		
2032	\$ 391	\$ -	\$ 391		
2033	\$ 413	\$ -	\$ 413		
2034	\$ 448	\$ -	\$ 448		
2035	\$ 375	\$ -	\$ 375		
2036	\$ 465	\$ -	\$ 465		
2037	\$ 465	\$ -	\$ 465		
2038	\$ 479	\$ -	\$ 479		
2039	\$ 560	\$ -	\$ 560		
2040	\$ 534	\$ -	\$ 534		
2041	\$ 645	\$ -	\$ 645		
2042	\$ 568	\$ -	\$ 568		
2043	\$ 615	\$ -	\$ 615		
2044	\$ 697	\$ -	\$ 697		
2045	\$ 598	\$ -	\$ 598		
2046	\$ 600	\$ -	\$ 600		
2047	\$ 406	\$ -	\$ 406		

Note: Based on Individual Program Evaluation

RKTS Residential EE Kits
Program Life 15.00 Program Phase 8

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 914	\$ 1,983	-\$1,069	0.46	2.27
2022	\$ 0	\$ -	\$ 0		
2023	\$ 44	\$ 2,119	\$ (2,075)		
2024	\$ 90	\$ -	\$ 90		
2025	\$ 89	\$ -	\$ 89		
2026	\$ 90	\$ -	\$ 90		
2027	\$ 92	\$ -	\$ 92		
2028	\$ 88	\$ -	\$ 88		
2029	\$ 90	\$ -	\$ 90		
2030	\$ 97	\$ -	\$ 97		
2031	\$ 101	\$ -	\$ 101		
2032	\$ 88	\$ -	\$ 88		
2033	\$ 114	\$ -	\$ 114		
2034	\$ 160	\$ -	\$ 160		
2035	\$ 113	\$ -	\$ 113		
2036	\$ 145	\$ -	\$ 145		
2037	\$ 137	\$ -	\$ 137		
2038	\$ 84	\$ -	\$ 84		

Note: Based on Individual Program Evaluation

RTDR Residential Smart Thermostat (DR)
Program Life 10.00 Program Phase 8

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 5,215	\$ 2,047	\$3,168	2.55	5.24
2022	\$ -	\$ -	\$ -		
2023	\$ 301	\$ 1,241	\$ (941)		
2024	\$ 691	\$ 156	\$ 535		
2025	\$ 713	\$ 138	\$ 574		
2026	\$ 733	\$ 138	\$ 595		
2027	\$ 754	\$ 138	\$ 615		
2028	\$ 775	\$ 141	\$ 635		
2029	\$ 797	\$ 143	\$ 654		
2030	\$ 847	\$ 146	\$ 701		
2031	\$ 881	\$ 149	\$ 733		
2032	\$ 889	\$ 151	\$ 737		
2033	\$ 371	\$ -	\$ 371		

Note: Based on Individual Program Evaluation

SBI2 Non Residential Small Business Improvement Enhanced Program

Program Life 11.00 Program Phase 8

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 2,027	\$ 3,842	-\$1,815	0.53	1.23
2022	\$ 0	\$ -	\$ 0		
2023	\$ 123	\$ 4,105	\$ (3,983)		
2024	\$ 266	\$ -	\$ 266		
2025	\$ 262	\$ -	\$ 262		
2026	\$ 268	\$ -	\$ 268		
2027	\$ 265	\$ -	\$ 265		
2028	\$ 269	\$ -	\$ 269		
2029	\$ 279	\$ -	\$ 279		
2030	\$ 272	\$ -	\$ 272		
2031	\$ 303	\$ -	\$ 303		
2032	\$ 295	\$ -	\$ 295		
2033	\$ 308	\$ -	\$ 308		
2034	\$ 191	\$ -	\$ 191		

Note: Based on Individual Program Evaluation

CBAS Non-Res Building Automation Program
Program Life 20.00 Program Phase 9

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 3,023	\$ 918	\$2,105	3.29	4.40
2022	\$ 0	\$ -	\$ 0		
2023	\$ 93	\$ 980	\$ (888)		
2024	\$ 242	\$ -	\$ 242		
2025	\$ 236	\$ -	\$ 236		
2026	\$ 242	\$ -	\$ 242		
2027	\$ 247	\$ -	\$ 247		
2028	\$ 264	\$ -	\$ 264		
2029	\$ 257	\$ -	\$ 257		
2030	\$ 257	\$ -	\$ 257		
2031	\$ 275	\$ -	\$ 275		
2032	\$ 259	\$ -	\$ 259		
2033	\$ 279	\$ -	\$ 279		
2034	\$ 360	\$ -	\$ 360		
2035	\$ 268	\$ -	\$ 268		
2036	\$ 335	\$ -	\$ 335		
2037	\$ 369	\$ -	\$ 369		
2038	\$ 393	\$ -	\$ 393		
2039	\$ 355	\$ -	\$ 355		
2040	\$ 353	\$ -	\$ 353		
2041	\$ 520	\$ -	\$ 520		
2042	\$ 521	\$ -	\$ 521		
2043	\$ 285	\$ -	\$ 285		

Note: Based on Individual Program Evaluation

CBOT Non-Res Building Optimization

Program Life 7.00 Program Phase 9

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 1,573	\$ 1,057	\$516	1.49	2.62
2022	\$ 0	\$ -	\$ 0		
2023	\$ 111	\$ 1,130	\$ (1,019)		
2024	\$ 303	\$ -	\$ 303		
2025	\$ 287	\$ -	\$ 287		
2026	\$ 292	\$ -	\$ 292		
2027	\$ 300	\$ -	\$ 300		
2028	\$ 318	\$ -	\$ 318		
2029	\$ 323	\$ -	\$ 323		
2030	\$ 191	\$ -	\$ 191		

Note: Based on Individual Program Evaluation

CENG Non-Res Engagement Program
Program Life 7.00 Program Phase 9

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 1,326	\$ 1,509	-\$182	0.88	1.42
2022	\$ 0	\$ -	\$ 0		
2023	\$ 96	\$ 1,612	\$ (1,517)		
2024	\$ 250	\$ -	\$ 250		
2025	\$ 242	\$ -	\$ 242		
2026	\$ 247	\$ -	\$ 247		
2027	\$ 256	\$ -	\$ 256		
2028	\$ 273	\$ -	\$ 273		
2029	\$ 266	\$ -	\$ 266		
2030	\$ 161	\$ -	\$ 161		

Note: Based on Individual Program Evaluation

CNR2 Non-Residential Enhanced Prescriptive Program

Program Life 6.00 Program Phase 9

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 3,875	\$ 4,184	-\$309	0.93	2.77
2022	\$ 0	\$ -	\$ 0		
2023	\$ 380	\$ 4,471	\$ (4,091)		
2024	\$ 836	\$ -	\$ 836		
2025	\$ 828	\$ -	\$ 828		
2026	\$ 844	\$ -	\$ 844		
2027	\$ 838	\$ -	\$ 838		
2028	\$ 866	\$ -	\$ 866		
2029	\$ 443	\$ -	\$ 443		

Note: Based on Individual Program Evaluation

EAL4 Enhancement of Residential Income and Age Qualifying
Program Life 11.00 Program Phase 9

Year	2023 Pen. Benefits	2023 Pen. Costs	2023 Vintage Year C/B Scores		
	Total Benefits (000s)	Total Costs (000s)	Annual Net Benefits (000s)	UCT Ratio	TRC Ratio
NPV	\$ 361	\$ 7,496	-\$7,135	0.05	0.19
2022	\$ 0	\$ -	\$ 0		
2023	\$ 18	\$ 8,011	\$ (7,992)		
2024	\$ 41	\$ -	\$ 41		
2025	\$ 43	\$ -	\$ 43		
2026	\$ 42	\$ -	\$ 42		
2027	\$ 43	\$ -	\$ 43		
2028	\$ 62	\$ -	\$ 62		
2029	\$ 40	\$ -	\$ 40		
2030	\$ 38	\$ -	\$ 38		
2031	\$ 52	\$ -	\$ 52		
2032	\$ 37	\$ -	\$ 37		
2033	\$ 98	\$ -	\$ 98		
2034	\$ 56	\$ -	\$ 56		

Note: Based on Individual Program Evaluation

RSMH Residential Smart Home Program
Program Life 11.00 Program Phase 9

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 3,460	\$ 2,426	\$1,034	1.43	2.74
2022	\$ 0	\$ -	\$ 0		
2023	\$ 224	\$ 2,592	\$ (2,368)		
2024	\$ 448	\$ -	\$ 448		
2025	\$ 445	\$ -	\$ 445		
2026	\$ 456	\$ -	\$ 456		
2027	\$ 449	\$ -	\$ 449		
2028	\$ 475	\$ -	\$ 475		
2029	\$ 476	\$ -	\$ 476		
2030	\$ 479	\$ -	\$ 479		
2031	\$ 507	\$ -	\$ 507		
2032	\$ 497	\$ -	\$ 497		
2033	\$ 564	\$ -	\$ 564		
2034	\$ 255	\$ -	\$ 255		

Note: Based on Individual Program Evaluation

RVAU Residential Virtual Audit Program
Program Life 17.00 Program Phase 9

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 9,426	\$ 3,475	\$5,951	2.71	12.28
2022	\$ 0	\$ -	\$ 0		
2023	\$ 420	\$ 3,714	\$ (3,294)		
2024	\$ 892	\$ -	\$ 892		
2025	\$ 888	\$ -	\$ 888		
2026	\$ 907	\$ -	\$ 907		
2027	\$ 902	\$ -	\$ 902		
2028	\$ 930	\$ -	\$ 930		
2029	\$ 950	\$ -	\$ 950		
2030	\$ 949	\$ -	\$ 949		
2031	\$ 991	\$ -	\$ 991		
2032	\$ 1,001	\$ -	\$ 1,001		
2033	\$ 1,086	\$ -	\$ 1,086		
2034	\$ 1,077	\$ -	\$ 1,077		
2035	\$ 1,052	\$ -	\$ 1,052		
2036	\$ 1,119	\$ -	\$ 1,119		
2037	\$ 1,143	\$ -	\$ 1,143		
2038	\$ 1,186	\$ -	\$ 1,186		
2039	\$ 1,296	\$ -	\$ 1,296		
2040	\$ 640	\$ -	\$ 640		

Note: Based on Individual Program Evaluation

RWDR Residential Water Savings (DR) Program

Program Life 12.00 Program Phase 9

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 423	\$ 336	\$87	1.26	1.59
2022	\$ -	\$ -	\$ -		
2023	\$ 21	\$ 359	\$ (338)		
2024	\$ 49	\$ -	\$ 49		
2025	\$ 50	\$ -	\$ 50		
2026	\$ 52	\$ -	\$ 52		
2027	\$ 53	\$ -	\$ 53		
2028	\$ 55	\$ -	\$ 55		
2029	\$ 56	\$ -	\$ 56		
2030	\$ 58	\$ -	\$ 58		
2031	\$ 59	\$ -	\$ 59		
2032	\$ 61	\$ -	\$ 61		
2033	\$ 63	\$ -	\$ 63		
2034	\$ 64	\$ -	\$ 64		
2035	\$ 28	\$ -	\$ 28		

Note: Based on Individual Program Evaluation

RWEE Residential Water Savings (EE) Program
Program Life 12.00 Program Phase 9

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 2,460	\$ 1,133	\$1,327	2.17	5.83
2022	\$ 0	\$ -	\$ 0		
2023	\$ 145	\$ 1,211	\$ (1,066)		
2024	\$ 291	\$ -	\$ 291		
2025	\$ 292	\$ -	\$ 292		
2026	\$ 296	\$ -	\$ 296		
2027	\$ 294	\$ -	\$ 294		
2028	\$ 320	\$ -	\$ 320		
2029	\$ 323	\$ -	\$ 323		
2030	\$ 327	\$ -	\$ 327		
2031	\$ 343	\$ -	\$ 343		
2032	\$ 329	\$ -	\$ 329		
2033	\$ 382	\$ -	\$ 382		
2034	\$ 384	\$ -	\$ 384		
2035	\$ 162	\$ -	\$ 162		

Note: Based on Individual Program Evaluation

RTEE RTEB Residential Smart Thermostat (EE & Behavioral Portfolio)

Program Life 10.00

Program Phase 8

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 3,707	\$ 1,377	\$2,330	2.69	3.60
2022	\$ 0	\$ -	\$ 0		
2023	\$ 126	\$ 1,472	\$ (1,346)		
2024	\$ 535	\$ -	\$ 535		
2025	\$ 514	\$ -	\$ 514		
2026	\$ 530	\$ -	\$ 530		
2027	\$ 535	\$ -	\$ 535		
2028	\$ 549	\$ -	\$ 549		
2029	\$ 578	\$ -	\$ 578		
2030	\$ 563	\$ -	\$ 563		
2031	\$ 574	\$ -	\$ 574		
2032	\$ 599	\$ -	\$ 599		
2033	\$ 459	\$ -	\$ 459		

Note: Based on RTEE/RTEB Portfolio Evaluation

PORT DSM Portfolio

Year	2023 Pen. Benefits	2023 Pen. Costs	Annual Net Benefits (000s)	2023 Vintage Year C/B Scores	
	Total Benefits (000s)	Total Costs (000s)		UCT Ratio	TRC Ratio
NPV	\$ 131,188	\$ 65,246	\$65,943	2.01	3.67
2022	\$ 1	\$ -	\$ 1		
2023	\$ 5,844	\$ 68,776	\$ (62,931)		
2024	\$ 14,324	\$ 156	\$ 14,168		
2025	\$ 14,172	\$ 138	\$ 14,034		
2026	\$ 14,541	\$ 138	\$ 14,402		
2027	\$ 14,361	\$ 138	\$ 14,223		
2028	\$ 14,718	\$ 141	\$ 14,578		
2029	\$ 14,607	\$ 143	\$ 14,464		
2030	\$ 14,323	\$ 146	\$ 14,178		
2031	\$ 14,103	\$ 149	\$ 13,954		
2032	\$ 14,409	\$ 151	\$ 14,257		
2033	\$ 14,177	\$ -	\$ 14,177		
2034	\$ 12,868	\$ -	\$ 12,868		
2035	\$ 11,237	\$ -	\$ 11,237		
2036	\$ 9,831	\$ -	\$ 9,831		
2037	\$ 10,065	\$ -	\$ 10,065		
2038	\$ 9,536	\$ -	\$ 9,536		
2039	\$ 7,825	\$ -	\$ 7,825		
2040	\$ 7,743	\$ -	\$ 7,743		
2041	\$ 7,672	\$ -	\$ 7,672		
2042	\$ 5,027	\$ -	\$ 5,027		
2043	\$ 1,090	\$ -	\$ 1,090		
2044	\$ 697	\$ -	\$ 697		
2045	\$ 598	\$ -	\$ 598		
2046	\$ 600	\$ -	\$ 600		
2047	\$ 406	\$ -	\$ 406		

Note: Based on Full DSM Portfolio Evaluation

2021 Integrated Resource Plan Forecasted Energy Savings (MWh) (System-Level at the Generator)

Phase	Acronym	Programs	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
1	AC01	Air Conditioner Cycling Program	-	-	-	-	-	-	-	-	-	-
7	CHV3	Non-Residential Heating and Cooling Efficiency Program	22,825	27,849	28,589	28,665	28,926	29,182	29,543	29,663	29,890	30,111
7	CSW2	Non-Residential Window Film Program	5,198	6,149	6,284	6,333	6,391	6,447	6,508	6,553	6,603	6,652
7	CTSM	Non-Residential Small Manufacturing Program	8,582	10,277	10,533	10,596	10,692	10,787	10,841	10,964	11,048	11,129
7	CTSO	Non-Residential Office Program	12,971	15,770	16,177	16,238	16,386	16,531	16,698	16,804	16,932	17,057
7	RAR2	Residential Appliance Recycling Program (v2)	16,221	19,217	19,641	19,819	20,038	20,368	20,713	20,855	21,036	21,211
7	REEC	Residential Efficient Products Marketplace Program	220,031	313,268	363,139	368,390	372,627	376,741	381,698	384,344	387,851	391,247
7	RTHO	Home Energy Assessment	29,905	36,084	36,890	37,200	37,628	38,044	38,581	38,813	39,167	39,510
8	CNCR	Non-Residential New Construction	2,443	6,424	13,024	20,713	24,292	24,506	24,708	24,909	25,099	25,284
8	RHRF	Residential Home Retrofit	4,136	8,799	14,520	20,637	23,480	23,739	24,029	24,217	24,438	24,652
8	RKTS	Residential EE Kits	12,878	21,219	29,632	37,901	46,242	54,582	63,087	71,264	79,605	87,946
8	RTDR	Residential Smart Thermostat Management Program (DR)	-	-	-	-	-	-	-	-	-	-
8	RTEB	Residential Smart Thermostat Program (Behavioral)	7,710	10,396	12,762	13,788	13,947	14,101	14,296	14,386	14,517	14,644
8	RTEE	Residential Smart Thermostat (EE)	3,947	6,032	8,363	9,633	9,744	9,852	9,999	10,051	10,143	10,232
8	SBI2	Non Residential Small Business Improvement Enhanced Program	16,087	26,395	36,862	47,136	51,954	52,412	52,821	53,274	53,680	54,076
9	CBAS	Non-Res Building Automation Program	2,400	7,129	11,913	16,587	21,317	23,753	23,993	24,145	24,329	24,509
9	CBOT	Non-Res Building Optimization	2,926	8,692	14,524	20,223	25,991	28,961	29,254	29,439	29,664	29,883
9	CENG	Non-Res Engagement Program	2,484	7,379	12,331	17,170	22,066	24,588	24,836	24,993	25,184	25,370
9	CNR2	Non-Residential Enhanced Prescriptive Program	9,377	26,409	43,583	60,548	77,607	85,682	86,509	87,092	87,756	88,405
9	EAL4	Enhancement of Residential Income and Age Qualifying	290	874	1,459	2,042	2,626	2,933	2,966	2,991	3,018	3,045
9	RSMH	Residential Smart Home Program	3,631	11,848	23,351	37,966	55,830	67,807	76,064	87,474	102,129	119,994
9	RVAU	Residential Virtual Audit Program	10,383	27,434	42,403	55,573	68,132	74,165	74,869	75,580	76,249	76,902
9	RWDR	Residential Water Savings (DR) Program	-	-	-	-	-	-	-	-	-	-
9	RWEE	Residential Water Savings (EE) Program	1,295	4,889	11,596	22,738	38,969	48,334	51,943	58,616	69,771	86,001

2020 Integrated Resource Plan Forecasted Energy Savings (MWh) (System-Level at the Generator)

Phase	Acronym	Program	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	AC01	Air Conditioner Cycling Program	0	0	0	0	0	0	0	0	0
7	CHV3	Non-Residential Heating and Cooling Efficiency Program	27,395	36,546	41,366	41,747	42,124	42,497	42,858	43,211	43,556
7	CLT3	Non-Residential Lighting Systems & Controls Program	31,857	39,307	42,880	43,275	43,666	44,051	44,425	44,790	45,148
6	CNRP	Non-Residential Prescriptive Program	19,713	20,011	20,316	20,537	20,688	20,837	20,982	21,123	21,261
7	CSW2	Non-Residential Window Film Program	5,761	7,626	8,454	8,532	8,609	8,685	8,759	8,830	8,901
7	CTSM	Non-Residential Small Manufacturing Program	10,270	13,645	15,262	15,402	15,542	15,679	15,812	15,941	16,069
7	CTSO	Non-Residential Office Program	15,562	20,737	23,397	23,613	23,827	24,037	24,241	24,440	24,636
4	EAL3	Income and Age Qualifying Home Improvement Program	13,210	14,695	16,180	16,942	17,043	17,142	17,237	17,329	17,383
7	RAR2	Residential Appliance Recycling Program	19,304	25,346	28,216	28,535	28,851	28,915	29,456	29,743	30,023
7	REEC	Residential Efficient Products Marketplace Program	290,431	383,696	430,667	435,634	440,548	445,355	449,977	454,442	458,799
7	RTHO	Residential Home Energy Assessment Program	35,892	49,014	55,565	56,206	56,840	57,461	58,058	58,634	59,197
5	SBIP	Small Business Improvement Program	85,739	87,433	89,165	90,216	90,659	91,094	91,517	91,929	92,304

Difference in Forecasted Energy Savings (MWh) (System-Level at the Generator)

Phase	Acronym	Program	2022	2024	2025	2026	2027	2028	2029	2030	2031
1	AC01	Air Conditioner Cycling Program	-	-	-	-	-	0	-	-	-
7	CHV3	Non-Residential Heating and Cooling Efficiency Program	(8,697)	(12,777)	(13,082)	(13,198)	(13,315)	(13,316)	(13,547)	(13,666)	30,111
7	CSW2	Non-Residential Window Film Program	(1,477)	(2,171)	(2,199)	(2,218)	(2,238)	(2,250)	(2,277)	(2,298)	6,652
7	CTSM	Non-Residential Small Manufacturing Program	(3,368)	(4,729)	(4,806)	(4,849)	(4,892)	(4,971)	(4,977)	(5,021)	11,129
7	CTSO	Non-Residential Office Program	(4,967)	(7,220)	(7,374)	(7,440)	(7,506)	(7,543)	(7,636)	(7,704)	17,057
7	RAR2	Residential Appliance Recycling Program (v2)	(6,128)	(8,576)	(8,716)	(8,813)	(8,547)	(8,744)	(8,888)	(8,987)	21,211
7	REEC	Residential Efficient Products Marketplace Program	(70,428)	(67,527)	(67,244)	(67,921)	(68,614)	(68,279)	(70,097)	(70,948)	391,247
7	RTHO	Home Energy Assessment	(12,930)	(18,675)	(19,006)	(19,212)	(19,417)	(19,477)	(19,822)	(20,030)	39,510
8	CNCR	Non-Residential New Construction	6,424	13,024	20,713	24,292	24,506	24,708	24,909	25,099	25,284
8	RHRF	Residential Home Retrofit	8,799	14,520	20,637	23,480	23,739	24,029	24,217	24,438	24,652
8	RKTS	Residential EE Kits	21,219	29,632	37,901	46,242	54,582	63,087	71,264	79,605	87,946
8	RTDR	Residential Smart Thermostat Management Program (DR)	-	-	-	-	-	-	-	-	-
8	RTEB	Residential Smart Thermostat Program (Behavioral)	10,396	12,762	13,788	13,947	14,101	14,296	14,386	14,517	14,644
8	RTEE	Residential Smart Thermostat (EE)	6,032	8,363	9,633	9,744	9,852	9,999	10,051	10,143	10,232
8	SBI2	Non Residential Small Business Improvement Enhanced Program	26,395	36,862	47,136	51,954	52,412	52,821	53,274	53,680	54,076
9	CBAS	Non-Res Building Automation Program	7,129	11,913	16,587	21,317	23,753	23,993	24,145	24,329	24,509
9	CBOT	Non-Res Building Optimization	8,692	14,524	20,223	25,991	28,961	29,254	29,439	29,664	29,883
9	CENG	Non-Res Engagement Program	7,379	12,331	17,170	22,066	24,588	24,836	24,993	25,184	25,370
9	CNR2	Non-Residential Enhanced Prescriptive Program	26,409	43,583	60,548	77,607	85,682	86,509	87,092	87,756	88,405
9	EAL4	Enhancement of Residential Income and Age Qualifying	874	1,459	2,042	2,626	2,933	2,966	2,991	3,018	3,045
9	RSMH	Residential Smart Home Program	11,848	23,351	37,966	55,830	67,807	76,064	87,474	102,129	119,994
9	RVAU	Residential Virtual Audit Program	27,434	42,403	55,573	68,132	74,165	74,869	75,580	76,249	76,902
9	RWDR	Residential Water Savings (DR) Program	-	-	-	-	-	-	-	-	-
9	RWEE	Residential Water Savings (EE) Program	4,889	11,596	22,738	38,969	48,334	51,943	58,616	69,771	86,001

2021 Integrated Resource Plan Forecasted Summer Coincident Capacity Savings (kW) (System-Level at the Generator)

Phase	Acronym	Programs	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
1	AC01	Air Conditioner Cycling Program	-	-	-	-	-	-	-	-	-	-
7	CHVC3	Non-Residential Heating and Cooling Efficiency Program	11,958	17,263	17,750	20,473	15,504	13,041	18,402	18,553	18,697	21,523
7	CSWF2	Non-Residential Window Film Program	819	60	62	1,335	1,453	1,192	1,261	64	(164)	1,404
7	CTSM	Non-Residential Small Manufacturing Program	1,482	2,140	2,197	2,218	2,238	2,258	2,278	2,297	2,314	2,332
7	CTSO	Non-Residential Office Program	3,712	7,726	7,956	5,906	5,770	6,099	5,721	8,316	8,438	6,209
7	RAR2	Residential Appliance Recycling Program (v2)	1,176	1,666	1,713	1,737	1,748	1,764	1,808	1,825	1,841	1,861
7	REEC	Residential Efficient Products Marketplace Program	2,280	3,418	4,558	4,663	4,717	4,770	4,822	4,870	4,915	4,959
7	RTHO	Home Energy Assessment	(18,958)	8,985	9,224	24,352	(4,799)	(23,158)	(27,320)	9,750	5,807	25,900
8	CNCR	Non-Residential New Construction	239	872	2,031	3,204	4,464	4,501	4,744	5,370	5,662	4,721
8	RHRF	Residential Home Retrofit	176	196	357	1,397	1,892	1,794	1,928	744	1,562	1,937
8	RKTS	Residential EE Kits	791	1,511	2,236	2,982	3,714	4,442	5,174	5,862	6,625	7,364
8	RTDR	Residential Smart Thermostat (DR)	3,049	8,355	16,995	30,492	40,697	41,198	41,670	42,119	42,549	42,965
8	RTEB	Residential Smart Thermostat Program (Behavioral)	1,094	1,559	1,992	2,373	2,401	2,428	2,395	2,419	2,441	2,524
8	RTEE	Residential Smart Thermostat (EE)	705	1,167	1,659	2,234	2,260	2,285	2,252	2,275	2,296	2,375
8	SBI2	Non Residential Small Business Improvement Enhanced Program	1,664	1,634	2,419	5,870	7,875	7,140	7,820	4,027	3,013	7,492
9	CBAS	Non-Res Building Automation Program	136	2,544	4,892	5,325	6,827	8,764	8,221	11,949	12,125	8,921
9	CBOT	Non-Res Building Optimization	166	3,102	5,965	6,492	8,324	10,685	10,023	14,569	14,783	10,877
9	CENG	Non-Res Engagement Program	141	2,633	5,064	5,512	7,067	9,072	8,510	12,369	12,551	9,235
9	CNR2	Non-Residential Enhanced Prescriptive Program	177	1,935	3,720	6,154	8,553	10,133	10,713	9,086	8,268	10,310
9	EAL4	Enhancement of Residential Income and Age Qualifying	26	302	297	251	430	623	630	1,421	1,178	423
9	RSMH	Residential Smart Home Program	62	535	1,268	3,093	5,228	6,820	8,244	6,024	6,108	11,333
9	RVAU	Residential Electric Vehicle (DR)	3,049	8,355	16,995	30,492	40,697	41,198	41,670	42,119	42,549	42,965
9	RWDR	Residential Water Savings (DR) Program (Honeywell)	202	749	1,770	3,487	5,991	7,216	7,291	7,361	7,428	7,493
9	RWEE	Residential Water Savings (EE) Program	14	188	533	1,168	2,289	3,376	3,589	3,825	4,546	5,516

2020 Integrated Resource Plan Forecasted Winter Coincident Capacity Savings (kW) (System-Level at the Generator)

Phase	Acronym	Programs	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	AC01	Air Conditioner Cycling Program	53,826	53,826	53,826	53,826	53,826	53,826	53,826	53,826	53,826
4	EAL3	Income and Age Qualifying Home Improvement Program	1,259	1,397	1,535	1,598	1,608	1,617	1,626	1,634	1,638
5	SBIP	Small Business Improvement Program	15,513	15,820	16,135	16,314	16,394	16,473	16,549	16,624	16,692
6	CNRP	Non-Residential Prescriptive Program	7,742	7,859	7,979	8,064	8,123	8,182	8,238	8,294	8,348
7	CHVC3	Non-Residential Heating and Cooling Efficiency Program	5,805	7,688	8,518	8,597	8,674	8,751	8,825	8,897	8,968
7	CLT3	Non-Residential Lighting Systems & Controls Program	6,448	7,945	8,615	8,694	8,772	8,850	8,925	8,998	9,070
7	CSWF2	Non-Residential Window Film Program	1,402	1,855	2,054	2,073	2,092	2,111	2,128	2,146	2,163
7	CTSM	Non-Residential Small Manufacturing Program	2,148	2,845	3,152	3,181	3,210	3,238	3,266	3,292	3,319
7	CTSO	Non-Residential Office Program	1,294	1,713	1,898	1,916	1,933	1,950	1,966	1,983	1,998
7	RAR2	Residential Appliance Recycling Program	2,959	3,877	4,287	4,336	4,384	4,396	4,476	4,519	4,562
7	REEC	Residential Efficient Products Marketplace Program	3,740	4,931	5,483	5,546	5,608	5,669	5,728	5,785	5,840
7	RTHO	Residential Home Energy Assessment Program	9,388	13,174	14,721	14,891	15,059	15,223	15,380	15,533	15,681

Forecasted Coincident Capacity Savings Difference (kW) (System-Level at the Generator)

Phase	Acronym	Programs	2022	2023	2024	2025	2026	2027	2028	2029	2030
1	AC01	Air Conditioner Cycling Program	(53,826)	(53,826)	(53,826)	(53,826)	(53,826)	(53,826)	(53,826)	(53,826)	(53,826)
7	CHVC3	Non-Residential Heating and Cooling Efficiency Program	6,153	9,575	9,232	11,877	6,829	4,290	9,577	9,656	9,728
7	CSWF2	Non-Residential Window Film Program	(582)	(1,795)	(1,993)	(738)	(640)	(918)	(867)	(2,081)	(2,327)
7	CTSM	Non-Residential Small Manufacturing Program	(666)	(705)	(955)	(963)	(971)	(980)	(988)	(996)	(1,004)
7	CTSO	Non-Residential Office Program	2,418	6,013	6,058	3,990	3,837	4,149	3,755	6,333	6,440
7	RAR2	Residential Appliance Recycling Program (v2)	(1,783)	(2,210)	(2,575)	(2,599)	(2,636)	(2,632)	(2,668)	(2,694)	(2,721)
7	REEC	Residential Efficient Products Marketplace Program	(1,461)	(1,513)	(924)	(883)	(891)	(899)	(906)	(915)	(925)
7	RTHO	Home Energy Assessment	(28,346)	(4,190)	(5,497)	9,462	(19,857)	(38,381)	(42,701)	(5,783)	(9,874)
8	CNCR	Non-Residential New Construction	239	872	2,031	3,204	4,464	4,501	4,744	5,370	5,662
8	RHRF	Residential Home Retrofit	176	196	357	1,397	1,892	1,794	1,928	744	1,562
8	RKTS	Residential EE Kits	791	1,511	2,236	2,982	3,714	4,442	5,174	5,862	6,625
8	RTDR	Residential Smart Thermostat (DR)	3,049	8,355	16,995	30,492	40,697	41,198	41,670	42,119	42,549
8	RTEB	Residential Smart Thermostat Program (Behavioral)	1,094	1,559	1,992	2,373	2,401	2,428	2,395	2,419	2,441
8	RTEE	Residential Smart Thermostat (EE)	705	1,167	1,659	2,234	2,260	2,285	2,252	2,275	2,296
8	SBI2	Non Residential Small Business Improvement Enhanced Program	1,664	1,634	2,419	5,870	7,875	7,140	7,820	4,027	3,013
9	CBAS	Non-Res Building Automation Program	136	2,544	4,892	5,325	6,827	8,764	8,221	11,949	12,125
9	CBOT	Non-Res Building Optimization	166	3,102	5,965	6,492	8,324	10,685	10,023	14,569	14,783
9	CENG	Non-Res Engagement Program	141	2,633	5,064	5,512	7,067	9,072	8,510	12,369	12,551
9	CNR2	Non-Residential Enhanced Prescriptive Program	177	1,935	3,720	6,154	8,553	10,133	10,713	9,086	8,268
9	EAL4	Enhancement of Residential Income and Age Qualifying	26	302	297	251	430	623	630	1,421	1,178
9	RSMH	Residential Smart Home Program	62	535	1,268	3,093	5,228	6,820	8,244	6,024	6,108
9	RVAU	Residential Electric Vehicle (DR)	3,049	8,355	16,995	30,492	40,697	41,198	41,670	42,119	42,549
9	RWDR	Residential Water Savings (DR) Program (Honeywell)	202	749	1,770	3,487	5,991	7,216	7,291	7,361	7,428
9	RWEE	Residential Water Savings (EE) Program	14	188	533	1,168	2,289	3,376	3,589	3,825	4,546

Notes: Difference in values are the 2021 Integrated Resource Plan Capacity Savings less the 2020 Integrated Resource Plan Update Capacity Savings

CHV3: Non Residential HVAC				
	Participant	Utility	TRC	RIM
Total Benefits	\$79,759	\$72,650	\$72,650	\$72,650
Total Cost	\$14,543	\$7,443	\$16,889	\$79,454
Net Benefit	\$65,216	\$65,207	\$55,760	-\$6,804
Benefit Cost Ratio	5.48	9.76	4.30	0.91
CSW2: Non Residential Window Film				
	Participant	Utility	TRC	RIM
Total Benefits	\$2,096	\$853	\$853	\$853
Total Cost	\$1,426	\$2,243	\$3,117	\$3,721
Net Benefit	\$670	-\$1,390	-\$2,265	-\$2,869
Benefit Cost Ratio	1.47	0.38	0.27	0.23
CTSM: Non Residential Small Manufacturing				
	Participant	Utility	TRC	RIM
Total Benefits	\$25,955	\$11,269	\$11,269	\$11,269
Total Cost	\$3,960	\$5,962	\$6,709	\$27,846
Net Benefit	\$21,995	\$5,307	\$4,560	-\$16,577
Benefit Cost Ratio	6.55	1.89	1.68	0.40
CTSO: Non Residential Small Office				
	Participant	Utility	TRC	RIM
Total Benefits	\$15,215	\$2,693	\$2,693	\$2,693
Total Cost	\$5,665	\$12,328	\$12,224	\$21,273
Net Benefit	\$9,550	-\$9,635	-\$9,531	-\$18,579
Benefit Cost Ratio	2.69	0.22	0.22	0.13
RAR2: Residential Appliance Recycling				
	Participant	Utility	TRC	RIM
Total Benefits	\$35,679	\$8,097	\$8,097	\$8,097
Total Cost	\$2,431	\$11,639	\$12,875	\$44,915
Net Benefit	\$33,249	-\$3,541	-\$4,778	-\$36,818
Benefit Cost Ratio	14.68	0.70	0.63	0.18

Note: Based on Individual Program Evaluation

REE2: Residential Efficient Products				
	Participant	Utility	TRC	RIM
Total Benefits	\$1,060,550	\$225,005	\$225,005	\$225,005
Total Cost	\$28,194	\$44,818	\$39,906	\$1,037,828
Net Benefit	\$1,032,356	\$180,187	\$185,099	-\$812,823
Benefit Cost Ratio	37.62	5.02	5.64	0.22
RTHO: Residential Home Energy Assessment Program				
	Participant	Utility	TRC	RIM
Total Benefits	\$397,360	\$88,453	\$88,453	\$88,453
Total Cost	\$20,966	\$25,448	\$32,250	\$395,261
Net Benefit	\$376,394	\$63,005	\$56,203	-\$306,809
Benefit Cost Ratio	18.95	3.48	2.74	0.22
CNCR: Non Residential New Construction				
	Participant	Utility	TRC	RIM
Total Benefits	\$41,692	\$19,358	\$19,358	\$19,358
Total Cost	\$13,846	\$18,260	\$19,833	\$46,322
Net Benefit	\$27,845	\$1,099	-\$475	-\$26,963
Benefit Cost Ratio	3.01	1.06	0.98	0.42
RHRF: Residential Home Retrofit				
	Participant	Utility	TRC	RIM
Total Benefits	\$47,781	\$20,987	\$20,987	\$20,987
Total Cost	\$8,603	\$11,247	\$14,794	\$52,345
Net Benefit	\$39,178	\$9,740	\$6,193	-\$31,358
Benefit Cost Ratio	5.55	1.87	1.42	0.40
RKTS: Residential EE Kits				
	Participant	Utility	TRC	RIM
Total Benefits	\$40,992	\$6,818	\$6,818	\$6,818
Total Cost	\$252	\$13,445	\$2,798	\$42,238
Net Benefit	\$40,740	-\$6,628	\$4,019	-\$35,421
Benefit Cost Ratio	162.71	0.51	2.44	0.16

Note: Based on Individual Program Evaluation

RTDR: Residential Smart Thermostat DR				
	Participant	Utility	TRC	RIM
Total Benefits	\$10,541	\$45,347	\$45,347	\$45,347
Total Cost	\$170	\$30,552	\$20,519	\$30,552
Net Benefit	\$10,372	\$14,795	\$24,828	\$14,795
Benefit Cost Ratio	62.08	1.48	2.21	1.48
SBI2: Small Business Improvement Program				
	Participant	Utility	TRC	RIM
Total Benefits	\$49,441	\$17,012	\$17,012	\$17,012
Total Cost	\$29,942	\$31,481	\$43,204	\$61,108
Net Benefit	\$19,499	-\$14,469	-\$26,192	-\$44,096
Benefit Cost Ratio	1.65	0.54	0.39	0.28
CBAS: Non Residential Building Automation System				
	Participant	Utility	TRC	RIM
Total Benefits	\$27,830	\$16,569	\$16,569	\$16,569
Total Cost	\$3,135	\$6,457	\$7,993	\$31,697
Net Benefit	\$24,695	\$10,111	\$8,576	-\$15,128
Benefit Cost Ratio	8.88	2.57	2.07	0.52
CBOT: Non Residential Building Optimization				
	Participant	Utility	TRC	RIM
Total Benefits	\$37,902	\$20,140	\$20,140	\$20,140
Total Cost	\$7,844	\$13,559	\$15,616	\$44,332
Net Benefit	\$30,058	\$6,581	\$4,525	-\$24,192
Benefit Cost Ratio	4.83	1.49	1.29	0.45
CENG: Non Residential Engagement				
	Participant	Utility	TRC	RIM
Total Benefits	\$34,720	\$17,184	\$17,184	\$17,184
Total Cost	\$1	\$19,340	\$12,011	\$45,514
Net Benefit	\$34,719	-\$2,155	\$5,173	-\$28,330
Benefit Cost Ratio	51,019.41	0.89	1.43	0.38

Note: Based on Individual Program Evaluation

CNR2: Non Residential Prescriptive				
	Participant	Utility	TRC	RIM
Total Benefits	\$145,396	\$56,651	\$56,651	\$56,651
Total Cost	\$42,345	\$59,269	\$62,237	\$160,251
Net Benefit	\$103,051	-\$2,618	-\$5,586	-\$103,600
Benefit Cost Ratio	3.43	0.96	0.91	0.35
EAL4: Income and Age Qualifying Program				
	Participant	Utility	TRC	RIM
Total Benefits	\$60,339	\$2,980	\$2,980	\$2,980
Total Cost	\$0	\$71,231	\$18,507	\$77,097
Net Benefit	\$60,339	-\$68,251	-\$15,527	-\$74,117
Benefit Cost Ratio	0.00	0.04	0.16	0.04
RSMH: Residential Smart Home				
	Participant	Utility	TRC	RIM
Total Benefits	\$141,029	\$40,580	\$40,580	\$40,580
Total Cost	\$32,048	\$24,256	\$42,261	\$146,077
Net Benefit	\$108,981	\$16,324	-\$1,681	-\$105,497
Benefit Cost Ratio	4.40	1.67	0.96	0.28
RVAU: Residential Virtual Audit				
	Participant	Utility	TRC	RIM
Total Benefits	\$203,960	\$58,885	\$58,885	\$58,885
Total Cost	\$6,524	\$23,781	\$12,414	\$202,739
Net Benefit	\$197,436	\$35,105	\$46,471	-\$143,854
Benefit Cost Ratio	31.27	2.48	4.74	0.29
RWDR: Residential Water Savings DR				
	Participant	Utility	TRC	RIM
Total Benefits	\$1,172	\$7,026	\$7,026	\$7,026
Total Cost	\$3,368	\$2,963	\$5,193	\$2,967
Net Benefit	-\$2,196	\$4,062	\$1,832	\$4,059
Benefit Cost Ratio	0.35	2.37	1.35	2.37

Note: Based on Individual Program Evaluation

RWEE: Residential Water Savings EE				
	Participant	Utility	TRC	RIM
Total Benefits	\$90,206	\$39,229	\$39,229	\$39,229
Total Cost	\$15,192	\$15,074	\$18,521	\$90,230
Net Benefit	\$75,014	\$24,155	\$20,707	-\$51,001
Benefit Cost Ratio	5.94	2.60	2.12	0.43
RTEE PORT: Residential Thermostat EE & Behavioral				
	Participant	Utility	TRC	RIM
Total Benefits	\$97,860	\$42,897	\$42,897	\$42,897
Total Cost	\$974	\$14,658	\$11,706	\$104,991
Net Benefit	\$96,887	\$28,238	\$31,191	-\$62,094
Benefit Cost Ratio	100.52	2.93	3.66	0.41
Portfolio				
	Participant	Utility	TRC	RIM
Total Benefits	\$2,647,474	\$806,836	\$806,836	\$806,836
Total Cost	\$241,427	\$495,714	\$461,839	\$2,779,017
Net Benefit	\$2,406,047	\$311,122	\$344,997	-\$1,972,181
Benefit Cost Ratio	10.97	1.63	1.75	0.29

Note: Based on Individual Program Evaluation

CONFIDENTIAL INFORMATION REDACTED

Phase	Acronym	Description	Actual NC EM&V Costs During Rate Period (12 Months Ended Dec 2021)
1	AC01	Air Conditioner Cycling Program	
3	CLT2	Non-Residential Lighting Systems & Controls Program	
4	EAL3	Income and Age Qualifying Home Improvement Program	
5	SBIP	Small Business Improvement Program	
6	CNRP	Non-Residential Prescriptive Program	
7	RAR2	Residential Appliance Recycling Program (v2)	
7	REE2	Residential Efficient Products Marketplace Program (ClearResult)	
7	RTHO	Home Energy Assessment	
7	CLT3	Non-Residential Lighting Systems & Controls Program	
7	CHV3	Non-Residential Heating and Cooling Efficiency Program	
7	CSW2	Non-Residential Window Film Program	
7	CTSM	Non-Residential Small Manufacturing Program	
7	CTSO	Non-Residential Office Program	
8	RKTS	Residential EE Kits	
8	RTDR	Residential Smart Thermostat Management Program (DR)	
8	RTEE	Residential Smart Thermostat (EE)	
8	RHRF	Residential Home Retrofit	
8	CNCR	Non-Residential New Construction	
8	SBI2	Non Residential Small Business Improvement Enhanced Program	
Total \$			

CONFIDENTIAL INFORMATION REDACTED

Phase	Acronym	Description	Projected NC EM&V Costs During 2023
1	AC01	Air Conditioner Cycling Program	
6	CNRP	Non-Residential Prescriptive Program	
7	CHV3	Non-Residential Heating and Cooling Efficiency Program	
7	CLT3	Non-Residential Lighting Systems & Controls Program	
7	CSW2	Non-Residential Window Film Program	
7	CTSM	Non-Residential Small Manufacturing Program	
7	CTSO	Non-Residential Office Program	
7	RAR2	Residential Appliance Recycling Program (v2)	
7	REE2	Residential Efficient Products Marketplace Program (ClearResult)	
7	RTHO	Home Energy Assessment	
8	CNCR	Non-Residential New Construction	
8	RHRF	Residential Home Retrofit	
8	RKTS	Residential EE Kits	
8	RTDR	Residential Smart Thermostat Management Program (DR)	
8	RTEE	Residential Smart Thermostat (EE)	
8	SBI2	Non Residential Small Business Improvement Enhanced Program	
9	CBAS	Non-Res Building Automation Program (Honeywell)	
9	CBOT	Non-Res Building Optimization (Honeywell)	
9	CENG	Non-Res Engagement Program (Honeywell)	
9	CNR2	Non-Residential Enhanced Prescriptive Program (Honeywell)	
9	EAL4	Enhancement of Residential Income and Age Qualifying (Nexant)	
9	RSMH	Residential Smart Home Program (Honeywell)	
9	RVAU	Residential Virtual Audit Program (Honeywell)	
9	RWDR	Residential Water Savings (DR) Program (Honeywell)	
9	RWEE	Residential Water Savings (EE) Program (Honeywell)	

Total \$ [REDACTED]

NC GENERAL RATE CASE; DOCKET E-22, SUB 604

Phase III EE Programs: Net Energy Savings (kWh) (Cumulative by Month)	Rate Code	Rate Schedule	2021 Percentage	2021												2021 Total
				1 Jan.	2 Feb.	3 Mar.	4 Apr.	5 May	6 Jun.	7 Jul.	8 Aug.	9 Sep.	10 Oct.	11 Nov.	12 Dec.	
Non-Residential Heating and Cooling Efficiency:																
	168	Schedule 5	49.4%	623	623	623	623	623	623	623	623	623	623	623	623	7,476
	170	Schedule 5P	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
	183	Schedule 10 (Variable Pricing)	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
	184	Schedule 30	50.6%	639	639	639	639	639	639	639	639	639	639	639	639	7,668
	188	Schedule 42	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential Heating and Cooling Efficiency Sub-Total:				100.0%	1,262	1,262	1,262	1,262	1,262	1,262	1,262	1,262	1,262	1,262	1,262	15,144
Non-Residential Lighting Systems and Controls:																
	168	Schedule 5	75.4%	53,177	53,177	53,177	53,177	53,177	53,177	53,177	53,177	53,177	53,177	53,177	53,177	638,124
	169	Schedule 5C	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
	170	Schedule 5P	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
	176	Schedule 6P	10.8%	7,603	7,603	7,603	7,603	7,603	7,603	7,603	7,603	7,603	7,603	7,603	7,603	91,236
	183	Schedule 10 (Variable Pricing)	10.8%	7,643	7,643	7,643	7,643	7,643	7,643	7,643	7,643	7,643	7,643	7,643	7,643	91,716
	184	Schedule 30	0.6%	446	446	446	446	446	446	446	446	446	446	446	446	5,352
	188	Schedule 42	2.4%	1,683	1,683	1,683	1,683	1,683	1,683	1,683	1,683	1,683	1,683	1,683	1,683	20,196
	195	Schedule 26	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential Lighting Systems and Controls Sub-Total:				100.0%	70,552	70,552	70,552	70,552	70,552	70,552	70,552	70,552	70,552	70,552	70,552	846,624
Non-Residential Window Film																
	168	Schedule 5	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential Window Film Sub-Total:				0.0%	-	-	-	-	-	-	-	-	-	-	-	-
Total:					71,814	71,814	71,814	71,814	71,814	71,814	71,814	71,814	71,814	71,814	71,814	861,768

NOTES:

1. Net energy savings (kWh) are based on Dominion Energy's planning attribution assumptions applied to DNV's deemed energy savings estimates from actual program participants.
2. 2021 Total Energy savings (kWh) are inclusive of EE measures installed on, or after, July 1, 2019 through December 31, 2021 that are accumulated and realized between January 1, 2021 through December 31, 2021.

NC GENERAL RATE CASE; DOCKET E-22, SUB 604

Phase IV EE Programs: Net Energy Savings (kWh) (Cumulative by Month)	Rate Code	Rate Schedule	2021 Percentage	2021												2021 Total
				1	2	3	4	5	6	7	8	9	10	11	12	
				Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
Residential Income and Age Qualifying Home Improvement:																
	100	Schedule 1	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
	160	Schedule 1	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
	163	Schedule 1	100.0%	5,564	5,564	5,564	6,466	6,467	6,493	6,493	6,493	6,493	6,493	6,493	6,493	6,493
	166	Schedule 1DF	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-
	184	Schedule 30	0.0%	-	-	-	1	1	1	1	1	1	1	1	1	1
Residential Income and Age Qualifying Home Improvement Sub-Total:			100.0%	5,564	5,564	5,564	6,467	6,468	6,494	6,494	6,494	6,494	6,494	6,494	6,494	6,494
Total:				5,564	5,564	5,564	6,467	6,468	6,494	6,494	6,494	6,494	6,494	6,494	6,494	6,494

NOTES:

1. Net energy savings (kWh) are based on Dominion Energy's planning attribution assumptions applied to DNV's deemed energy savings estimates from actual program participants.
2. 2021 Total Energy savings (kWh) are inclusive of EE measures installed on, or after, July 1, 2019 through December 31, 2021 that are accumulated and realized between January 1, 2021 through December 31, 2021.

NC GENERAL RATE CASE; DOCKET E-22, SUB 604

Phase V EE Programs: Net Energy Savings (kWh) (Cumulative by Month)	Rate Code	Rate Schedule	2021 Percentage	2021												2021 Total
				1	2	3	4	5	6	7	8	9	10	11	12	
				Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	
Non-Residential Small Business Improvement																
	168	Schedule 5	90.6%	45,331	58,803	58,803	58,803	58,803	58,803	58,803	58,803	58,803	58,803	58,803	58,803	58,803
	170	Schedule 5P	9.4%	5,953	5,953	5,953	5,953	5,953	5,953	5,953	5,953	5,953	5,953	5,953	5,953	5,953
Non-Residential Small Business Improvement Sub-Total:			100.0%	51,284	64,756	64,756	64,756	64,756	64,756	64,756	64,756	64,756	64,756	64,756	64,756	64,756
Residential Retail LED:																
	163	Schedule 1	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Retail LED Sub-Total:			N/A	-	-	-	-	-	-	-	-	-	-	-	-	-
Total:				51,284	64,756	64,756	64,756	64,756	64,756	64,756	64,756	64,756	64,756	64,756	64,756	64,756

NOTES:

1. Net energy savings (kWh) are based on Dominion Energy's planning attribution assumptions applied to DNV's deemed energy savings estimates from actual program participants.
2. 2021 Total Energy savings (kWh) are inclusive of EE measures installed on, or after, July 1, 2019 through December 31, 2021 that are accumulated and realized between January 1, 2021 through December 31, 2021.

NC GENERAL RATE CASE; DOCKET E-22, SUB 604

Phase VI EE Programs: Net Energy Savings (kWh) (Cumulative by Month)	Rate Code	Rate Schedule	2021 Percentage	2021												2021 Total	
				1	2	3	4	5	6	7	8	9	10	11	12		
				Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.		
Non-Residential Prescriptive																	
	168	Schedule 5	17.2%	3,464	3,464	3,464	4,808	15,740	20,945	20,945	20,945	20,945	21,727	21,727	24,810	182,984	
	170	Schedule 5P	51.2%	38,723	38,723	38,723	45,606	45,606	48,124	48,124	48,124	48,124	48,329	48,329	48,329	544,864	
	176	Schedule 6P	15.6%	-	8,042	15,735	15,735	15,735	15,735	15,735	15,735	15,735	15,735	15,735	15,735	165,392	
	183	Schedule 10	16.0%	14,168	14,168	14,168	14,168	14,168	14,168	14,168	14,168	14,168	14,168	14,168	14,168	170,016	
Non-Residential Prescriptive Sub-Total:				100.0%	56,355	64,397	72,090	80,317	91,249	98,972	98,972	98,972	98,972	99,959	99,959	103,042	1,063,256
Total:					56,355	64,397	72,090	80,317	91,249	98,972	98,972	98,972	98,972	99,959	99,959	103,042	1,063,256

NOTES:

1. Net energy savings (kWh) are based on Dominion Energy's planning attribution assumptions applied to DNV's deemed energy savings estimates from actual program participants.
2. 2021 Total Energy savings (kWh) are inclusive of EE measures installed on, or after, July 1, 2019 through December 31, 2021 that are accumulated and realized between January 1, 2021 through December 31, 2021.

NC GENERAL RATE CASE; DOCKET E-22, SUB 604				2021												2021 Total	
Phase VII EE Programs: Net Energy Savings (kWh) (Cumulative by Month)	Rate Code	Rate Schedule	2021 Percentage	1	2	3	4	5	6	7	8	9	10	11	12		
				Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.		
Residential Efficient Products Marketplace Program																	
	100	Schedule 1	0.0%	4	4	4	4	4	4	4	7	7	7	7	7	63	
	163	Schedule 1	100.0%	164,372	189,438	207,918	233,720	248,197	260,678	275,185	288,052	299,946	314,998	329,545	342,942	3,154,991	
	164	Schedule 1P	0.0%	3	3	11	11	11	11	11	13	23	23	23	23	166	
	165	Schedule 1T	0.0%	2	2	2	2	2	2	2	2	2	2	2	2	24	
	166	Schedule 1DF	0.0%	8	8	8	10	10	10	10	10	10	10	14	14	122	
Residential Efficient Products Marketplace Sub-Total:				100.0%	164,389	189,455	207,943	233,747	248,224	260,705	275,212	288,084	299,988	315,040	329,591	342,988	3,155,366
Residential Home Energy Assessment Program																	
	163	Schedule 1	96.2%	1,264	1,264	2,235	2,478	3,323	3,887	4,012	4,047	4,630	5,757	5,757	5,831	44,485	
	195	Schedule 26	3.8%	29	29	29	184	184	184	184	184	184	184	184	184	1,743	
Residential Home Energy Assessment Program Sub-Total:				100.0%	1,293	1,293	2,264	2,662	3,507	4,071	4,196	4,231	4,814	5,941	5,941	6,015	46,228
Non-Residential Lighting Systems and Controls Program																	
	168	Schedule 5	97.5%	6,218	6,343	9,762	9,762	9,938	10,152	10,152	10,152	17,300	17,300	17,300	17,300	141,679	
	170	Schedule 5P	0.0%	-	-	-	-	-	-	-	-	-	-	-	-	-	
	188	Schedule 42	2.5%	304	304	304	304	304	304	304	304	304	304	304	304	3,648	
Non-Residential Lighting Systems and Controls Program Sub-Total:				100.0%	6,522	6,647	10,066	10,066	10,242	10,456	10,456	10,456	17,604	17,604	17,604	17,604	145,327
Non-Residential Window Film Program																	
	168	Schedule 5	100.0%	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	13,944	
Non-Residential Lighting Window Film Program Sub-Total:				100.0%	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	13,944
Non-Residential Office																	
	170	Schedule 5P	100.0%	-	-	-	1,638	1,638	1,638	1,638	1,638	3,259	3,259	3,259	3,259	21,226	
Non-Residential Office Program Sub-Total:							1,638	1,638	1,638	1,638	1,638	3,259	3,259	3,259	3,259	21,226	
Non-Residential Heating and Cooling Efficiency Program																	
	170	Schedule 5P	100.0%	-	-	-	-	172	172	172	172	172	172	172	172	1,376	
Non-Residential Heating and Cooling Efficiency Program Sub-Total:				100.0%				172	172	172	172	172	172	172	172	1,376	
Total:					173,366	198,557	221,435	249,275	264,945	278,204	292,836	305,743	326,999	343,178	357,729	371,200	3,383,467

NOTES:

- Net energy savings (kWh) are based on Dominion Energy's planning attribution assumptions applied to DNV's deemed energy savings estimates from actual program participants.
- 2021 Total Energy savings (kWh) are inclusive of EE measures installed on, or after, July 1, 2019 through December 31, 2021 that are accumulated and realized between January 1, 2021 through December 31, 2021.

NC GENERAL RATE CASE; DOCKET E-22, SUB 604

	Rate Code	Rate Schedule	2021 Percentage	2021												2021 Total
				1 Jan.	2 Feb.	3 Mar.	4 Apr.	5 May	6 Jun.	7 Jul.	8 Aug.	9 Sep.	10 Oct.	11 Nov.	12 Dec.	
Phase VIII EE Programs: Net Energy Savings (kWh) (Cumulative by Month)																
Residential Smart Thermostat Management (EE and Behavioral) Program																
	163	Schedule 1	89.6%	-	-	-	-	342	471	589	545	1,246	1,289	1,371	1,784	7,637
	164	Schedule 1P	10.4%	-	-	-	-	19	19	19	155	155	155	155	213	890
Residential Smart Thermostat Management (EE and Behavioral) Program Sub-Total			100.0%	-	-	-	-	361	490	608	700	1,401	1,444	1,526	1,997	8,527
Residential Energy Efficiency Kits Program																
	163	Schedule 1	99.8%	-	-	-	-	-	-	556	3,371	4,931	6,396	6,401	7,967	29,622
	164	Schedule 1P	0.2%	-	-	-	-	-	-	-	6	12	12	12	12	54
Residential Energy Efficiency Kits Program Sub-Total			100.0%	-	-	-	-	-	-	556	3,377	4,943	6,408	6,413	7,979	29,676
Non-residential Small Business Improvement Enhanced Program																
	168	Schedule 5	100.0%	-	-	-	-	-	-	-	-	5,724	10,860	10,860	12,214	39,658
Non-residential Small Business Improvement Enhanced Program Sub-Total			100.0%	-	-	-	-	-	-	-	-	5,724	10,860	10,860	12,214	39,658
Total				-	-	-	-	361	490	1,164	4,077	12,068	18,712	18,799	22,190	77,861

NOTES:

1. Net energy savings (kWh) are based on Dominion Energy's planning attribution assumptions applied to DNV's deemed energy savings estimates from actual program participants.
2. 2021 Total Energy savings (kWh) are inclusive of EE measures installed on, or after, July 1, 2019 through December 31, 2021 that are accumulated and realized between January 1, 2021 through December 31, 2021.

Date	Weather Conditions °F	Event Trigger	Control Mode	Number of Customers Controlled	Number of Customers Enrolled
06/07/2021	89	Peak Shaving	AC Units	64,460	67,562
06/08/2021	90	Peak Shaving	AC Units	64,392	67,491
06/09/2021	89	Peak Shaving	AC Units	64,325	67,435
06/21/2021	95	Peak Shaving	AC Units	64,070	67,126
06/28/2021	90	Peak Shaving	AC Units	63,900	66,941
06/29/2021	92	Peak Shaving	AC Units	63,857	66,891
06/30/2021	95	Peak Shaving	AC Units	63,797	66,839
07/06/2021	92	Peak Shaving	AC Units	63,636	66,671
07/07/2021	94	Peak Shaving	AC Units	63,602	66,633
07/12/2021	91	Peak Shaving	AC Units	63,486	66,496
07/13/2021	91	Peak Shaving	AC Units	63,422	66,449
07/15/2021	92	Peak Shaving	AC Units	63,333	66,346
07/16/2021	94	Peak Shaving	AC Units	63,283	66,301
07/21/2021	92	Peak Shaving	AC Units	63,174	66,176
07/26/2021	88	Peak Shaving	AC Units	63,038	66,039
07/27/2021	89	Peak Shaving	AC Units	63,000	65,993
07/28/2021	91	Peak Shaving	AC Units	62,957	65,949
08/10/2021	91	Peak Shaving	AC Units	62,652	65,613
08/11/2021	93	Peak Shaving	AC Units	62,614	65,571
08/12/2021	94	Peak Shaving	AC Units	62,562	65,537
08/13/2021	94	Peak Shaving	AC Units	62,523	65,491
08/19/2021	92	Peak Shaving	AC Units	62,378	65,320
08/24/2021	95	Peak Shaving	AC Units	62,259	65,204
08/25/2021	92	Peak Shaving	AC Units	62,210	65,151
08/26/2021	93	Peak Shaving	AC Units	62,175	65,103

1. The "Number of Customers Enrolled" is the count of active participants effective the day of the event, defined as gross participants enrolled in the program less deactivations and removals.

2. The "Number of Customers Controlled" further adjusts the "Number of Customers Enrolled" for specific event date opt-outs, participants not in the dispatch log.

Date	Event Duration (minutes)	Hour Ending	kW Demand Requested	kW Demand Reductions Observed
06/07/2021	180	18:00	28,382	28,382
06/08/2021	180	18:00	30,115	30,115
06/09/2021	180	18:00	21,278	21,278
06/21/2021	180	18:00	33,473	33,473
06/28/2021	120	18:00	29,885	29,885
06/29/2021	180	18:00	31,613	31,613
06/30/2021	240	18:00	33,330	33,330
07/06/2021	180	19:00	29,761	29,761
07/07/2021	180	18:00	29,745	29,745
07/12/2021	240	19:00	33,167	33,167
07/13/2021	240	19:00	31,398	31,398
07/15/2021	240	19:00	31,354	31,354
07/16/2021	180	18:00	29,596	29,596
07/21/2021	180	18:00	27,815	27,815
07/26/2021	180	18:00	26,030	26,030
07/27/2021	180	19:00	31,189	31,189
07/28/2021	120	18:00	25,996	25,996
08/10/2021	120	18:00	31,016	31,016
08/11/2021	180	19:00	32,712	32,712
08/12/2021	120	18:00	36,111	36,111
08/13/2021	120	17:00	34,376	34,376
08/19/2021	180	18:00	30,881	30,881
08/24/2021	120	18:00	30,822	30,822
08/25/2021	120	18:00	30,798	30,798
08/26/2021	120	18:00	30,780	30,780

Date	Weather Conditions °F	Event Trigger	Control Mode	Number of Customers Controlled	Number of Customers Enrolled
06/07/2021	89	Peak Shaving	Smart Thermostats	2,592	2,798
06/08/2021	90	Peak Shaving	Smart Thermostats	2,591	2,800
06/09/2021	89	Peak Shaving	Smart Thermostats	2,577	2,801
06/21/2021	95	Peak Shaving	Smart Thermostats	2,751	2,954
06/28/2021	90	Peak Shaving	Smart Thermostats	2,789	3,013
06/29/2021	92	Peak Shaving	Smart Thermostats	2,806	3,022
06/30/2021	95	Peak Shaving	Smart Thermostats	2,768	3,023
07/06/2021	92	Peak Shaving	Smart Thermostats	3,003	3,245
07/07/2021	94	Peak Shaving	Smart Thermostats	2,981	3,228
07/12/2021	91	Peak Shaving	Smart Thermostats	2,990	3,252
07/13/2021	91	Peak Shaving	Smart Thermostats	2,993	3,249
07/15/2021	92	Peak Shaving	Smart Thermostats	2,991	3,236
07/16/2021	94	Peak Shaving	Smart Thermostats	2,972	3,234
07/21/2021	92	Peak Shaving	Smart Thermostats	3,021	3,256
07/26/2021	88	Peak Shaving	Smart Thermostats	3,087	3,306
07/27/2021	89	Peak Shaving	Smart Thermostats	3,054	3,306
07/28/2021	91	Peak Shaving	Smart Thermostats	3,049	3,295
08/10/2021	91	Peak Shaving	Smart Thermostats	3,691	3,970
08/11/2021	93	Peak Shaving	Smart Thermostats	3,654	4,000
08/12/2021	94	Peak Shaving	Smart Thermostats	3,688	4,031
08/13/2021	94	Peak Shaving	Smart Thermostats	3,688	4,029
08/19/2021	92	Peak Shaving	Smart Thermostats	3,813	4,160
08/24/2021	95	Peak Shaving	Smart Thermostats	3,849	4,156
08/25/2021	92	Peak Shaving	Smart Thermostats	3,819	4,145
08/26/2021	93	Peak Shaving	Smart Thermostats	3,822	4,142

1. The “Number of Customers Enrolled” is the number of unique accounts that appear in the telemetry-control data on the event day.
2. The "Number of Customers Controlled" is the number of accounts with full or partial participation in the telemetry-control data on the event day. Accounts that participate for a portion of the event are counted as controlled. For accounts with multiple thermostats, if at least one thermostat participates for a portion of the event, the account is counted as controlled.

Date	Event Duration (minutes)	Hour Ending	kW Demand Requested	kW Demand Reductions Observed
06/07/2021	180	18:00	2,848	2,848
06/08/2021	180	18:00	2,851	2,851
06/09/2021	180	18:00	2,631	2,631
06/21/2021	180	18:00	3,066	3,066
06/28/2021	120	18:00	3,067	3,067
06/29/2021	180	18:00	3,136	3,136
06/30/2021	240	18:00	3,197	3,197
07/06/2021	180	19:00	3,368	3,368
07/07/2021	180	18:00	3,350	3,350
07/12/2021	240	19:00	3,439	3,439
07/13/2021	240	19:00	3,372	3,372
07/15/2021	240	19:00	3,358	3,358
07/16/2021	180	18:00	3,356	3,356
07/21/2021	180	18:00	3,186	3,186
07/26/2021	180	18:00	3,235	3,235
07/27/2021	180	19:00	3,431	3,431
07/28/2021	120	18:00	3,289	3,289
08/10/2021	120	18:00	4,042	4,042
08/11/2021	180	19:00	4,151	4,151
08/12/2021	120	18:00	4,422	4,422
08/13/2021	120	17:00	4,340	4,340
08/19/2021	180	18:00	4,317	4,317
08/24/2021	120	18:00	4,231	4,231
08/25/2021	120	18:00	4,301	4,301
08/26/2021	120	18:00	4,135	4,135

**DIRECT TESTIMONY
OF
JARVIS E. BATES
ON BEHALF OF
DOMINION ENERGY NORTH CAROLINA
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-22, SUB 645**

1 **Q. Please state your name, business address, and position with Virginia**
2 **Electric and Power Company (“Dominion Energy North Carolina” or the**
3 **“Company”).**

4 A. My name is Jarvis E. Bates, and my title is Energy Conservation Compliance
5 Consultant for Dominion Energy North Carolina. My business address is 600
6 East Canal Street, Richmond, Virginia 23219. My educational background
7 and experience are detailed in Appendix A.

8 **Q. Please describe your area of responsibility with the Company.**

9 A. I am responsible for cost and reporting compliance matters in the Company’s
10 Energy Conservation (“EC”) department including: (1) cost preparation and
11 cost oversight associated with the demand-side management (“DSM”) and
12 energy efficiency (“EE”) programs (“DSM/EE Programs” or “Programs”); (2)
13 cost compliance with DSM/EE Program related rider requirements; and (3)
14 EC Department internal and external regulatory and managerial cost reporting.

15 **Q. What is the purpose of your testimony in this proceeding?**

16 A. My testimony supports the Company’s request to recover all reasonable and
17 prudent costs incurred in adopting and implementing the Company’s portfolio
18 of DSM/EE Programs and utility incentives, through its updated Rider C, as

1 well as the Company's experience modification factor ("EMF") rider, Rider
2 CE ("Application"). In my testimony, I provide cost projections, including
3 Common Costs, for the Company's DSM/EE Programs during January 1,
4 2023 through December 31, 2023, that have been used as a proxy for the
5 projected February 1, 2023 through January 31, 2024 rate period (the "Rate
6 Period") as well as actual costs incurred during the EMF period January 1,
7 2021 through December 31, 2021 ("Test Period"). My testimony also
8 presents the Portfolio Performance Incentive ("PPI") for each Program in
9 accordance with the revised Cost Recovery and Incentive Mechanism
10 approved by the Commission on May 22, 2017, in Docket No. E-22, Sub 464
11 as well as the recent revised Cost Recovery and Incentive Mechanism
12 approved by the Commission on March 22, 2022, in Docket No. E-22, Sub
13 464 ("Mechanism"). I also calculate the PPI EMF true up for vintage year
14 2021 in accordance with the terms of the Mechanism. Additionally, my
15 testimony lists the commercial and industrial customers that have elected to
16 "opt out" of the Company's DSM/EE Programs as required by NCUC Rule
17 R8-69(d)(2).

18 **Q. Mr. Bates, are you sponsoring any exhibits or schedules in connection**
19 **with your testimony?**

20 A. Yes. Company Exhibit JEB-1, consisting of Schedules 1-7 (with all schedules
21 provided in public and confidential versions filed under seal), was prepared
22 under my direction and supervision and is accurate and complete to the best of
23 my knowledge and belief. My Schedules 1-5 support the development of the

1 projected Rate Period revenue requirement: Schedule 1 provides summary
2 system-level Program and system-level Common Costs; Schedule 2 provides
3 details for system-level Program Costs; Schedule 3 provides details for
4 system-level Common Costs; Schedule 4 provides DSM Projected Program
5 Costs which are used by Company Witness Christopher Hewett for purposes
6 of allocating Common Costs; and Schedule 5 provides the streamlined
7 calculation of the Projected PPI for qualifying Programs. Schedule 6 provides
8 actual cost information in support of the PPI true-up. Schedule 7 provides
9 actual cost information in support of the Test Period EMF revenue
10 requirement developed by Company Witness Justin Wooldridge and includes
11 actual system-level Program and system-level Common Costs incurred during
12 the Test Period.

13 **Q. Please identify the Company's DSM/EE Programs for which cost**
14 **recovery is sought in this proceeding.**

15 A. The Company is seeking cost recovery for adopting and implementing: (a)
16 the previously approved Phase I DSM/EE program: Residential Air
17 Conditioner Cycling Program;^{1,2} (b) the previously approved Phase III
18 DSM/EE program: Non-Residential Lighting Systems and Controls;³ (c) the

¹ Docket No. E-22, Sub 465. All other Phase I programs except the Residential Air Conditioner Cycling Program have previously been concluded.

² In 2016, the Commission approved closure of the Company's Phase II programs. *See Order on Motion to Close or Programs*, Docket No. E-22, Subs 495, 496, 497, 498, 499, and 500 (Nov. 29, 2016).

³ Docket No. E-22, Subs 507, 508, and 509. On August 16, 2018, the Company filed a motion in Docket No. E-22, Sub 509 to close the Non-residential Window Film Program, and filed applications in Docket No. E-22, Subs 507 and 508 for Commission approval to transition the Non-residential Heating and Cooling Efficiency Program and the Non-residential Lighting Systems and Controls Program to be offered on a North Carolina-only basis. On October 16, 2018, the Commission granted

1 previously approved Phase IV Income and Age Qualifying Home
2 Improvement Program;⁴ (d) the previously approved Phase V Non-Residential
3 Small Business Improvement Program;⁵ (e) the previously approved Phase VI
4 Non-residential Prescriptive Program;⁶ (f) the previously approved Phase VII
5 Programs: Non-residential Heating and Cooling Efficiency, Non-residential
6 Lighting Systems & Controls, Non-residential Window Film, Non-residential
7 Office, Non-residential Small Manufacturing, Residential Appliance
8 Recycling, Residential Home Energy Assessment, , and Residential Efficient
9 Products Marketplace;⁷ (g) the previously approved Phase VIII Programs:
10 Non-residential New Construction, Non-residential Small Business
11 Improvement Enhanced, Residential EE Kits, Residential Smart Thermostat
12 DR, Residential Smart Thermostat EE, and Residential Home Retrofit;⁸ and
13 (g) the previously approved Phase IX Programs: Non-residential Building
14 Automation, Non-residential Building Optimization, Non-residential
15 Engagement, Non-residential Prescriptive, Residential Income and Age

the Companies' request to close the Non-residential Window Film Program in Docket No. E-22, Sub 509, as well as the Companies' request to offer the Non-residential Heating and Cooling Efficiency and Non-residential Lighting Systems and Controls Programs on a North Carolina-only basis in Docket No. E-22, Sub 507 and E-22, Sub 508, respectively. On November 13, 2019, the Commission's Order approving the Phase VII Programs also authorized DENC to close the North Carolina-only Non-Residential Lighting Systems and Controls Program and the Non-Residential Heating and Cooling Efficiency Programs, as they were being replaced with system-wide programs providing similar measures.

⁴ Docket No. E-22, Sub 523.

⁵ Docket No. E-22, Sub 538.

⁶ Docket No. E-22, Sub 543.

⁷ Docket No. E-22, Subs 567, 568, 569, 570, 571, 572, 573, 574.

⁸ Docket No. E-22, Subs 591, 592, 593, 594, 595, 596.

1 Qualifying Home Improvement, Residential Smart Home, Residential Virtual
2 Audit, Residential Water Savings EE, and Residential Water Savings DR.⁹

3 **Q. What is the nature of the costs for the DSM/EE Programs?**

4 A. The costs are primarily categorized as direct “Program Costs” and indirect
5 “Common Costs.” These Program Costs and Common Costs are those solely
6 associated with the EC Department, which was assigned the responsibility to
7 separately identify and track DSM/EE costs related to the proposed Programs.
8 The projected Program Costs are those costs that are directly attributable to
9 individual Programs and primarily include costs based on signed vendor
10 contracts. Program Costs include design, implementation, marketing,
11 information technology hardware and software, call center, customer
12 incentives, equipment, startup costs, vendor margins, data collection and
13 reporting, promotional events, management and field operations, EM&V costs
14 and similar vendor and/or internal costs. The majority of these Program Costs
15 are based on contracts with the Company’s main Program vendors, Clearesult,
16 Itron, Honeywell, and Resource Innovations. The Company will also incur
17 certain indirect Common Costs that are part of implementation of the
18 DSM/EE Programs, which are not specifically associated with any individual
19 DSM Program. These costs include certain customer communication costs,
20 department labor costs, dues and association costs, and external vendor costs.

⁹ Docket No. E-22, Subs 608, 614, 615, 616, 617, 618, 619, 620, 621.

1 Company Witness Wooldridge further addresses deferral of DSM/EE Program
2 costs in his direct testimony.

3 **Q. How is the information that you provide related to projected Rate Period**
4 **Program and Common Costs used by the other witnesses in this**
5 **proceeding?**

6 A. The Company is seeking to recover reasonable and prudent costs that are
7 projected for implementation of the DSM/EE Programs during the Rate
8 Period. As discussed above, such costs include the Program Costs and
9 Common Costs. Schedule 1 of my prefiled direct testimony shows both
10 Program Costs and Common Costs, at the system level, associated with
11 implementation of the Phase I, -Phase VI, Phase VII, Phase VIII, and Phase IX
12 Programs for the Rate Period. Company Witness Wooldridge uses these costs
13 to develop the revenue requirement in support of this Application. Company
14 Witness Hewett then explains the assignment and allocation of these costs to
15 the North Carolina jurisdictional customers, using penetration and participant
16 percentages from my Schedule 4, which are provided pursuant to NCUC Rule
17 R8-9(f)(1)(ii)(a). Finally, Company Witness Casey R. Lawson develops the
18 DSM/EE Rider, Rider C, for recovery of the projected costs.

19 **Q. How is the information you provide in Schedules 6 and 7 related to actual**
20 **Test Period Program and Common Costs used by the other witnesses in**
21 **this proceeding?**

22 A. Through Rider CE, the Company is seeking to true up all DSM/EE Program
23 and Common Costs incurred during the Test Period with the revenues

1 received through Rider C during the Test Period. Company Witness
2 Wooldridge uses the actually incurred Test Period DSM/EE Program and
3 Common Costs set forth in my Schedules 6 and 7 to develop the EMF revenue
4 requirement to be recovered through Rider CE. Company Witness Hewett
5 then explains the assignment and allocation of these costs to the North
6 Carolina jurisdictional customers. Finally, Company Witness Lawson
7 calculates Rider CE to recover these costs.

8 **Q. Please describe the PPI provisions in the Mechanism.**

9 A. The Mechanism has historically provided for a PPI based upon the
10 performance of each individual program, which would be eligible for an
11 incentive if the Program achieved a utility cost test (“UCT”) score above 1.0.
12 Through the revisions to the Mechanism agreed to between the Company and
13 the Public Staff and approved by the Commission on March 22, 2022, the
14 Mechanism continues to provide for a “portfolio performance incentive”
15 applicable to measures installed beginning with vintage year 2017.
16 Paragraphs 49 – 62 of the updated Mechanism govern calculation and
17 recovery of the PPI¹⁰.

¹⁰ The previous Mechanism update was agreed upon and approved by the Commission on May 22, 2017. This provided for a “portfolio performance incentive” applicable to measures installed beginning with vintage year 2017. Paragraphs 49-61 governed the calculation and recovery of PPI in that version of the Mechanism.

1 **Q. Please describe Schedule 5 of your prefiled direct testimony, which**
2 **calculates the projected PPI to be recovered during the Rate Period**
3 **consistent with the Mechanism.**

4 A. My Schedule 5 calculates the projected PPI to be recovered during the Rate
5 Period in a manner consistent with Paragraphs 49-62 of the revised
6 Mechanism, and consistent with the Company's approach approved in the
7 2017 cost recovery proceeding, Docket No. E-22, Sub 545. Specifically, my
8 Schedule 5 utilizes two PPI components. First, PPI "actual" results from
9 pertinent vintage years (2016 and prior) were calculated using the
10 methodology identical to past DSM/EE cases. Starting with the 2017 vintage
11 year, PPI "actual" results are calculated using the updated portfolio
12 methodology as approved in 2017. Second, Projected PPI "estimates" for
13 vintage year 2023, and for vintage year 2022,¹¹ are calculated in accordance
14 with Paragraph 55(g) of the Mechanism.

15 **Q. Please explain the Company's approach for calculating the projected**
16 **Rate Period PPI.**

17 A. Paragraph 55(g) of the Mechanism provides that the Company may utilize a
18 reasonable, simplified approach to estimated net dollar savings associated
19 with measurement units installed in future vintage years for purposes of
20 projecting the PPI to be recovered during the Rate Period. The Company's
21 approach for producing the projected PPI relies on the two components of the

¹¹ In accordance with Paragraph 55(b) of the Mechanism update approved by the Commission on May 22, 2017.

1 calculation. For the first component, the Company uses the data supporting its
2 PPI calculation in the prior year’s DSM cost recovery proceeding to isolate
3 the “actual” PPI dollar amount for the prior vintage year and then continues to
4 use that amount in this current case as the first component of the projected PPI
5 total revenue requirement. Consistent with the Company’s approach in the
6 2021 DSM/EE cost recovery proceeding, the second component of the PPI
7 estimate is calculated using the current case’s operating expense revenue
8 requirement times 1% to produce a dollar amount for “estimated” PPI.
9 Adding the “actual” PPI dollar amount to the “estimated” PPI dollar amount
10 for the Rate Period thus produces a streamlined and reasonably conservative
11 estimate of the projected PPI for each Program. This data would naturally
12 refresh with every new DSM/EE cost recovery proceeding.

13 **Q. Please describe Schedule 6 of your prefiled direct testimony, which**
14 **calculates the PPI EMF true-up consistent with the Mechanism.**

15 A. My Schedule 6 calculates the EMF true-up in a manner consistent with
16 Paragraph 60¹² of the revised Mechanism. I have obtained the number of
17 actual installed measurement units and the verified kW and kWh savings
18 associated with each Program for vintage year 2021 from the Company’s most
19 recently filed EM&V Report, as filed June 15, 2022 in Docket No. E-22, Sub
20 604. Coupled with the Company’s actual costs for vintage year 2021, this
21 information is used to calculate the actual net cost/benefit results for each

¹² The previous Mechanism update was agreed upon and approved by the Commission on May 22, 2017. Paragraph 59 was the previous reference for the vintage year true up.

1 Program. I then developed a comparison of actual results versus projected
2 cost/benefit results that are used to derive a true-up PPI. Once a PPI true-up
3 for a given vintage year has been completed based upon final EM&V data
4 filed with the Commission, the Company finalizes its PPI true-up for that
5 vintage year.

6 **Q. Are you also providing information regarding the Company's event**
7 **sponsorship and consumer education and awareness initiatives during the**
8 **Test Period?**

9 A. Yes, as directed by the Commission, the Company provides the following
10 information regarding its event sponsorship and consumer education and
11 awareness initiatives during the Test Period. The EC Department actively ties
12 its communication and outreach activities directly to a specific DSM/EE
13 Program, so actual general education and awareness costs are limited. The EC
14 Department also relies heavily on the Dominion Energy, Inc. ("Dominion
15 Energy") website to provide general education to our customers through tips,
16 videos, and online energy audit tools, among other channels. The EC program
17 pages have garnered approximately 270,000 visits in the current Test Period.
18 In addition, the Company's DSM Phase VI, VII, VIII, and IX implementation
19 vendor, Honeywell, has created its own program web pages for detailed
20 tracking on marketing efforts. Honeywell's program pages have garnered
21 over 200,000 hits during the Test Period. In addition, the EC Department took
22 advantage of other high-coverage, low-cost channels, such as social media.
23 Dominion Energy is continually growing social media presence on both

1 Facebook and Twitter gaining, since creation, over 154,000 fans and 65,000
2 followers, respectively. Whenever possible, the EC Department attempts to
3 utilize low-cost options to communicate general education to our customers.

4 **Q. Please elaborate on the status of DSM/EE opt-out customers.**

5 A. As required to be listed by NCUC Rule R8-69(d)(2), the following customers
6 have elected to opt-out of the Company's DSM/EE Programs pursuant to
7 North Carolina General Statute § 62-133.9(f) and NCUC Rule R8-69(d):
8 Weyerhaeuser (1 account); Nucor Steel-Hertford (1 account); KapStone Paper
9 and Packaging Company (2 accounts); KABA Ilco (1 account); Consolidated
10 Diesel (1 account); Domtar Paper Company LLC (1 account); Enviva Pellets
11 (2 accounts); Flambeau Products Corp. (1 account); Lowes Home Center, Inc.
12 (5 accounts); Hospira, Inc. (1 account); Parkdale America LLC (1 account);
13 WalMart Stores (6 accounts), and State of North Carolina (10 accounts).
14 Company Witness Lawson's direct testimony provides projected North
15 Carolina total retail monthly sales for the Calendar Year for accounts who
16 have chosen to opt-out of the DSM/EE Rider, as required by NCUC Rule R8-
17 69(f)(1)(vii).

18 **Q. Does that conclude your prefiled direct testimony?**

19 A. Yes, it does.

**BACKGROUND AND QUALIFICATIONS
OF
JARVIS E. BATES**

Mr. Bates is the Energy Conservation Compliance Consultant for Dominion Energy Virginia / Dominion Energy North Carolina. His responsibilities include demand-side management and energy efficiency ("DSM/EE") program cost oversight, compliance and DSM/EE internal and external reporting. He has provided testimony in prior DSM filings in Virginia and North Carolina.

Mr. Bates has a Bachelor of Business Administration degree in Finance from James Madison University. Prior to joining the company in 2007, he had over 14 years of experience in finance, operations management, and leadership in the Telecom, Healthcare, and Retail industries. Since joining Dominion, he has held finance positions supporting the Services Company as well as supporting Energy Conservation.

Row
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73

	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2024	Rate Year
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
Programs (1)													
Phase I (O&M and Capital)													
Phase I Total	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	100,000
Phase VI (O&M Only)													
Phase VII (O&M Only)													
Phase VII Total	1,872,619	1,872,619	1,872,619	1,872,619	1,872,619	1,872,619	1,872,619	1,872,619	1,872,619	1,872,619	1,872,619	1,872,619	22,471,432
Phase VIII (O&M Only)													
Phase VIII Total	1,187,336	1,187,336	1,187,336	1,187,336	1,187,336	1,187,336	1,187,336	1,187,336	1,187,336	1,187,336	1,187,336	1,187,336	14,248,032
Phase IX													
Phase IX Total	1,835,047	1,835,047	1,835,047	1,835,047	1,835,047	1,835,047	1,835,047	1,835,047	1,835,047	1,835,047	1,835,047	1,835,047	22,020,563
DSM Phases I, IV, V, VI, VII, and VIII Total	4,911,669	4,911,669	4,911,669	4,911,669	4,911,669	4,911,669	4,911,669	4,903,336	4,903,336	4,903,336	4,903,336	4,903,336	58,890,028
Program O&M Total	4,911,669	4,911,669	4,911,669	4,911,669	4,911,669	4,911,669	4,911,669	4,903,336	4,903,336	4,903,336	4,903,336	4,903,336	58,890,028
Program Capital Total	-	-	-	-	-	-	-	-	-	-	-	-	-
Common Costs (O&M Only)													
Total	437,426	437,426	437,426	437,426	437,426	437,426	437,426	437,426	437,426	437,426	437,426	437,426	5,289,913
Program and Common O&M Total	5,349,095	5,349,095	5,349,095	5,349,095	5,349,095	5,349,095	5,349,095	5,340,761	5,340,761	5,340,761	5,340,761	5,340,761	64,139,135
Program Capital Total	-	-	-	-	-	-	-	-	-	-	-	-	-
Grand Total	\$ 5,349,095	\$ 5,349,095	\$ 5,349,095	\$ 5,349,095	\$ 5,349,095	\$ 5,349,095	\$ 5,349,095	\$ 5,340,761	\$ 5,340,761	\$ 5,340,761	\$ 5,340,761	\$ 5,340,761	\$ 64,139,135

Notes:
 1. System Total of All Jurisdictions
 2. Res. Residential; Com. Commercial; Non Res. Non Residential
 3. Costs exclude PPI & Lost Revenues

OFFICIAL COPY
Aug 09 2022

Row	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13													
	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2024														
Programs	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Rate Year													
1	[REDACTED]																									
2																										
3																										
4																										
5																										
6																										
7																										
9	[REDACTED]																									
10														Total all Program Costs												
11														O&M	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	8,333	100,000
12														Capital	-	-	-	-	-	-	-	-	-	-	-	-
13	Grand Total	\$ 8,333	\$ 8,333	\$ 8,333	\$ 8,333	\$ 8,333	\$ 8,333	\$ 8,333	\$ 8,333	\$ 8,333	\$ 8,333	\$ 8,333	\$ 100,000													
14																										
15	Notes:																									
16	1. System = Total of All Jurisdictions																									
17	2. Res. = Residential; Com. = Commercial; Non Res. = Non Residential																									
18	3. Costs exclude PPI & Lost Revenues																									
19																										
20																										

Row	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
Programs	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2024	
Phase VI	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Rate Year



1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

- Notes:
- 1. System = Total of All Jurisdictions
 - 2. Res. = Residential; Com. = Commercial; Non Res. = Non Residential
 - 3. Costs exclude PPI & Lost Revenues

Row	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
1	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2024	Rate Year
2	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
3	[REDACTED]												
4	[REDACTED]												
5	[REDACTED]												
6	[REDACTED]												
7	[REDACTED]												
8	[REDACTED]												
9	[REDACTED]												
10	[REDACTED]												
11	[REDACTED]												
12	[REDACTED]												
13	[REDACTED]												
14	[REDACTED]												
15	[REDACTED]												
16	[REDACTED]												
17	[REDACTED]												
18	[REDACTED]												
19	[REDACTED]												
20	[REDACTED]												
21	[REDACTED]												

Row	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
Programs	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2024	Rate Year
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
32													
33													
34													
35													
36													
37	Total all Program Costs												
38	Grand Total	\$ 1,872,619	\$ 1,872,619	\$ 1,872,619	\$ 1,872,619	\$ 1,872,619	\$ 1,872,619	\$ 1,872,619	\$ 1,872,619	\$ 1,872,619	\$ 1,872,619	\$ 1,872,619	\$ 22,471,432

- Notes:
1. System Total of All Jurisdictions
 2. Res. Residential; Com. Commercial; Non Res. Non Residential
 3. Costs exclude PPI & Lost Revenues

Row	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2024	
Programs	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Rate Year
Phase VIII													
1													
2													
3													
4													
5													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													

Demand Side Management (DSM)

Projected System Costs

Program Cost Details - Phase VIII

Rate Yr: Feb 2023 to Jan 2024

Dollars

CONFIDENTIAL INFORMATION REDACTED

Row	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13	
Programs	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2024	Rate Year	
Phase VIII	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan		
1	[REDACTED]													
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
16	Total all Program Costs													
17	Grand Total	\$ 1,187,336	\$ 1,187,336	\$ 1,187,336	\$ 1,187,336	\$ 1,187,336	\$ 1,187,336	\$ 1,187,336	\$ 1,187,336	\$ 1,187,336	\$ 1,187,336	\$ 1,187,336	\$ 1,187,336	\$ 14,248,032

- Notes:
- 1. System Total of All Jurisdictions
 - 2. Res. Residential; Com. Commercial; Non Res. Non Residential
 - 3. Costs exclude PPI & Lost Revenues

Row	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2024	Rate Year
Programs	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	
Phase IX													
1													
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29													
30													
31													
32													
33													
34													

Projected System Costs
Program Cost Details - Phase IX
Rate Yr: Feb 2023 to Jan 2024
Dollars

Row	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
Programs	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2024	
Phase IX	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Rate Year
1	[REDACTED]												
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
26													
27													
28													
29	Total all Program Costs												
30	Grand Total	\$ 1,835,047	\$ 1,835,047	\$ 1,835,047	\$ 1,835,047	\$ 1,835,047	\$ 1,835,047	\$ 1,835,047	\$ 1,835,047	\$ 1,835,047	\$ 1,835,047	\$ 1,835,047	\$ 22,020,563

- Notes:
1. System Total of All Jurisdictions
 2. Res. Residential; Com. Commercial; Non Res. Non Residential
 3. Costs exclude PPI & Lost Revenues

OFFICIAL COPY
Aug 09 2022

Row		Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
		2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2024	
		Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Rate Year
1	Common Costs													
2	Energy Conservation Labor													
3	Customer Communication	239,767	239,767	239,767	239,767	239,767	239,767	239,767	239,767	239,767	239,767	239,767	239,767	2,877,201
4	Consultant Support													
5	Dues & Associations	7,083	7,083	7,083	7,083	7,083	7,083	7,083	7,083	7,083	7,083	7,083	7,083	85,000
6	Energy Conservation Staff Support	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	3,333	40,000
7	Total Common Costs	\$ 437,426	\$ 437,426	\$ 437,426	\$ 437,426	\$ 437,426	\$ 437,426	\$ 437,426	\$ 437,426	\$ 437,426	\$ 437,426	\$ 437,426	\$ 437,426	\$ 5,249,108
8														
9														
10														
11	Notes:													
12	1. System = Total of All Jurisdictions													
13														
14														
15														

Row	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13	
	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2023	2024	Rate Year	
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan		
5	DSM Phase II Program													
6	[REDACTED]													
7	[REDACTED]													
8	[REDACTED]													
9	[REDACTED]													
10	[REDACTED]													
11	[REDACTED]													
12	[REDACTED]													
13	[REDACTED]													
14	[REDACTED]													
15	[REDACTED]													
16	[REDACTED]													
17	DSM Phase IX Programs													
	[REDACTED]													
7	Va. Only													
8	[REDACTED]													
9	Total	\$ 2,927,874	\$ 2,927,874	\$ 2,927,874	\$ 2,927,874	\$ 2,927,874	\$ 3,004,439	\$ 3,004,439	\$ 3,004,439	\$ 3,004,439	\$ 2,927,874	\$ 2,927,874	\$ 2,927,874	\$ 35,440,746

Notes:

1. System Total of All Jurisdictions
2. Res. Residential; Com. Commercial; Non Res. Non Residential
3. All the costs on this page are only for the purpose of allocating projected common costs among programs. Dominion Energy NC is not requesting any cost recovery for these programs. The DSM program costs shown above are direct costs. However, the total types of costs for these programs that are not requested in this filing include: direct costs, common costs, PPI, lost revenues, etc.

OFFICIAL COPY
Aug 09 2022

Row	Program by Vintage Year	Res	Air Conditioner Cycling	NC Program Performance Incentive (PPI) Summary Sheet												Total	
				Year 2021 Feb	Year 2023 Mar	Year 2023 Apr	Year 2023 May	Year 2023 Jun	Year 2023 Jul	Year 2023 Aug	Year 2023 Sep	Year 2023 Oct	Year 2023 Nov	Year 2023 Dec	Year 2024 Jan		
1	Year 2012 Trued Up	Res	Low Income	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Year 2012 Trued Up	Com	Lighting	276	276	276	276	276	276	276	276	276	276	276	276	276	3,314
3	Year 2012 Trued Up	Com	HVAC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Year 2013 Trued Up	Res	Air Conditioner Cycling	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Year 2013 Trued Up	Res	Low Income	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Year 2013 Trued Up	Com	Lighting	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Year 2013 Trued Up	Com	HVAC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Year 2014 Trued Up	Res	Air Conditioner Cycling	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Year 2014 Trued Up	Res	Low Income	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Year 2014 Trued Up	Com	Lighting	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	Year 2014 Trued Up	Com	HVAC Upgrade NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Year 2014 Trued Up	Res	Air Conditioner Cycling	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Year 2014 Trued Up	Res	Low Income NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
14	Year 2014 Trued Up	Com	Lighting NC	367	367	367	367	367	367	367	367	367	367	367	367	367	4,399
15	Year 2014 Trued Up	Com	HVAC Upgrade NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	Year 2014 Trued Up	Res	Heat Pump Tune-Up	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Year 2014 Trued Up	Res	Heat Pump Upgrade	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	Year 2014 Trued Up	Res	Heat Pump Upgrade	288	288	288	288	288	288	288	288	288	288	288	288	288	3,455
19	Year 2014 Trued Up	Res	Duct Sealing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
20	Year 2014 Trued Up	Res	Home Energy Check-Up	15	15	15	15	15	15	15	15	15	15	15	15	15	184
21	Year 2014 Trued Up	Non Res.	Duct Testing & Sealing	1,865	1,865	1,865	1,865	1,865	1,865	1,865	1,865	1,865	1,865	1,865	1,865	1,865	22,376
22	Year 2014 Trued Up	Non Res.	Energy Audit	406	406	406	406	406	406	406	406	406	406	406	406	406	4,867
23	Year 2015 Trued Up	Res	Air Conditioner Cycling	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Year 2015 Trued Up	Res	Low Income NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Year 2015 Trued Up	Res	Heat Pump Tune-Up	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Year 2015 Trued Up	Res	Heat Pump Upgrade	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	Year 2015 Trued Up	Res	Heat Pump Upgrade	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	Year 2015 Trued Up	Res	Duct Sealing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29	Year 2015 Trued Up	Res	Home Energy Check-Up	-	-	-	-	-	-	-	-	-	-	-	-	-	-
30	Year 2015 Trued Up	Non Res.	Duct Testing & Sealing	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,814	21,767
31	Year 2015 Trued Up	Non Res.	Energy Audit	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	Year 2015 Trued Up	Non Res.	Lighting Systems & Controls	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236	1,236	14,830
33	Year 2015 Trued Up	Non Res.	Heating & Cooling Efficiency	1,471	1,471	1,471	1,471	1,471	1,471	1,471	1,471	1,471	1,471	1,471	1,471	1,471	17,658
34	Year 2015 Trued Up	Non Res.	Window Film	594	594	594	594	594	594	594	594	594	594	594	594	594	7,124
35	Year 2016 Trued Up	Res	Air Conditioner Cycling	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	Year 2016 Trued Up	Res	Heat Pump Tune-Up	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Year 2016 Trued Up	Res	Heat Pump Upgrade	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Year 2016 Trued Up	Res	Duct Sealing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	Year 2016 Trued Up	Res	Home Energy Check-Up	-	-	-	-	-	-	-	-	-	-	-	-	-	-
40	Year 2016 Trued Up	Non Res.	Duct Testing & Sealing	1,864	1,864	1,864	1,864	1,864	1,864	1,864	1,864	1,864	1,864	1,864	1,864	1,864	22,374
41	Year 2016 Trued Up	Non Res.	Energy Audit	121	121	121	121	121	121	121	121	121	121	121	121	121	1,451
42	Year 2016 Trued Up	Non Res.	Lighting Systems & Controls	1,951	1,951	1,951	1,951	1,951	1,951	1,951	1,951	1,951	1,951	1,951	1,951	1,951	23,418
43	Year 2016 Trued Up	Non Res.	Heating & Cooling Efficiency	1,080	1,080	1,080	1,080	1,080	1,080	1,080	1,080	1,080	1,080	1,080	1,080	1,080	12,957
44	Year 2016 Trued Up	Non Res.	Window Film	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	Year 2017 Trued Up	Res	Air Conditioner Cycling	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(100)	(1,199)
46	Year 2017 Trued Up	Res	Heat Pump Tune-Up	-	-	-	-	-	-	-	-	-	-	-	-	-	-
47	Year 2017 Trued Up	Res	Heat Pump Upgrade	-	-	-	-	-	-	-	-	-	-	-	-	-	-
48	Year 2017 Trued Up	Res	Duct Sealing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
49	Year 2017 Trued Up	Res	Home Energy Check-Up	-	-	-	-	-	-	-	-	-	-	-	-	-	-
50	Year 2017 Trued Up	Non Res.	Duct Testing & Sealing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
51	Year 2017 Trued Up	Non Res.	Energy Audit	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52	Year 2017 Trued Up	Non Res.	Lighting Systems & Controls	1,273	1,273	1,273	1,273	1,273	1,273	1,273	1,273	1,273	1,273	1,273	1,273	1,273	15,281
53	Year 2017 Trued Up	Non Res.	Heating & Cooling Efficiency	341	341	341	341	341	341	341	341	341	341	341	341	341	4,092
54	Year 2017 Trued Up	Non Res.	Window Film	105	105	105	105	105	105	105	105	105	105	105	105	105	1,261
55	Year 2017 Trued Up	Res.	Income and Age Qualifying Home Improve	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56	Year 2017 Trued Up	Non Res.	Qualifying Small Business Improvement	703	703	703	703	703	703	703	703	703	703	703	703	703	8,432
57	Year 2017 Trued Up	Res.	LED Lighting - NC Only	1,028	1,028	1,028	1,028	1,028	1,028	1,028	1,028	1,028	1,028	1,028	1,028	1,028	12,342
58	Year 2018 Trued Up	Res	Air Conditioner Cycling	(176)	(176)	(176)	(176)	(176)	(176)	(176)	(176)	(176)	(176)	(176)	(176)	(176)	(2,112)
59	Year 2018 Trued Up	Res	Heat Pump Tune-Up	-	-	-	-	-	-	-	-	-	-	-	-	-	-
60	Year 2018 Trued Up	Res	Heat Pump Upgrade	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61	Year 2018 Trued Up	Res	Duct Sealing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62	Year 2018 Trued Up	Res	Home Energy Check-Up	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63	Year 2018 Trued Up	Non Res.	Duct Testing & Sealing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
64	Year 2018 Trued Up	Non Res.	Energy Audit	-	-	-	-	-	-	-	-	-	-	-	-	-	-
65	Year 2018 Trued Up	Non Res.	Lighting Systems & Controls	641	641	641	641	641	641	641	641	641	641	641	641	641	7,687
66	Year 2018 Trued Up	Non Res.	Heating & Cooling Efficiency	386	386	386	386	386	386	386	386	386	386	386	386	386	4,635
67	Year 2018 Trued Up	Non Res.	Window Film	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(25)	(306)
68	Year 2018 Trued Up	Res.	Income and Age Qualifying Home Improve	-	-	-	-	-	-	-	-	-	-	-	-	-	-
69	Year 2018 Trued Up	Non Res.	Qualifying Small Business Improvement	467	467	467	467	467	467	467	467	467	467	467	467	467	5,610
70	Year 2018 Trued Up	Res.	LED Lighting - NC Only	3,750	3,750	3,750	3,750	3,750	3,750	3,750	3,750	3,750	3,750	3,750	3,750	3,750	45,000
71	Year 2018 Trued Up	Non Res.	Prescriptive	(557)	(557)	(557)	(557)	(557)	(557)	(557)	(557)	(557)	(557)	(557)	(557)	(557)	(6,679)
72	Year 2019 Trued Up	Res	Air Conditioner Cycling	(32)	(32)	(32)	(32)	(32)	(32)	(32)	(32)	(32)	(32)	(32)	(32)	(32)	(387)
73	Year 2019 Trued Up	Res	Heat Pump Tune-Up	-	-	-	-	-	-	-	-	-	-	-	-	-	-
74	Year 2019 Trued Up	Res	Heat Pump Upgrade	-	-	-	-	-	-	-	-	-	-	-	-	-	-
75	Year 2019 Trued Up	Res	Duct Sealing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
76	Year 2019 Trued Up	Res	Home Energy Check-Up	-	-	-	-	-	-	-	-	-	-	-	-	-	-
77	Year 2019 Trued Up	Non Res.	Duct Testing & Sealing	-	-	-	-	-	-	-	-	-	-	-	-	-	-
78	Year 2019 Trued Up	Non Res.	Energy Audit	-	-	-	-	-	-	-	-	-	-	-	-	-	-
79	Year 2019 Trued Up	Non Res.	Lighting Systems & Controls - NC Only	1,452	1,452	1,452	1,452	1,452	1,452	1,452	1,452	1,452	1,452	1,452	1,452	1,452	17,423
80	Year 2019 Trued Up	Non Res.	Heating & Cooling Efficiency - NC Only	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(119)
81	Year 2019 Trued Up	Non Res.	Window Film	-	-	-	-	-	-	-	-	-	-	-	-	-	-
82	Year 2019 Trued Up	Res.	Income and Age Qualifying Home Improve	-	-	-	-	-	-	-	-	-	-	-	-	-	-
83	Year 2019 Trued Up	Non Res.	Qualifying Small Business Improvement	520	520	520	520	520	520	520	520	520	520	520	520	520	6,243
84	Year 2019 Trued Up	Res.	LED Lighting - NC Only	-	-	-	-	-	-	-	-	-	-	-	-	-	-
85	Year 2019 Trued Up	Non Res.	Prescriptive	(436)	(436)	(436)	(436)	(436)	(436)	(436)	(436)	(436)	(436)	(436)	(436)	(436)	(5,233)
86	Year 2020 Trued Up	Res	Air Conditioner Cycling	(59)	(59)	(59)	(59)	(59)	(59)	(59)	(59)	(59)	(59)	(59)	(59)	(59)	(704)
87	Year 2020 Trued Up	Res	Heat Pump Tune-Up	-	-	-	-	-	-	-	-	-	-	-	-	-	-
88	Year 2020 Trued Up	Res															

Row	Projected by Program Total		Year 2023 Feb	Year 2023 Mar	Year 2023 Apr	Year 2023 May	Year 2023 Jun	Year 2023 Jul	Year 2023 Aug	Year 2023 Sep	Year 2023 Oct	Year 2023 Nov	Year 2023 Dec	Year 2024 Jan	Total
1	DSM I	Res	Lighting	-	-	-	-	-	-	-	-	-	-	-	-
2	DSM I	Res	Air Conditioner Cyc ing	(146)	(146)	(146)	(146)	(146)	(146)	(146)	(146)	(146)	(146)	(146)	(1 746)
3	DSM I	Res	Low Income	-	-	-	-	-	-	-	-	-	-	-	-
4	DSM I	Com	Lighting	-	-	-	-	-	-	-	-	-	-	-	-
5	DSM I	Com	HVAC	-	-	-	-	-	-	-	-	-	-	-	-
6	DSM I	Com	Lighting NC	367	367	367	367	367	367	367	367	367	367	367	4 399
7	DSM I	Com	HVAC Upgrade NC	-	-	-	-	-	-	-	-	-	-	-	-
8	DSM II	Res	Heat Pump Tune-Up	-	-	-	-	-	-	-	-	-	-	-	-
9	DSM II	Res	Heat Pump Upgrade	288	288	288	288	288	288	288	288	288	288	288	3 455
10	DSM II	Res	Duct Sealing	-	-	-	-	-	-	-	-	-	-	-	-
11	DSM II	Res	Home Energy Check-Up	16	16	16	16	16	16	16	16	16	16	16	194
12	DSM II	Non Res.	Duct Testing & Sealing	5 543	5 543	5 543	5 543	5 543	5 543	5 543	5 543	5 543	5 543	5 543	66 517
13	DSM II	Non Res.	Energy Audit	527	527	527	527	527	527	527	527	527	527	527	6 319
14	DSM III	Non Res.	Lighting Systems & Controls	5 101	5 101	5 101	5 101	5 101	5 101	5 101	5 101	5 101	5 101	5 101	61 216
15	DSM III	Non Res.	Heating & Cooling Efficiency	3 279	3 279	3 279	3 279	3 279	3 279	3 279	3 279	3 279	3 279	3 279	39 342
16	DSM III	Non Res.	Window Film	673	673	673	673	673	673	673	673	673	673	673	8 079
17	DSM III	Non Res.	Lighting Systems & Controls - NC Only	1 452	1 452	1 452	1 452	1 452	1 452	1 452	1 452	1 452	1 452	1 452	17 423
18	DSM III	Non Res.	Heating & Cooling Efficiency - NC Only	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(119)
19	DSM IV	Res.	Income and Age Qualifying Home Improve	-	-	-	-	-	-	-	-	-	-	-	-
20	DSM V	Non Res.	Qualifying Small Business Improvement	1 849	1 849	1 849	1 849	1 849	1 849	1 849	1 849	1 849	1 849	1 849	22 188
21	DSM V	Res.	LED Lighting - NC Only	4 779	4 779	4 779	4 779	4 779	4 779	4 779	4 779	4 779	4 779	4 779	57 342
22	DSM VI	Non Res.	Prescriptive	(2 326)	(2 326)	(2 326)	(2 326)	(2 326)	(2 326)	(2 326)	(2 326)	(2 326)	(2 326)	(2 326)	(27 915)
23	DSM VII	Res.	Appliance Recycling	124	124	124	124	124	124	124	124	124	124	124	1 486
24	DSM VII	Res.	Efficient Products Marketplace	4 540	4 540	4 540	4 540	4 540	4 540	4 540	4 540	4 540	4 540	4 540	54 485
25	DSM VII	Res.	Home Energy Assessment	222	222	222	222	222	222	222	222	222	222	222	2 666
26	DSM VII	Non Res.	Lighting Systems & Controls	850	850	850	850	850	850	850	850	850	850	850	10 194
27	DSM VII	Non Res.	Heating & Cooling Efficiency	194	194	194	194	194	194	194	194	194	194	194	2 332
28	DSM VII	Non Res.	Window Film	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(17)	(202)
29	DSM VII	Non Res.	Small Manufacturing	64	64	64	64	64	64	64	64	64	64	64	772
30	DSM VII	Non Res.	Office	30	30	30	30	30	30	30	30	30	30	30	361
31	DSM VIII	Res.	EE Kits	139	139	139	139	139	139	139	139	139	139	139	1 669
32	DSM VIII	Res.	Smart Thermostat - DR	142	142	142	142	142	142	142	142	142	142	142	1 701
33	DSM VIII	Res.	Smart Thermostat - EE	80	80	80	80	80	80	80	80	80	80	80	963
34	DSM VIII	Res.	Home Retrofit	124	124	124	124	124	124	124	124	124	124	124	1 491
35	DSM VIII	Non Res.	New Construction	169	169	169	169	169	169	169	169	169	169	169	2 032
36	DSM VIII	Non Res.	SBI	236	236	236	236	236	236	236	236	236	236	236	2 829
37	DSM IX	Res.	IAQHIP	-	-	-	-	-	-	-	-	-	-	-	-
38	DSM IX	Res.	Smart Home	114	114	114	114	114	114	114	114	114	114	114	1 372
39	DSM IX	Res.	Virtual Audit	164	164	164	164	164	164	164	164	164	164	164	1 966
40	DSM IX	Res.	Water Savings - EE	53	53	53	53	53	53	53	53	53	53	53	641
41	DSM IX	Res.	Water Savings - DR	13	13	13	13	13	13	13	13	13	13	13	156
42	DSM IX	Non Res.	Building Automation	43	43	43	43	43	43	43	43	43	43	43	519
43	DSM IX	Non Res.	Building Optimization	50	50	50	50	50	50	50	50	50	50	50	598
44	DSM IX	Non Res.	Engagement	71	71	71	71	71	71	71	71	71	71	71	853
45	DSM IX	Non Res.	Prescriptive New	197	197	197	197	197	197	197	197	197	197	197	2 367
46	Projected	Total		28 995	28 995	28 995	28 995	28 995	28 995	28 995	28 995	28 995	28 995	28 995	347 946

OFFICIAL COPY

Aug 09 2022

From DSM E-22, Sub 604
 Company Exhibit No. JEB-1
 Schedule 1
 Page 1 of 1

Year 2022

System Program Projected Direct Costs				
Res.	Air Conditioner Cycling		5.0196%	1.0% \$ 2,657
Non Res.	Qualifying Small Business Improvement		5.9979%	1.0% \$ -
Non Res.	Prescriptive		5.9979%	1.0% \$ -
Res.	Appliance Recycling		5.9979%	1.0% \$ 1,099
Res.	Efficient Products Marketplace		5.9979%	1.0% \$ 4,602
Res.	Home Energy Assessment		5.9979%	1.0% \$ 2,993
Non Res.	Lighting Systems & Controls		5.9979%	1.0% \$ 1,350
Non Res.	Heating & Cooling Efficiency		5.9979%	1.0% \$ 1,159
Non Res.	Window Film		5.9979%	1.0% \$ 270
Non Res.	Small Manufacturing		5.9979%	1.0% \$ 756
Non Res.	Office		5.9979%	1.0% \$ 708
Res.	EE Kits		5.9979%	1.0% \$ 1,170
Res.	Smart Thermostat - DR		5.0196%	1.0% \$ 964
Res.	Smart Thermostat - EE		5.9979%	1.0% \$ 724
Res.	Home Retrofit		5.9979%	1.0% \$ 1,139
Non Res.	New Construction		5.9979%	1.0% \$ 1,075
Non Res.	SBI		5.9979%	1.0% \$ 2,219
				<u>\$ 22,886</u>
				\$ 39,332,500

From DSM E-22, Sub 645
 Company Exhibit No. JEB-1
 Schedule 1
 Page 1 of 1

Year 2023

System Program Projected Direct Costs				
Res.	Air Conditioner Cycling		4.7609%	1 0% \$ -
Non Res.	Qualifying Small Business Improvement		5.7877%	1 0% -
Non Res.	Prescriptive		5.7877%	1 0% -
Res.	Appliance Recycling		5.7877%	1 0% 1,061
Res.	Efficient Products Marketplace		5.7877%	1 0% 6,117
Res.	Home Energy Assessment		5.7877%	1 0% 2,946
Non Res.	Lighting Systems & Controls		5.7877%	1 0% -
Non Res.	Heating & Cooling Efficiency		5.7877%	1 0% 1,114
Non Res.	Window Film		5.7877%	1 0% 251
Non Res.	Small Manufacturing		5.7877%	1 0% 755
Non Res.	Office		5.7877%	1 0% 704
Res.	EE Kits		5.7877%	1 0% 1,122
Res.	Smart Thermostat - DR		4.7609%	1 0% 1,059
Res.	Smart Thermostat - EE		5.7877%	1 0% 724
Res.	Home Retrofit		5.7877%	1 0% 1,258
Non Res.	New Construction		5.7877%	1 0% 1,683
Non Res.	SBI		5.7877%	1 0% 2,173
Res.	IAQH P		5.7877%	1 0% -
Res.	Smart Home		5.7877%	1 0% 1,372
Res.	Virtual Audit		5.7877%	1 0% 1,966
Res.	Water Savings - EE		5.7877%	1 0% 641
Res.	Water Savings - DR		4.7609%	1 0% 156
Non Res.	Building Automation		5.7877%	1 0% 519
Non Res.	Building Optimization		5.7877%	1 0% 598
Non Res.	Engagement		5.7877%	1 0% 853
Non Res.	Prescriptive New		5.7877%	1 0% 2,367
				<u>\$ 29,437</u>
				\$ 51,314,450

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Non Res Prescriptive
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 1 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$6,500,427)
5	Jurisdictional Allocation %		5.7877%
6			
7	NC Net Benefit		(\$376,225)
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	(\$55,531)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$3,712	(\$7,845)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Res Appliance Recycle
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 2 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$234,560)
5	Jurisdictional Allocation %		5.7877%
6			
7	NC Net Benefit		(\$13,576)
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	(\$2,004)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$1,073	(\$283)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Res EE Products
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 3 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		\$19,013,518
5	Jurisdictional Allocation %		5.7877%
6			
7	NC Net Benefit		\$1,100,445
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	\$162,426
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$4,259	\$22,947

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Res Home Energy Assessment
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 4 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		
5	Jurisdictional Allocation %		5.7877%
6			
7	NC Net Benefit		(\$96,522)
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	(\$14,247)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$2,858	(\$2,013)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Non Res Lighting & Controls
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 5 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		\$1,594,032
5	Jurisdictional Allocation %		5.7877%
6			
7	NC Net Benefit		\$92,258
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	\$13,617
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$1,318	\$1,924

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Non Res HVAC
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 6 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$300,905)
5	Jurisdictional Allocation %		5.7877%
6			
7	NC Net Benefit		(\$17,415)
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	(\$2,571)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$1,125	(\$363)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Non Res Window Film
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 7 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$325,375)
5	Jurisdictional Allocation %		5.7877%
6			
7	NC Net Benefit		(\$18,832)
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	(\$2,780)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$262	(\$393)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Non Res Small Manufacture
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 8 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$259,452)
5	Jurisdictional Allocation %		5.7877%
6			
7	NC Net Benefit		(\$15,016)
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	(\$2,216)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$743	(\$313)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Non Res Small Office
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 9 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$466,093)
5	Jurisdictional Allocation %		5.7877%
6			
7	NC Net Benefit		(\$26,976)
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	(\$3,982)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$686	(\$563)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Res EE Kits
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 10 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$515,738)
5	Jurisdictional Allocation %		5.7877%
6			
7	NC Net Benefit		(\$29,849)
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	(\$4,406)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$0	(\$622)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Res Smart Thermostat DR
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 11 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$526,996)
5	Jurisdictional Allocation %		4.7609%
6			
7	NC Net Benefit		(\$25,090)
8	NC EE Program Incentive %	9.08%	9.08%
9	NC EE Program Incentive \$	\$0	(\$2,278)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$0	(\$322)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 9.08% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KW verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Res Smart Thermostat EE
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 12 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$402,013)
5	Jurisdictional Allocation %		5.7877%
6			
7	NC Net Benefit		(\$23,267)
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	(\$3,434)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$0	(\$485)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Res Home Retrofit
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 13 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$750,493)
5	Jurisdictional Allocation %		5.7877%
6			
7	NC Net Benefit		(\$43,436)
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	(\$6,411)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$0	(\$906)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Non Res New Construction
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 14 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$601,435)
5	Jurisdictional Allocation %		5.7877%
6			
7	NC Net Benefit		(\$34,809)
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	(\$5,138)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$0	(\$726)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Demand Side Management
 Program Performance Incentive (PPI) Trueup for Year 2021
 Non Res Small Business Enhanced
 Dollars

Company Exhibit JEB-1
 Schedule 6
 Page 15 of 15

Row		Col1 Vintage Year 2021 Planned	Col2 Vintage Year 2021 Actual
1	System Benefits		
2	System Costs		
3	Common Costs		
4	System Net Benefit		(\$1,295,052)
5	Jurisdictional Allocation %		5.7877%
6			
7	NC Net Benefit		(\$74,954)
8	NC EE Program Incentive %	14.76%	14.76%
9	NC EE Program Incentive \$	\$0	(\$11,063)
10			
11	Years to Spread Benefit	10	10
12	Financial Rate	6.83%	6.83%
13	Amortized Benefit	\$0	(\$1,563)

Notes:

- 1 Jurisdictional allocation factors are from Rate Department.
- 2 From the NC Stipulation: 14.76% incentive; 10 year benefit amortization
- 3 The financial rate for the amortization is from the Planning Department.
- 4 Starting in 2015, the Planned Benefit was estimate of 1% of NC program costs

System Benefits:

- 1 Using measure life years from the program summaries in the original DSM case filing.
- 2 Using "KWH verified per unit savings" from EM&V filing
- 3 Counts from EM&V filing.

System Costs:

- 1 Program costs include direct costs.

Row	Column 1	Column 2	Column 3	Column 4	Column 5	Column 6	Column 7	Column 8	Column 9	Column 10	Column 11	Column 12	Column 13
	Year 2021 Jan	Year 2021 Feb	Year 2021 Mar	Year 2021 Apr	Year 2021 May	Year 2021 Jun	Year 2021 Jul	Year 2021 Aug	Year 2021 Sep	Year 2021 Oct	Year 2021 Nov	Year 2021 Dec	12 Month Total
3	Program Costs O&M												
10	\$ 4,115	\$ -	\$ 3,267	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,383
28	\$ 1,679,149	\$ 1,983,629	\$ 2,237,626	\$ 1,676,162	\$ 1,762,378	\$ 2,606,797	\$ 1,293,550	\$ 1,762,765	\$ 1,933,797	\$ 1,702,523	\$ 1,235,685	\$ 1,652,425	\$ 21,526,487
36	\$ -	\$ -	\$ -	\$ 320,004	\$ 310,401	\$ 631,047	\$ 516,153	\$ 820,907	\$ 905,035	\$ 704,392	\$ 467,414	\$ 1,031,567	\$ 5,706,920
66	\$ 782,335	\$ 653,801	\$ 863,937	\$ 448,766	\$ 611,431	\$ 569,999	\$ 548,871	\$ 638,561	\$ 2,263,180	\$ 2,146,320	\$ 3,116,606	\$ 2,861,097	\$ 15,504,905
67	\$ 357,875	\$ 266,870	\$ 257,633	\$ 185,657	\$ 217,192	\$ 304,013	\$ 221,329	\$ 227,395	\$ 195,467	\$ 442,212	\$ 316,349	\$ (87,633)	\$ 2,904,357
70	\$ 4,053,808	\$ 4,239,773	\$ 4,548,927	\$ 3,763,778	\$ 4,585,498	\$ 6,461,027	\$ 3,684,186	\$ 4,789,727	\$ 6,475,476	\$ 6,087,482	\$ 6,232,292	\$ 6,614,240	\$ 61,536,213

OFFICIAL COPY
Aug 09 2022

Notes
 1 This schedule does not include PPI, Lost Revenues or Capital.
 2 The Virginia only costs are for purposes of allocating common costs among programs. Dominion Energy NC is not requesting true up cost recovery for these program in this filing.

**DIRECT TESTIMONY
OF
JUSTIN A. WOOLDRIDGE
ON BEHALF OF
DOMINION ENERGY NORTH CAROLINA
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-22, SUB 645**

1 **Q. Please state your name, position, and business address with Virginia**
2 **Electric and Power Company (“Dominion Energy North Carolina” or the**
3 **“Company”).**

4 A. My name is Justin A. Wooldridge. I am a Regulatory Analyst II in the
5 Regulatory Accounting Department for Dominion Energy North Carolina.
6 My business address is 120 Tredegar Street, Richmond, Virginia 23219. A
7 statement of my background and qualifications is attached as Appendix A.

8 **Q. Please describe your area of responsibility with the Company.**

9 A. I am responsible for analyzing and calculating revenue requirements for
10 Dominion Energy North Carolina.

11 **Q. What is the purpose of your testimony in this proceeding?**

12 A. My testimony supports the Company’s request to recover all reasonable and
13 prudent costs incurred in adopting and implementing the Company’s portfolio
14 of North Carolina demand-side management (“DSM”) and energy efficiency
15 (“EE”) programs (“DSM/EE Programs” or “Programs”) and utility incentives,
16 through its updated Rider C, as well as the Company’s experience
17 modification factor (“EMF”) rider, Rider CE (“Application”).

1 The purpose of my testimony is to address the development of the updated
2 Rider C and Rider CE revenue requirements in support of the Application.
3 Pursuant to North Carolina Utilities Commission (“NCUC” or the
4 “Commission”) Rule R8-69, the Company’s Rider C revenue requirement
5 includes projected costs associated with: (a) the previously-approved Phase I
6 Air Conditioner Cycling Program;¹ (b) the previously-approved Phase VI
7 Non-Residential Prescriptive Program;² (c) the previously-approved Phase VII
8 Programs: Residential Appliance Recycling Program,³ Residential Efficient
9 Products Marketplace Program,⁴ Residential Home Energy Assessment
10 Program,⁵ Non-Residential Lighting Systems & Controls Program,⁶ Non-
11 Residential Heating and Cooling Efficiency Program,⁷ Non-Residential
12 Window Film Program,⁸ Non-Residential Small Manufacturing Program,⁹ and
13 Non-Residential Office Program;¹⁰ (d) the previously-approved Phase VIII
14 Programs: Residential Energy Efficiency Kit Program,¹¹ Residential Smart
15 Thermostat Management (DR) Program,¹² Residential Smart Thermostat
16 Management (EE) Program,¹³ Residential Home Retrofit Program,¹⁴ Non-

¹ Docket No. E-22, Sub 465. All other Phase I programs except the Residential Air Conditioner Cycling Program have previously been concluded.

² Docket No. E-22, Sub 543.

³ Docket No. E-22, Sub 569.

⁴ Docket No. E-22, Sub 568.

⁵ Docket No. E-22, Sub 567.

⁶ Docket No. E-22, Sub 573.

⁷ Docket No. E-22, Sub 574.

⁸ Docket No. E-22, Sub 570.

⁹ Docket No. E-22, Sub 571.

¹⁰ Docket No. E-22, Sub 572.

¹¹ Docket No. E-22, Sub 592.

¹² Docket No. E-22, Sub 594.

¹³ Docket No. E-22, Sub 595.

¹⁴ Docket No. E-22, Sub 593.

1 Residential New Construction Program,¹⁵ and Small Business Improvement
2 Enhanced Program¹⁶; and the previously-approved Phase IX Programs:
3 Residential Income Age Qualifying Program¹⁷ Residential Smart Home
4 Program¹⁸, Residential Virtual Audit Program¹⁹, Residential Water Savings
5 (EE) Program²⁰, Residential Water Savings (DR) Program²¹, Non-Residential
6 Building Automation Program²², Non-Residential Building Optimization
7 Program²³, Non-Residential Engagement Program²⁴, and the Non-Residential
8 Enhanced Prescriptive Program.²⁵

9 Pursuant to Paragraph 28 of the revised Cost Recovery and Incentive
10 Mechanism (“Mechanism”) approved by the Commission’s March 22, 2022
11 Order issued in Docket No. E-22, Sub 464, the Rider CE revenue requirement
12 includes a true-up of the Company’s DSM/EE Rider C rates in effect for the
13 Phase I, Phase III, Phase IV, Phase V, Phase VI Programs, and Phase VII
14 Programs, and the Residential Retail LED Lighting Program, during the 12-
15 month period of January 1, 2021 through December 31, 2021 (“Test Period”).

16 The Rider C and Rider CE revenue requirements presented in this filing are
17 developed in accordance with the Mechanism. Development of these revenue

¹⁵ Docket No. E-22, Sub 591.

¹⁶ Docket No. E-22, Sub 596.

¹⁷ Docket No. E-22, Sub 608.

¹⁸ Docket No. E-22, Sub 618.

¹⁹ Docket No. E-22, Sub 619.

²⁰ Docket No. E-22, Sub 621.

²¹ Docket No. E-22, Sub 620.

²² Docket No. E-22, Sub 614.

²³ Docket No. E-22, Sub 615.

²⁴ Docket No. E-22, Sub 616.

²⁵ Docket No. E-22, Sub 617.

1 requirements is also consistent with development of the revenue requirements
2 approved in the Company's 2012 – 2021 DSM/EE cost recovery proceedings,
3 except as modified to comply with the Mechanism.

4 **Q. Mr. Wooldridge, are you sponsoring any exhibits or schedules in
5 connection with your testimony?**

6 A. Yes. Company Exhibit JAW-1, consisting of Schedules 1 – 3 (Schedules 1
7 and 2 provided in public and confidential versions filed under seal), was
8 prepared under my supervision and direction and is accurate and complete to
9 the best of my knowledge and belief. My Schedule 1 supports the projected
10 rate period revenue requirement for Rider C, and Schedule 2 presents the
11 revenue requirement for EMF Rider CE. Schedule 3 contains my supporting
12 workpapers pursuant to NCUC Rule R8-69(f)(1)(viii).

13 **Q. Please summarize the key components of the two revenue requirements
14 presented in this case.**

15 A. The pre-filed direct testimony of Company Witness Jarvis E. Bates provides
16 the projected costs and Portfolio Performance Incentive (“PPI”) related to
17 each of the previously-identified DSM/EE Programs. I have used those cost
18 projections pursuant to NCUC Rule R8-69 to calculate the expected revenue
19 requirement to be recovered through Rider C, from February 1, 2023 through
20 January 31, 2024, the proposed rate period (the “Rate Period”) in this case. In
21 particular, in order to calculate the projected revenue requirement for Rider C,
22 I incorporated the following cost components: (1) operating expenses
23 projected to be incurred during the Rate Period; (2) capital costs (including

1 related depreciation expense) projected to be incurred during the Rate Period;
2 and (3) PPI projected for the Rate Period pursuant to the revised Mechanism.
3 As noted by Company Witness Michael T. Hubbard, and consistent with the
4 Company's last eight annual cost recovery proceedings,²⁶ the Company is not
5 projecting net lost revenues for the Rate Period in this proceeding. Each of
6 these other cost components will be discussed in more detail later in my
7 testimony.

8 For the DSM/EE EMF Rider CE, I have incorporated actual costs (both
9 capital and O&M components) and PPI as provided by Company Witness
10 Bates for the Test Period. I have also included measured net lost revenues in
11 the Rider CE revenue requirement for the Test Period as described in more
12 detail later in my testimony.

13 **Q. How did you determine what the Rate Period and Test Period should be**
14 **for this proceeding?**

15 A. Pursuant to NCUC Rule R8-69(a), the Rate Period is the same as the period
16 during which the rider established under Commission Rule R8-55, the
17 Company's fuel factor, is in effect. Based on discussions with the Public Staff
18 following the conclusion of the Company's 2017 rider proceedings, the
19 Company is proposing for updated Rider C to be effective for a February 1,
20 2023 through January 31, 2024 Rate Period similar to the rate period approved
21 in the 2021 Cost Recovery Rider proceeding. The Test Period for this

²⁶ Docket No. E-22, Subs 513, 524, 536, 545, 556, 577, 589, 604.

1 proceeding will be the 12-month period ending December 31, 2021, as
2 provided for in Paragraph 28 of the Mechanism.

3 **Q. What capital structure and rate of return on common equity has the**
4 **Company used to calculate the capital related costs for the Test Period**
5 **and Rate Period in this proceeding?**

6 A. Consistent with Paragraph 40 of the Mechanism, the Company has calculated
7 the capital-related costs for the Test Period for the months of January through
8 December 2021 using the actual capital structure and cost of capital for the
9 12-month period ended December 31, 2021, incorporating a 9.75% ROE as
10 approved in the Company's most recent general rate case on February 24,
11 2020, in Docket No. E-22, Sub 562.²⁷ For calculating the projected Rate
12 Period in this proceeding, the Company has utilized the NCUC ES-1 capital
13 structure and cost of capital for the period ending June 30, 2022, incorporating
14 the 9.75% ROE.²⁸

15 **Q. Do the Rider C and Rider CE revenue requirements include recovery of**
16 **net lost revenues?**

17 A. As addressed by Company Witness Hubbard, only Rider CE includes a
18 request to recover measured net lost revenues, as allowed by Commission
19 Rule R8-69(c)(1) and the Mechanism. As noted above, the Company has not
20 projected Rate Period net lost revenues for recovery in this proceeding. Going

²⁷ See *Order Accepting Public Staff Stipulation in Part, Accepting CIGFUR Stipulation, Deciding Contested Issues, and Granting Partial Rate Increase*, Docket No. E-22, Sub 562 (Feb. 24, 2020).

²⁸ As of the date of this filing, the June 30, 2022 NCUC ES-1 Report has not yet been filed; however, the capital structure and cost of capital included in the June 30, 2022 NCUC ES-1 Report reflects the appropriate time period necessary for calculating the projected Rate Period in this proceeding.

1 forward, all net future Test Year lost revenues will be appropriately recovered
2 through a future EMF Rider CE true-up cost recovery factor. As I will discuss
3 in greater detail below, Rider CE provides for the recovery of actual
4 incremental North Carolina jurisdictional kWh energy reductions for the Test
5 Period.

6 **Q. Are there any other limitations on the eligibility of energy savings as a**
7 **result of the Company's approved EE programs to count towards**
8 **recovery of net lost revenues?**

9 A. Paragraph 43 of the Mechanism provides that kWh sales reductions achieved
10 by a measurement unit installed in a given Vintage Year are eligible for use in
11 calculating lost revenues for only the first 36 months after installation of the
12 measurement unit. Further, Paragraph 46 of the Mechanism provides that
13 notwithstanding this 36-month period of kWh sales reductions, any installed
14 measurement unit shall cease being eligible for use in calculating net lost
15 revenues as of the effective date of (a) a Commission-approved alternative
16 cost recovery mechanism that accounts for the eligible recoverable net lost
17 revenues associated with eligible kWh sales reductions, or (b) the
18 implementation of new base rates approved in a general rate case or
19 comparable proceeding to the extent that the rates set in that proceeding are
20 set to explicitly or implicitly recover the net lost revenues associated with an
21 installed measurement unit's kWh sales reductions.

1 **Q. Did the installation of the measurement units used to calculate the actual**
2 **net lost revenues for the Test Period in this filing fall within the 36-month**
3 **limitation provided for under Paragraph 43 of the Mechanism?**

4 A. Yes. As part of the DSM/EE EMF Rider CE, the Company is seeking to
5 recover net lost revenues resulting from measures installed up through the end
6 of the 2021 Test Period.

7 **Q. Has a portion of kWh energy savings associated with previously-installed**
8 **measures already been captured in the Company's non-fuel base rates?**

9 A. Yes. The rates approved in the Company's 2019 general rate case were
10 designed to include the cumulative kWh sales reductions recognized in the net
11 lost revenues related to EE measurement units installed through June 30,
12 2019, to be recovered through base rates beginning on November 1, 2019.
13 Therefore, consistent with Paragraph 46 of the Mechanism, beginning
14 November 1, 2019, the Company excludes from total kWh energy savings, the
15 June 30, 2019 total cumulative monthly level of kWh sales reductions that
16 were incorporated into base rates effective November 1, 2019. The net lost
17 revenues proposed for recovery in this filing for January 1, 2021 through
18 December 31, 2021, include only incremental kWh energy savings resulting
19 from energy efficiency measures installed subsequent to June 30, 2019.

1 **Q. Mr. Wooldridge, can you describe in more detail the projected Rate**
2 **Period revenue requirement to be recovered through Rider C requested**
3 **in this case?**

4 A. Yes. The projected revenue requirement begins with the projected operating
5 expense revenue requirement as reflected on line 1 of page 1 of my Schedule
6 1. The projected operating expenses for the Rate Period, as supported in the
7 pre-filed direct testimony of Company Witness Bates, are presented for
8 current recovery by program on line 1 of page 2 of my Schedule 1. Line 2 of
9 page 2 of my Schedule 1 presents the system level common costs that are
10 allocated to each program in accordance with the methodology described by
11 Company Witness Christopher C. Hewett. The projected operating expenses
12 and proportionate share of common costs for each program are then allocated
13 to the North Carolina jurisdiction using the jurisdictional allocation factors
14 supported by Company Witness Hewett, to derive the projected North
15 Carolina jurisdictional operating expense revenue requirement presented on
16 line 5 of page 3 of my Schedule 1.

17 The second component of the projected Rate Period revenue requirement is
18 the projected capital costs revenue requirement as presented on line 2 of page
19 1 of my Schedule 1. Lines 6 through 9 of page 3 of my Schedule 1 present the
20 projected North Carolina jurisdictional depreciation expense, amortization of
21 the excess deferred income taxes (“EDIT”) that were a result of the Tax Cuts
22 and Jobs Act of 2017 (“TCJA”), property taxes, and rate base costs,
23 respectively, related to the Air Conditioner Cycling Program. The projected

1 rate base for the Rate Period as depicted on page 4 of my Schedule 1 includes
2 the actual system level net plant balances as of June 30, 2022, and projected
3 monthly system level capital expenditures as supported by Company Witness
4 Bates. The Air Conditioner Cycling Program is the only DSM/EE program
5 with capital expenditures being presented for recovery in this current filing.
6 The capital expenditures, projected to be closed to plant-in-service each
7 month, are added to the actual June 30, 2022 plant balance, and accumulated
8 throughout the Rate Period. The projected monthly depreciation expense is
9 projected using a 4.31% annual depreciation factor from the Company's most
10 recent depreciation study. This projected annual depreciation rate factor
11 assumes an estimated depreciable life of 15 years with 0% net salvage and
12 includes interim retirement assumptions. The resulting depreciation expenses
13 projected to be incurred during the Rate Period are included for current
14 recovery as shown on line 5 of page 4 of my Schedule 1, and the projected
15 accumulated depreciation balances are shown as a reduction to average rate
16 base as reflected on line 6 of page 4. The monthly accumulated deferred
17 income taxes ("ADIT"), as supported by my Schedule 3, also serve as
18 monthly reductions to the projected rate base for the Rate Period as reflected
19 on line 8 of page 4 of my Schedule 1. These ADIT balances include the EDIT
20 balances that resulted from the TCJA. These system level projected amounts
21 are then allocated to the North Carolina jurisdiction as explained by Company
22 Witness Hewett in his direct testimony in this proceeding.

1 The projected North Carolina jurisdiction rate base financing costs are
2 determined by multiplying each two-month average rate base for the Rate
3 Period by the Company's cost of capital as presented on line 4 of page 5 of
4 my Schedule 1. As discussed above, for purposes of this Application, the
5 Company has used the capital structure and cost of capital as provided in the
6 Company's forthcoming June 30, 2022 NCUC ES-1 Report, incorporating a
7 rate of return on common equity of 9.75%, which resulted in a weighted
8 average cost of capital of 7.160% as presented on page 5 of my Schedule 1.
9 The equity component for purposes of determining the return on rate base is
10 grossed up to a revenue level in developing the common equity including
11 income taxes revenue requirement on rate base as presented on line 20 of page
12 4 of my Schedule 1.

13 The final component of my Rate Period revenue requirement is the projected
14 PPI revenue requirement shown on line 4 of page 1 of my Schedule 1.
15 Company Witness Bates provides the PPI calculation, which is incorporated
16 into the revenue requirement and reflected on line 11 of page 3 of my
17 Schedule 1.

18 **Q. Please provide an overview of the DSM/EE EMF Rider CE revenue**
19 **requirement.**

20 A. Consistent with Paragraph 37 of the Mechanism, this DSM/EE EMF requests
21 recovery of the "difference between the reasonable and prudent Costs incurred
22 or amortized during the applicable test period and the revenues actually
23 realized during such test period under the DSM/EE rider then in effect." The

1 DSM/EE EMF Rider CE also includes a true up of the PPI and net lost
2 revenues components for this same Test Period. Finally, the DSM/EE EMF
3 Rider CE includes a return on the over- or under-recovery balance up and
4 until the effective date of the Rate Period on February 1, 2023, calculated at
5 the rate of return approved in the Company's most recent general rate case in
6 Docket No. E-22, Sub 562. Commission Rule R8-69(e)(3) provides that the
7 EMF will remain in effect for a fixed 12-month period and will continue as a
8 rider to rates established in any intervening general rate case.

9 **Q. Mr. Wooldridge, can you now describe the details of the DSM/EE EMF**
10 **Rider CE revenue requirement calculation presented on page 1 of your**
11 **Schedule 2?**

12 A. Yes. Page 1 of my Schedule 2 presents the DSM/EE EMF Rider CE revenue
13 requirement requested for recovery during the Rate Period. The monthly
14 revenue requirement on line 1 of page 1 of my Schedule 2 reflects the
15 reasonable and prudent costs actually incurred during the Test Period in this
16 proceeding. This actual monthly revenue requirement is calculated on pages 2
17 and 3 of my Schedule 2 and will be discussed in greater detail below. The
18 actual monthly Rider C revenues included on line 4 of page 1 of my Schedule
19 2 were obtained from the Company's Accounting Department. As first
20 established in the Company's 2013 DSM/EE cost recovery proceeding,
21 pursuant to NCUC Rule R8-69(c)(3), lines 2 and 5 eliminate utility incentives
22 from the calculation of carrying costs on the EMF Test Period over/under-
23 recovery deferral. The net monthly over- or under-recovered amount as

1 presented on line 7 of page 1 of my Schedule 2 will be refunded or collected
2 over the Rate Period. In addition, as prescribed by Rule R8-69(b)(6), carrying
3 costs are calculated on the over- or under-recovered deferral amounts net of
4 utility incentives at the rate of return approved in the Company's most recent
5 general rate case in Docket No. E-22, Sub 562. Also pursuant to Commission
6 Rule R8-69(b)(6), the equity component has been grossed up to reflect the
7 necessary recovery of income taxes. The total carrying costs calculated on the
8 monthly over- or under-recovered amounts net of utility incentives for the
9 Test Period are presented on line 13 of page 1 of my Schedule 2.

10 Also pursuant to Rule R8-69(b)(6), financing costs are calculated for the
11 current EMF Test Period over-recovery amount, exclusive of utility
12 incentives, as presented on line 8 of page 1 of my Schedule 2. Line 15 reflects
13 these carrying costs which are calculated on line 5 of page 6 of my Schedule 2
14 for the deferral period of January 2021 through January 2022 at the net-of-tax
15 rate of return approved in the Company's most recent general rate case in
16 accordance with Rule R8-69(b)(6).

17 The carrying costs net of utility incentives to be collected on line 13 of page 1,
18 net against the related 2020 financing costs on line 15, are offset by the net
19 monthly under-recovered amounts calculated on line 7, to reflect the total
20 DSM/EE EMF Rider CE revenue requirement amount to be recovered over
21 the Rate Period.

- 1 **Q. Please describe the remaining pages of Schedule 2 that support the**
2 **DSM/EE EMF Rider CE revenue requirement presented on page 1 of**
3 **your Schedule 2.**
- 4 A. Pages 2 and 3 of my Schedule 2 present the monthly revenue requirement for
5 the reasonable and prudent costs actually incurred during the Test Period. The
6 actual operating expenses provided by Company Witness Bates for each
7 Program include a proportionate share of Common Costs allocated according
8 to the methodology described by Company Witness Hewett and are included
9 on line 2 of page 2 of my Schedule 2. This Common Cost allocation
10 methodology is in compliance with the Mechanism and is also consistent with
11 the methodology employed in the Company's previous DSM filings. The
12 resulting system level amounts are then allocated to the North Carolina
13 jurisdiction as explained by Company Witness Hewett to derive the North
14 Carolina jurisdictional operating expenses including Common Costs presented
15 on line 5 of page 3 of my Schedule 2. Line 6 of page 3 of my Schedule 2
16 presents the monthly property taxes related to the air conditioner cycling
17 program assets, line 7 presents the actual North Carolina jurisdictional
18 depreciation expense, line 8 presents the amortization of EDIT that resulted
19 from the TCJA, and line 9 shows the return on rate base as calculated on page
20 4 of my Schedule 2. Next, the North Carolina jurisdictional net lost revenues
21 calculated on page 5 of my Schedule 2 are included on line 10 of page 3 of my
22 Schedule 2. Finally, the actual PPI amounts for the Test Period, as calculated
23 by Company Witness Bates, are included on line 11 of page 3 of my Schedule

1 2. The resulting monthly revenue requirement by program calculated on line
2 12 and totaled on line 13 of page 3 of my Schedule 2 reflects the reasonable
3 and prudent costs actually incurred during the Test Period.

4 The revenue requirement on rate base costs for the Test Period is calculated
5 on page 4 of my Schedule 2. Actual monthly net plant balances and ADIT
6 were provided by the Fixed Assets Department and Tax Department,
7 respectively. As explained previously, the ADIT balances include the EDIT
8 balances that resulted from the TCJA. Depreciation expenses incurred during
9 the Test Period are included in the actual costs, and the accumulated balances
10 are shown as a reduction to plant-in-service to derive cumulative system level
11 of net plant as presented on line 4 of page 4 of my Schedule 2. The monthly
12 accumulated deferred income taxes on line 5 of page 4, as supported by my
13 Schedule 3, also serve as monthly reductions to the rate base for the Test
14 Period. These system level amounts are then allocated to the North Carolina
15 jurisdiction as explained by Company Witness Hewett to derive the monthly
16 North Carolina jurisdictional AC Cycling rate base amounts as included on
17 line 8.

18 The 2-month average North Carolina jurisdictional rate base over the Test
19 Period is presented on line 9 of page 4. As described earlier in my testimony,
20 to determine the return on rate base for the Test Period, the 2-month rate base
21 averages on line 9 of page 4 were multiplied by the Company's cost of capital
22 based on the capital structure and cost of capital for the 12-month period
23 ended December 31, 2021, incorporating a rate of return on common equity of

1 9.75% which resulted in a weighted average cost of capital of 7.226%, as
2 presented on line 4 of page 7 of my Schedule 2. The equity component is
3 grossed up to a revenue level for purposes of calculating the revenue
4 requirement on rate base costs during the Test Period as presented on line 17
5 of page 4 of my Schedule 2.

6 Page 5 of my Schedule 2 presents the calculation of the actual net lost
7 revenues for the Test Period, based upon the actual North Carolina
8 jurisdictional energy reductions as presented by Company Witness Edmund J.
9 Hall. Company Witness Casey R. Lawson provides the billing rates applied to
10 these North Carolina jurisdictional net kWh energy savings as presented on
11 line 2 of page 5 of my Schedule 2. The actual net lost revenues are then
12 reduced for variable O&M savings and found revenues. The variable O&M
13 savings presented on line 4 of page 5 were provided by the Company's
14 Integrated Resource Planning Department. As discussed by Company
15 Witness Hubbard, there were no actual found revenues for the Test Period as
16 indicated on line 5 of page 5 of my Schedule 2. Line 6 of page 5 provides the
17 net lost revenues by program for the Test Period.

18 As previously mentioned, page 6 of my Schedule 2 presents the calculation of
19 financing costs on the Rider CE net of utility incentives over-recovery to be
20 refunded over the Rate Period, pursuant to NCUC Rules R8-69(b)(3) and (6),
21 and Paragraph 39 of the Mechanism.

1 **Q. What is the total revenue requirement for Riders C and CE?**

2 A. As summarized on page 1 of my Schedule 1, the Company is requesting
3 recovery of projected operating expenses of \$3,569,957, and a projected
4 capital cost revenue requirement of \$67,220. These amounts combined with
5 the projected PPI of \$347,946 provide for a total Rider C revenue requirement
6 of \$3,985,123.

7 As depicted on page 1 of my Schedule 2, the Rider CE revenue requirement
8 presents the amount of \$982,099, which will be recovered by the Company
9 over the Rate Period. The combined revenue requirements for the two riders,
10 Rider C and Rider CE, for the Rate Period totals \$4,967,222, representing a
11 \$2,095,890 increase from the rates currently in effect.

12 **Q. Does this conclude your pre-filed direct testimony?**

13 A. Yes, it does.

**BACKGROUND AND QUALIFICATIONS
OF
JUSTIN A. WOOLDRIDGE**

Justin A. Wooldridge graduated from Virginia Tech in May 2015 with a dual Bachelor of Science degrees in Finance and Accounting. Shortly after graduation, he joined the Company's Regulatory Accounting Department as a Regulatory Analyst I. Within that role he was responsible for several tasks including the preparation, analyzation and review of the annual Cost of Service used in Base Rate proceedings. His current position of Regulatory Analyst II includes responsibility for analyzing and calculating revenue requirements for Dominion Energy Virginia rate proceedings.

Dominion Energy North Carolina
Docket No. E-22, Sub 645
Projected Revenue Requirement for DSM/EE Rider C
For the Rate Period February 1, 2023 - January 31, 2024

<u>line no.</u>	<u>Rider C</u>	<u>Item Location / Formula</u>
1 Projected Operating Expense Revenue Requirement	\$ 3,569,957	Sch 1, Page 3, Line 5
2 Projected Capital Costs Revenue Requirement	\$ 67,220	Sch 1, Page 3, Line 6 + Line 7 + Line 8 + Line 9
3 Projected Net Lost Revenues	\$ -	Sch 1, Page 3, Line 10
4 Projected Program Performance Incentive Revenue Requirement	<u>\$ 347,946</u>	Sch 1, Page 3, Line 11
5 Total Revenue Requirement	\$ 3,985,123	Line 1 + Line 2 + Line 3 + Line 4

**Dominion Energy North Carolina
Docket No. E 22, Sub 645
Projected Revenue Requirement for DSM/EE Rider C
For the Rate Period February 1, 2023 January 31, 2024**

CONFIDENTIAL INFORMATION REDACTED

line no.		Project on Feb 23	Project on Mar 23	Projection Apr 23	Projection on Mar 23	Projection on Jul 23	Projection on Aug 23	Projection on Sep 23	Projection on Oct 23	Projection on Nov 23	Projection on Dec 23	Projection on Jan 24	Rate Per unit	total
1	System Program Projected Operating Expenses													
	Phase I Air Condition Cycling Program													
	Phase IV Residential Income and Age Qualifying Home Improvement Program													
	Phase V Qualifying Small Business Improvement Program													
	Phase V Residential LED Lighting - NC Only													
	Phase VI Non-Residential Prescriptive Program													
	Phase VII Residential Appliances Recycling Program													
	Phase VIII Residential Energy Assessment Program													
	Phase VII Residential Home Energy Assessment Program													
	Phase VII Non-Residential Lighting Systems & Controls Program													
	Phase VII Non-Residential Heating & Cooling Efficiency Program													
	Phase VII Non-Residential Window Film Program													
	Phase VII Non-Residential Small Manufacturing Program													
	Phase VII Non-Residential Office Program													
	Phase VII Residential Energy Efficient Kits Program													
	Phase VII Residential Smart Thermostat Program (DR)													
	Phase VII Residential Smart Thermostat Program (EE)													
	Phase VII Residential Home Retrofit Program													
	Phase VII Non-Residential New Construction Program													
	Phase VII Non-Residential Small Business Improvement Program													
	Phase X Residential Income Age Qualifying Home Improvement Program													
	Phase X Residential Virtual Adult Program													
	Phase X Residential Water Savings Program (EE)													
	Phase X Residential Water Savings Program (DR)													
	Phase X Non-Residential Building Automation Program													
	Phase X Non-Residential Building Optimization Program													
	Phase X Non-Residential Engagement Program													
	Phase X Non-Residential Prescriptive Program													
2	Allocate System Common Costs to Programs													
	Phase I Air Condition Cycling Program	\$ 513	\$ 513	\$ 513	\$ 513	\$ 513	\$ 513	\$ 513	\$ 513	\$ 513	\$ 513	\$ 513	\$ 513	\$ 61,606
	Phase IV Residential Income and Age Qualifying Home Improvement Program	-	-	-	-	-	-	-	-	-	-	-	-	-
	Phase V Qualifying Small Business Improvement Program	-	-	-	-	-	-	-	-	-	-	-	-	-
	Phase V Residential LED Lighting - NC Only	-	-	-	-	-	-	-	-	-	-	-	-	-
	Phase VI Non-Residential Prescriptive Program	229	229	229	229	229	229	229	229	229	229	229	229	2,783
	Phase VII Residential Appliances Recycling Program	8,12	8,12	8,12	8,12	8,12	8,12	8,12	8,12	8,12	8,12	8,12	8,12	100,846
	Phase VII Residential Energy Assessment Program	8,85	8,85	8,85	8,85	8,85	8,85	8,85	8,85	8,85	8,85	8,85	8,85	981,920
	Phase VII Residential Home Energy Assessment Program	233.8	233.8	233.8	233.8	233.8	233.8	233.8	233.8	233.8	233.8	233.8	233.8	280,176
	Phase VII Non-Residential Lighting Systems & Controls Program	59	59	59	59	59	59	59	59	59	59	59	59	6,906
	Phase VII Non-Residential Heating & Cooling Efficiency Program	8,828	8,828	8,828	8,828	8,828	8,828	8,828	8,828	8,828	8,828	8,828	8,828	105,936
	Phase VII Non-Residential Window Film Program	1,988	1,988	1,988	1,988	1,988	1,988	1,988	1,988	1,988	1,988	1,988	1,988	23,854
	Phase VII Non-Residential Small Manufacturing Program	5,987	5,987	5,987	5,987	5,987	5,987	5,987	5,987	5,987	5,987	5,987	5,987	71,844
	Phase VII Non-Residential Office Program	5,583	5,583	5,583	5,583	5,583	5,583	5,583	5,583	5,583	5,583	5,583	5,583	66,994
	Phase VII Residential Energy Efficient Kits Program	8,890	8,890	8,890	8,890	8,890	8,890	8,890	8,890	8,890	8,890	8,890	8,890	106,688
	Phase VII Residential Smart Thermostat Program (DR)	10,201	10,201	10,201	10,201	10,201	10,201	10,201	10,201	10,201	10,201	10,201	10,201	122,411
	Phase VII Residential Smart Thermostat Program (EE)	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	68,880
	Phase VII Residential Home Retrofit Program	9,969	9,969	9,969	9,969	9,969	9,969	9,969	9,969	9,969	9,969	9,969	9,969	119,630
	Phase VII Non-Residential New Construction Program	13,339	13,339	13,339	13,339	13,339	13,339	13,339	13,339	13,339	13,339	13,339	13,339	160,962
	Phase VII Non-Residential Small Business Improvement Program	17.22	17.22	17.22	17.22	17.22	17.22	17.22	17.22	17.22	17.22	17.22	17.22	206,683
	Phase X Residential Income Age Qualifying Home Improvement Program	33,607	33,607	33,607	33,607	33,607	33,607	33,607	33,607	33,607	33,607	33,607	33,607	403,291
	Phase X Residential Virtual Adult Program	10,87	10,87	10,87	10,87	10,87	10,87	10,87	10,87	10,87	10,87	10,87	10,87	130,493
	Phase X Residential Water Savings Program (EE)	15,581	15,581	15,581	15,581	15,581	15,581	15,581	15,581	15,581	15,581	15,581	15,581	189,967
	Phase X Residential Water Savings Program (DR)	5,079	5,079	5,079	5,079	5,079	5,079	5,079	5,079	5,079	5,079	5,079	5,079	60,949
	Phase X Non-Residential Building Automation Program	1,505	1,505	1,505	1,505	1,505	1,505	1,505	1,505	1,505	1,505	1,505	1,505	18,062
	Phase X Non-Residential Building Optimization Program	-113	-113	-113	-113	-113	-113	-113	-113	-113	-113	-113	-113	-89,361
	Phase X Non-Residential Engagement Program	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	86,876
	Phase X Non-Residential Prescriptive Program	6,76	6,76	6,76	6,76	6,76	6,76	6,76	6,76	6,76	6,76	6,76	6,76	81,171
		18,758	18,758	18,758	18,758	18,758	18,758	18,758	18,758	18,758	18,758	18,758	18,758	225,096
3	System Program Operating Expenses Including Allocated Common Costs													
	Phase I Air Condition Cycling Program													
	Phase IV Residential Income and Age Qualifying Home Improvement Program													
	Phase V Qualifying Small Business Improvement Program													
	Phase V Residential LED Lighting - NC Only													
	Phase VI Non-Residential Prescriptive Program													
	Phase VII Residential Appliances Recycling Program													
	Phase VII Residential Energy Assessment Program													
	Phase VII Residential Home Energy Assessment Program													
	Phase VII Non-Residential Lighting Systems & Controls Program													
	Phase VII Non-Residential Heating & Cooling Efficiency Program													
	Phase VII Non-Residential Window Film Program													
	Phase VII Non-Residential Small Manufacturing Program													
	Phase VII Non-Residential Office Program													
	Phase VII Residential Energy Efficient Kits Program													
	Phase VII Residential Smart Thermostat Program (DR)													
	Phase VII Residential Smart Thermostat Program (EE)													
	Phase VII Residential Home Retrofit Program													
	Phase VII Non-Residential New Construction Program													
	Phase VII Non-Residential Small Business Improvement Program													
	Phase X Residential Income Age Qualifying Home Improvement Program													
	Phase X Residential Virtual Adult Program													
	Phase X Residential Water Savings Program (EE)													
	Phase X Residential Water Savings Program (DR)													
	Phase X Non-Residential Building Automation Program													
	Phase X Non-Residential Building Optimization Program													
	Phase X Non-Residential Engagement Program													
	Phase X Non-Residential Prescriptive Program													
	unconditional Assignment Factors													
	Phase I Air Condition Cycling Program	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%
	Phase IV Residential Income and Age Qualifying Home Improvement Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase V Qualifying Small Business Improvement Program	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%	100.0000%
	Phase V Residential LED Lighting - NC Only	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase VI Non-Residential Prescriptive Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase VII Residential Appliances Recycling Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase VII Residential Energy Assessment Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase VII Residential Home Energy Assessment Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase VII Non-Residential Lighting Systems & Controls Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase VII Non-Residential Heating & Cooling Efficiency Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase VII Non-Residential Window Film Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase VII Non-Residential Small Manufacturing Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase VII Non-Residential Office Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase VII Residential Energy Efficient Kits Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase VII Residential Smart Thermostat Program (DR)	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%
	Phase VII Residential Smart Thermostat Program (EE)	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase VII Residential Home Retrofit Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase VII Non-Residential New Construction Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase VII Non-Residential Small Business Improvement Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase X Residential Income Age Qualifying Home Improvement Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase X Residential Virtual Adult Program	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase X Residential Water Savings Program (EE)	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%	7609%
	Phase X Residential Water Savings Program (DR)	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%	5.7877%
	Phase X Non-Residential Building Automation Program	5.7877%	5.7877%											

Dominion Energy North Carolina
Docket No. E 22, Sub 645
Projected Revenue Requirement for DSM/EE Rider C
For the Rate Period February 1, 2023 January 31, 2024

CONFIDENTIAL INFORMATION REDACTED

Table with columns: line no., Project on Feb 23, Project on Mar 23, Project on Apr 23, Project on May 23, Project on Jun 23, Project on Jul 23, Project on Aug 23, Project on Sep 23, Project on Oct 23, Project on Nov 23, Project on Dec 23, Project on Jan 24, Rate Per od total. Rows include categories like Projected NC jurisdiction Operating Expenses, Projected NC jurisdiction Excess Deferred Income, Projected NC jurisdiction Property Taxes, Projected NC jurisdiction Rate Base Costs, NC jurisdiction Projected Net Lost Revenues, and Projected Revenue Requirement.

\$ 332 451 \$ 332 432 \$ 332 412 \$ 332 391 \$ 332 370 \$ 332 348 \$ 331 644 \$ 331 621 \$ 331 798 \$ 331 774 \$ 331 750 \$ 331 732 \$ 3 985 123

OFFICIAL COPY
Aug 09 2022

**Dominion Energy North Carolina
 Docket No. E-22, Sub 645
 Revenue Requirement for DSM/EE Rider C
 Projected Rate Base Cost For the Period June 1, 2022 - January 31, 2024**

line no.	Actual Jun-22	Projection Jul-22	Projection Aug-22	Projection Sep-22	Projection Oct-22	Projection Nov-22	Projection Dec-22	Projection Jan-23	Projection Feb-23	Projection Mar-23	Projection Apr-23	Projection May-23	Projection Jun-23	Projection Jul-23	Projection Aug-23	Projection Sep-23	Projection Oct-23	Projection Nov-23	Projection Dec-23	Projection Jan-24	
1 System Level Actual Plant in Service																					
Air Conditioner Cycling Program	\$ 19,849,594																				
2 Projected Capital Expenditures																					
Air Conditioner Cycling Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3 Cumulative Gross Plant (Line 1 + Line 2)																					
Air Conditioner Cycling Program	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594	\$ 19,849,594
4 Monthly Depreciation Percentages																					
Air Conditioner Cycling Program	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%	0.3592%
5 Projected System Monthly Depreciation Expense (Line 3 Line 4)																					
Air Conditioner Cycling Program		\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293	\$ 71,293
6 Actual/Projected System Level of Accumulated Depreciation																					
Air Conditioner Cycling Program	\$ 12,542,109	\$ 12,613,402	\$ 12,684,695	\$ 12,755,988	\$ 12,827,281	\$ 12,898,574	\$ 12,969,868	\$ 13,041,161	\$ 13,112,454	\$ 13,183,747	\$ 13,255,040	\$ 13,326,333	\$ 13,397,626	\$ 13,468,919	\$ 13,540,213	\$ 13,611,506	\$ 13,682,799	\$ 13,754,092	\$ 13,825,385	\$ 13,896,678	\$ 13,967,971
7 Actual/Projected Cumulative Net Plant (Line 3 Line 6)																					
Air Conditioner Cycling Program	\$ 7,307,485	\$ 7,236,192	\$ 7,164,899	\$ 7,093,606	\$ 7,022,313	\$ 6,951,020	\$ 6,879,726	\$ 6,808,433	\$ 6,737,140	\$ 6,665,847	\$ 6,594,554	\$ 6,523,261	\$ 6,451,968	\$ 6,380,675	\$ 6,309,381	\$ 6,238,088	\$ 6,166,795	\$ 6,095,502	\$ 6,024,209	\$ 5,952,916	\$ 5,881,623
8 Actual/Projected Accumulated Deferred Income Tax¹																					
Air Conditioner Cycling Program	\$ (1,193,958)	\$ (1,175,369)	\$ (1,156,780)	\$ (1,138,192)	\$ (1,119,604)	\$ (1,101,014)	\$ (1,082,426)	\$ (1,063,838)	\$ (1,046,398)	\$ (1,030,620)	\$ (1,016,348)	\$ (1,003,635)	\$ (992,427)	\$ (982,777)	\$ (974,685)	\$ (968,098)	\$ (963,069)	\$ (959,547)	\$ (957,582)	\$ (957,166)	\$ (957,166)
9 Monthly Actual/Projected Rate Base (Line 7 + Line 8):																					
Air Conditioner Cycling Program	\$ 6,113,528	\$ 6,060,823	\$ 6,008,119	\$ 5,955,414	\$ 5,902,709	\$ 5,850,005	\$ 5,797,300	\$ 5,744,700	\$ 5,690,742	\$ 5,635,227	\$ 5,578,206	\$ 5,519,626	\$ 5,459,540	\$ 5,397,897	\$ 5,334,696	\$ 5,269,990	\$ 5,203,726	\$ 5,135,955	\$ 5,066,627	\$ 4,995,750	\$ 4,924,873
10 Jurisdictional Allocation Factors																					
Air Conditioner Cycling Program	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%
11 North Carolina Actual/Projected Rate Base (Line 9 x Line 10)																					
Air Conditioner Cycling Program	\$ 291,059	\$ 288,550	\$ 286,041	\$ 283,531	\$ 281,022	\$ 278,513	\$ 276,004	\$ 273,499	\$ 270,931	\$ 268,288	\$ 265,573	\$ 262,784	\$ 259,923	\$ 256,988	\$ 253,980	\$ 250,899	\$ 247,744	\$ 244,518	\$ 241,217	\$ 237,843	\$ 234,469
12 Rate Base (2 month average)																					
Cost of Capital	\$ 272,215	\$ 269,609	\$ 266,930	\$ 264,178	\$ 261,354	\$ 258,456	\$ 255,484	\$ 252,439	\$ 249,322	\$ 246,131	\$ 242,867	\$ 239,530	\$ 236,125	\$ 232,656	\$ 229,123	\$ 225,516	\$ 221,836	\$ 218,083	\$ 214,257	\$ 210,359	\$ 206,389
14 Net Operating Income																					
Less Interest Expense LTD									0.1646%	0.1646%	0.1646%	0.1646%	0.1646%	0.1646%	0.1646%	0.1646%	0.1646%	0.1646%	0.1646%	0.1646%	0.1646%
Weighted Cost of Debt									\$ 272,215	\$ 269,609	\$ 266,930	\$ 264,178	\$ 261,354	\$ 258,456	\$ 255,484	\$ 252,439	\$ 249,322	\$ 246,131	\$ 242,867	\$ 239,530	\$ 236,125
Rate Base									\$ 1,624	\$ 1,609	\$ 1,593	\$ 1,576	\$ 1,560	\$ 1,542	\$ 1,524	\$ 1,506	\$ 1,488	\$ 1,469	\$ 1,449	\$ 1,429	\$ 1,409
17 Revenue Requirement Interest Expense on Debt									\$ 448	\$ 444	\$ 439	\$ 435	\$ 430	\$ 425	\$ 420	\$ 415	\$ 410	\$ 405	\$ 400	\$ 394	\$ 389
18 Net Income Related to Common Equity									\$ 1,176	\$ 1,165	\$ 1,153	\$ 1,142	\$ 1,129	\$ 1,117	\$ 1,104	\$ 1,091	\$ 1,077	\$ 1,064	\$ 1,049	\$ 1,035	\$ 1,020
19 North Carolina Jurisdictional Income Tax Gross up Factor									74.47%	74.47%	74.47%	74.47%	74.47%	74.47%	74.47%	74.47%	74.47%	74.47%	74.47%	74.47%	74.47%
20 Revenue Requirement Common Equity Including Income Taxes									\$ 1,580	\$ 1,565	\$ 1,549	\$ 1,533	\$ 1,517	\$ 1,500	\$ 1,483	\$ 1,465	\$ 1,447	\$ 1,428	\$ 1,409	\$ 1,390	\$ 1,371
21 Revenue Requirement on Rate Base (Line 17 + Line 20)									\$ 2,028	\$ 2,008	\$ 1,988	\$ 1,968	\$ 1,947	\$ 1,925	\$ 1,903	\$ 1,880	\$ 1,857	\$ 1,833	\$ 1,809	\$ 1,784	\$ 1,760

¹ Includes Excess Deferred Income Tax balance

OFFICIAL COPY
Aug 09 2022

For Collection During the Rate Period February 1, 2023 - January 31, 2024

**Cost of Capital and Capital Structure (000s)
As of June 30, 2022**

line
no.

Description	Average Capitalization	Average Capitalization Ratio	Average Embedded Cost%	Overall Cost Rate
1 Total Long-Term Debt	\$13,977,719	46.816%	4.219%	1.975%
2 Total Preferred Stock	\$0	0.000%	0.000%	0.000%
3 Common Equity	\$15,878,755	53.184%	9.750%	5.185%
4 Total	<u>\$29,856,474</u>	<u>100.000%</u>		<u>7.160%</u>

**Dominion Energy North Carolina
Docket No. E-22, Sub 645
Projected Revenue Requirement For DSM/EE Rider C
For the Rate Period February 1, 2023 - January 31, 2024**

OFFICIAL COPY

Aug 09 2022

R8-69 (f)(1)(ii)(a) System Rate Period Revenue Requirement per Program (excludes net lost revenue)

Program	O&M (1)	Depreciation Expense	Cost of Capital	Utility Incentives	Total Costs and Incentives
Air Conditioner Cycling Program		\$855,518	\$481,654	(\$36,675)	
Residential NC Only Low Income Program		\$0	\$0	\$0	
Commercial HVAC Upgrade Program		\$0	\$0	\$0	
Commercial Lighting Program		\$0	\$0	\$76,011	
Residential Heat Pump Tune-up Program		\$0	\$0	\$0	
Residential Heat Pump Upgrade Program		\$0	\$0	\$59,689	
Residential Duct Testing & Sealing Program		\$0	\$0	\$0	
Residential Home Energy Check-Up Program		\$0	\$0	\$3,359	
Non-Residential Duct Testing & Sealing Program		\$0	\$0	\$1,149,290	
Non-Residential Energy Audit Program		\$0	\$0	\$109,175	
Non-Residential Window Film Program (NC Only)		\$0	\$0	\$139,584	
Non-Residential Heating & Cooling Efficiency Program (NC Only)		\$0	\$0	\$677,693	
Non-Residential Lighting Systems & Controls Program (NC Only)		\$0	\$0	\$1,358,731	
Residential Income and Age Qualifying Home Improvement Program		\$0	\$0	\$0	
Qualifying Small Business Improvement Program		\$0	\$0	\$383,361	
Residential LED Lighting - NC Only		\$0	\$0	\$57,342	
Non-Residential Prescriptive Program		\$0	\$0	(\$482,311)	
Residential Appliance Recycling Program		\$0	\$0	\$25,671	
Residential Customer Engagement Program		\$0	\$0	\$0	
Residential Efficient Products Marketplace Program		\$0	\$0	\$941,399	
Residential Home Energy Assessment Program		\$0	\$0	\$46,062	
Residential Smart Thermostat - DR Program		\$0	\$0	\$0	
Residential Smart Thermostat - EE Program		\$0	\$0	\$0	
Non-Residential Lighting Systems & Controls Program		\$0	\$0	\$176,133	
Non-Residential Heating & Cooling Efficiency Program		\$0	\$0	\$40,300	
Non-Residential Window Film Program		\$0	\$0	(\$3,483)	
Non-Residential Small Manufacturing Program		\$0	\$0	\$13,339	
Non-Residential Office Program		\$0	\$0	\$6,244	
Residential Energy Efficient Kits Program		\$0	\$0	\$28,844	
Residential Smart Thermostat Program (DR)		\$0	\$0	\$35,720	
Residential Smart Thermostat (EE)		\$0	\$0	\$16,640	
Residential Home Retrofit Program		\$0	\$0	\$25,758	
Non Residential New Construction Program		\$0	\$0	\$35,103	
Non Residential Small Business Improvement Program		\$0	\$0	\$48,883	
Residential Income Age Qualifying Home Improvement Program		\$0	\$0	\$0	
Residential Smart Home Program		\$0	\$0	\$23,704	
Residential Virtual Adult Program		\$0	\$0	\$33,963	
Residential Water Savings Program (EE)		\$0	\$0	\$11,071	
Residential Water Savings Program (DR)		\$0	\$0	\$3,281	
Non-Residential Building Automation Program		\$0	\$0	\$8,966	
Non-Residential Building Optimization Program		\$0	\$0	\$10,331	
Non-Residential Engagement Program		\$0	\$0	\$14,745	
Non-Residential Prescriptive Program		\$0	\$0	\$40,889	
Common Costs	\$2,085,803				\$2,085,803

R8-69 (f)(1)(ii)(a) North Carolina Jurisdictional Rate Period Revenue Requirement per Program (excludes net lost revenue)

Program	O&M (1)	Depreciation Expense (2)	Cost of Capital	Utility Incentives	Total Costs and Incentives
Residential Lighting Program (PPI Only)		\$0	\$0	\$0	
Air Conditioner Cycling Program		\$36,502	\$22,931	(\$1,746)	
Residential NC Only Low Income Program		\$0	\$0	\$0	
Commercial HVAC Upgrade Program		\$0	\$0	\$0	
Commercial Lighting Program		\$0	\$0	\$4,399	
Residential Heat Pump Tune-up Program		\$0	\$0	\$0	
Residential Heat Pump Upgrade Program		\$0	\$0	\$3,455	
Residential Duct Testing & Sealing Program		\$0	\$0	\$0	
Residential Home Energy Check-Up Program		\$0	\$0	\$194	
Non-Residential Duct Testing & Sealing Program		\$0	\$0	\$66,517	
Non-Residential Energy Audit Program		\$0	\$0	\$6,319	
Non-Residential Window Film Program (NC Only)		\$0	\$0	\$8,079	
Non-Residential Heating & Cooling Efficiency Program (NC Only)		\$0	\$0	\$39,223	
Non-Residential Lighting Systems & Controls Program (NC Only)		\$0	\$0	\$78,639	
Residential Income and Age Qualifying Home Improvement Program		\$0	\$0	\$0	
Qualifying Small Business Improvement Program		\$0	\$0	\$22,188	
Residential LED Lighting - NC Only		\$0	\$0	\$57,342	
Non-Residential Prescriptive Program		\$0	\$0	(\$27,915)	
Residential Appliance Recycling Program		\$0	\$0	\$1,486	
Residential Customer Engagement Program		\$0	\$0	\$0	
Residential Efficient Products Marketplace Program		\$0	\$0	\$54,485	
Residential Home Energy Assessment Program		\$0	\$0	\$2,666	
Residential Smart Thermostat - DR Program		\$0	\$0	\$0	
Residential Smart Thermostat - EE Program		\$0	\$0	\$0	
Non-Residential Lighting Systems & Controls Program		\$0	\$0	\$10,194	
Non-Residential Heating & Cooling Efficiency Program		\$0	\$0	\$2,332	
Non-Residential Window Film Program		\$0	\$0	(\$202)	
Non-Residential Small Manufacturing Program		\$0	\$0	\$772	
Non-Residential Office Program		\$0	\$0	\$361	
Residential Energy Efficient Kits Program		\$0	\$0	\$1,669	
Residential Smart Thermostat Program (DR)		\$0	\$0	\$1,701	
Residential Smart Thermostat (EE)		\$0	\$0	\$963	
Residential Home Retrofit Program		\$0	\$0	\$1,491	
Non Residential New Construction Program		\$0	\$0	\$2,032	
Non Residential Small Business Improvement Program		\$0	\$0	\$2,829	
Residential Income Age Qualifying Home Improvement Program		\$0	\$0	\$0	
Residential Smart Home Program		\$0	\$0	\$1,372	
Residential Virtual Adult Program		\$0	\$0	\$1,966	
Residential Water Savings Program (EE)		\$0	\$0	\$641	
Residential Water Savings Program (DR)		\$0	\$0	\$156	
Non-Residential Building Automation Program		\$0	\$0	\$519	
Non-Residential Building Optimization Program		\$0	\$0	\$598	
Non-Residential Engagement Program		\$0	\$0	\$853	
Non-Residential Prescriptive Program		\$0	\$0	\$2,367	

(1) O&M Includes AC Cycling Property Taxes
(2) Depreciation Expense includes EDIT Amortization

Dominion Energy North Carolina
Docket No. E-22, Sub 645
DSM/EE Experience Modification Factor (Rider CE) for the Test Period January 1, 2021 through December 31, 2021
For (Refund)/Recovery in the Rate Period February 1, 2023 - January 31, 2024

line no.	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Rider CE Total
1 Monthly Revenue Requirement (Page 3; Line 13)	\$ 241,971	\$ 262,060	\$ 272,885	\$ 252,217	\$ 291,850	\$ 399,193	\$ 244,575	\$ 304,156	\$ 313,617	\$ 293,094	\$ 250,775	\$ 289,724	\$ 3,416,117
2 Less: Portion Related to Utility Incentives (Page 3, Lines 10 & 11)	\$ (49,584)	\$ (52,961)	\$ (55,395)	\$ (57,398)	\$ (59,408)	\$ (65,587)	\$ (68,092)	\$ (69,065)	\$ (70,714)	\$ (66,223)	\$ (67,531)	\$ (69,159)	\$ (751,116)
3 Monthly Revenue Requirement Net of Incentives (Line 1 + Line 2)	\$ 192,387	\$ 209,099	\$ 217,490	\$ 194,819	\$ 232,441	\$ 333,606	\$ 176,484	\$ 235,091	\$ 242,904	\$ 226,871	\$ 183,244	\$ 220,565	\$ 2,665,001
4 Monthly Rider C Revenues	\$ 275,463	\$ 300,062	\$ 164,523	\$ 86,093	\$ 174,517	\$ 194,714	\$ 270,807	\$ 229,277	\$ 199,613	\$ 184,590	\$ 239,623	\$ 162,910	\$ 2,482,193
5 Less: Portion Related to Utility Incentives (Rev Req in Previous Rider C Filings)	\$ (28,999)	\$ (36,989)	\$ (20,281)	\$ (10,613)	\$ (21,513)	\$ (24,002)	\$ (33,383)	\$ (28,263)	\$ (24,606)	\$ (22,755)	\$ (29,539)	\$ (20,082)	\$ (301,024)
6 Monthly Rider C Revenues Net of Incentives (Line 4 + Line 5)	\$ 246,464	\$ 263,073	\$ 144,243	\$ 75,481	\$ 153,004	\$ 170,711	\$ 237,424	\$ 201,014	\$ 175,007	\$ 161,836	\$ 210,085	\$ 142,828	\$ 2,181,169
7 Monthly (Over)/Under Recovery Before Carrying Costs (Line 1 - Line 4)	\$ (33,492)	\$ (38,002)	\$ 108,362	\$ 166,124	\$ 117,333	\$ 204,479	\$ (26,231)	\$ 74,879	\$ 114,004	\$ 108,504	\$ 11,151	\$ 126,814	\$ 933,924
8 Monthly (Over)/Under Recovery Excluding Utility Incentives (Line 3 - Line 6)	\$ (54,077)	\$ (53,974)	\$ 73,248	\$ 119,338	\$ 79,437	\$ 162,895	\$ (60,940)	\$ 34,078	\$ 67,897	\$ 65,036	\$ (26,841)	\$ 77,737	\$ 483,832
9 Deferred Income Tax	\$ (13,808)	\$ (13,782)	\$ 18,703	\$ 30,472	\$ 20,283	\$ 41,594	\$ (15,561)	\$ 8,701	\$ 17,337	\$ 16,606	\$ (6,854)	\$ 19,849	\$ 123,542
10 Net Monthly (Over)/Under Recovery Net of ADIT and Incentives (Line 8 - Line 9)	\$ (40,269)	\$ (40,193)	\$ 54,545	\$ 88,866	\$ 59,154	\$ 121,301	\$ (45,380)	\$ 25,376	\$ 50,560	\$ 48,430	\$ (19,988)	\$ 57,888	\$ 360,291
11 Cumulative Net Monthly (Over)/Under Recovery (Net of Incentives)	\$ (40,269)	\$ (80,461)	\$ (25,916)	\$ 62,950	\$ 122,104	\$ 243,405	\$ 198,025	\$ 223,401	\$ 273,961	\$ 322,391	\$ 302,403	\$ 360,291	
12 Two Month Average Cumulative Net (Over)/Under Recovery (Net of Incentives)	\$ (20,134)	\$ (60,365)	\$ (53,189)	\$ 18,517	\$ 92,527	\$ 182,754	\$ 220,715	\$ 210,713	\$ 248,681	\$ 298,176	\$ 312,397	\$ 331,347	
13 Carrying Cost on Cumulative (Over)/Under Recovery [1]	\$ (150)	\$ (450)	\$ (396)	\$ 138	\$ 689	\$ 1,362	\$ 1,644	\$ 1,570	\$ 1,853	\$ 2,222	\$ 2,328	\$ 2,469	\$ 13,278
14 DSM EE/EMF to be (refunded)/collected during the Rate Period (Line 7 + Line 13)	\$ (33,642)	\$ (38,452)	\$ 107,966	\$ 166,262	\$ 118,022	\$ 205,841	\$ (24,587)	\$ 76,449	\$ 115,857	\$ 110,725	\$ 13,479	\$ 129,283	\$ 947,202
Revenue Requirement for Financing Costs on Current Rider CE (Over)/Under Recovery Net of Utility Incentives and ADIT for Jan 2021 - Dec 2021 (Page 6, Line 5)													\$ 34,897
Total DSM EE EMF Rider CE Revenue Requirement to be (Refunded)/Collected over the February 1, 2023 - January 31, 2024 Rate Year													\$ 982,099

[1] Pre-tax Overall Weighted Rate of Return Approved in Docket No. E-22, Sub 562

OFFICIAL COPY
Aug 09 2022

Dominion Energy North Carolina
Docket No. E 22, Sub 645
Actual Revenue Requirement for DSM/EE EMF Rider CE
For the Test Period January 1, 2021 December 31, 2021

Table with columns: No., Actual Jan 21, Actual Feb 21, Actual Mar 21, Actual Apr 21, Actual May 21, Actual Jun 21, Actual Jul 21, Actual Aug 21, Actual Sep 21, Actual Oct 21, Actual Nov 21, Actual Dec 21, Total est Period. Rows include System Program Operating Expenses, Allocate System Common Costs to Programs, and Unit-based Assessment Factors.

OFFICIAL COPY

Aug 09 2022

Dominion Energy North Carolina
Docket No. E 22, Sub 645
Actual Revenue Requirement for DSM/EE EMF Rider CE
For the Test Period January 1, 2021 December 31, 2021

Table with columns: Line No., Description, Actual Jan 21, Actual Feb 21, Actual Mar 21, Actual Apr 21, Actual May 21, Actual Jun 21, Actual Jul 21, Actual Aug 21, Actual Sep 21, Actual Oct 21, Actual Nov 21, Actual Dec 21, Total est Period. Rows include sections for NC Utilization Operating Expenses, NC Utilization Depreciation Expense, NC Utilization Excess Deferred Income, NC Utilization Rate Base Costs, NC Utilization Net Lost Revenues, NC Utilization Program Performance Incentive (PP), and Revenue Requirement (Sum Lines 5 through 11).

OFFICIAL COPY
Aug 09 2022

**Dominion Energy North Carolina
 Docket No. E-22, Sub 645
 Rate Base Costs For the Test Period January 1, 2021 - December 31, 2021**

line no.	Actual Dec-20	Actual Jan-21	Actual Feb-21	Actual Mar-21	Actual Apr-21	Actual May-21	Actual Jun-21	Actual Jul-21	Actual Aug-21	Actual Sep-21	Actual Oct-21	Actual Nov-21	Actual Dec-21
1 System Level Plant In Service Air Conditioner Cycling Program	\$ 19,819,969	\$ 19,821,994	\$ 19,822,969	\$ 19,830,292	\$ 19,827,919	\$ 19,830,919	\$ 19,833,319	\$ 19,835,044	\$ 19,838,569	\$ 19,841,269	\$ 19,844,194	\$ 19,845,394	\$ 19,845,844
2 System Depreciation Expense Air Conditioner Cycling Program	\$ 118,094	\$ 118,106	\$ 118,112	\$ 118,155	\$ 118,141	\$ 118,159	\$ 118,174	\$ 118,184	\$ 118,205	\$ 118,221	\$ 118,238	\$ 118,245	\$ 118,248
3 System Accumulated Depreciation Air Conditioner Cycling Program	\$ 10,696,197	\$ 10,814,303	\$ 10,932,415	\$ 11,050,570	\$ 11,168,712	\$ 11,286,871	\$ 11,405,044	\$ 11,523,228	\$ 11,641,433	\$ 11,759,654	\$ 11,877,892	\$ 11,996,138	\$ 12,114,386
4 Cumulative System Net Plant (Line 1 - Line 3) Air Conditioner Cycling Program	\$ 9,123,772	\$ 9,007,691	\$ 8,890,554	\$ 8,779,722	\$ 8,659,207	\$ 8,544,048	\$ 8,428,275	\$ 8,311,816	\$ 8,197,136	\$ 8,081,615	\$ 7,966,302	\$ 7,849,256	\$ 7,731,458
5 System Accumulated Deferred Income Tax Air Conditioner Cycling Program	\$ (1,861,066)	\$ (1,829,236)	\$ (1,791,574)	\$ (1,751,414)	\$ (1,708,674)	\$ (1,663,435)	\$ (1,615,614)	\$ (1,565,213)	\$ (1,512,313)	\$ (1,456,776)	\$ (1,398,798)	\$ (1,338,238)	\$ (1,305,488)
6 Monthly Rate Base System (Line 4 + Line 5): Air Conditioner Cycling Program	\$ 7,262,706	\$ 7,178,455	\$ 7,098,980	\$ 7,028,307	\$ 6,950,534	\$ 6,880,614	\$ 6,812,660	\$ 6,746,603	\$ 6,684,823	\$ 6,624,839	\$ 6,567,504	\$ 6,511,018	\$ 6,425,970
7 Jurisdictional Allocation Factor Air Conditioner Cycling Program	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%	4.7609%
8 North Carolina Rate Base (Line 6 x Line 7) Air Conditioner Cycling Program	\$ 345,770	\$ 341,759	\$ 337,975	\$ 334,611	\$ 330,908	\$ 327,579	\$ 324,344	\$ 321,199	\$ 318,258	\$ 315,402	\$ 312,672	\$ 309,983	\$ 305,934
9 North Carolina Rate Base (2 month average)		\$ 343,765	\$ 339,867	\$ 336,293	\$ 332,759	\$ 329,244	\$ 325,962	\$ 322,771	\$ 319,728	\$ 316,830	\$ 314,037	\$ 311,328	\$ 307,959
10 Cost of Capital (Page 7, Line 4/12)		0.6021%	0.6021%	0.6021%	0.6021%	0.6021%	0.6021%	0.6021%	0.6021%	0.6021%	0.6021%	0.6021%	0.6021%
11 Net Operating Income (Line 9 * Line 10)		\$ 2,070	\$ 2,046	\$ 2,025	\$ 2,004	\$ 1,982	\$ 1,963	\$ 1,944	\$ 1,925	\$ 1,908	\$ 1,891	\$ 1,875	\$ 1,854
Less Interest Expense LTD													
12 Weighted Cost of Debt (Page 7, Line 1/12)		0.1663%	0.1663%	0.1663%	0.1663%	0.1663%	0.1663%	0.1663%	0.1663%	0.1663%	0.1663%	0.1663%	0.1663%
13 Rate Base (2 Month Average = Line 9)		\$ 343,765	\$ 339,867	\$ 336,293	\$ 332,759	\$ 329,244	\$ 325,962	\$ 322,771	\$ 319,728	\$ 316,830	\$ 314,037	\$ 311,328	\$ 307,959
14 Revenue Requirement - Interest Expense on Debt		\$ 572	\$ 565	\$ 559	\$ 554	\$ 548	\$ 542	\$ 537	\$ 532	\$ 527	\$ 522	\$ 518	\$ 512
15 Net Income Related to Common Equity (Line 11 - Line 14)		\$ 1,498	\$ 1,481	\$ 1,466	\$ 1,450	\$ 1,435	\$ 1,421	\$ 1,407	\$ 1,393	\$ 1,381	\$ 1,369	\$ 1,357	\$ 1,342
16 North Carolina Jurisdictional Income Tax Gross-up Factor		74.47%	74.47%	74.47%	74.47%	74.47%	74.47%	74.47%	74.47%	74.47%	74.47%	74.47%	74.47%
17 Revenue Requirement - Common Equity Including Income Taxes		\$ 2,012	\$ 1,989	\$ 1,968	\$ 1,947	\$ 1,927	\$ 1,908	\$ 1,889	\$ 1,871	\$ 1,854	\$ 1,838	\$ 1,822	\$ 1,802
18 Revenue Requirement on Rate Base (Line 14 + Line 17)		\$ 2,584	\$ 2,554	\$ 2,527	\$ 2,501	\$ 2,474	\$ 2,450	\$ 2,426	\$ 2,403	\$ 2,381	\$ 2,360	\$ 2,340	\$ 2,315

OFFICIAL COPY
Aug 09 2022

Dominion Energy North Carolina
Docket No. E 22 Sub 646
Actual Net Lost Revenues
For the Test Period January 1, 2021 December 31, 2021

line no.	Jan 21	Feb 21	Mar 21	Apr 21	May 21	Jun 21	Jul 21	Aug 21	Sep 21	Oct 21	Nov 21	Dec 21	T 12 est Period
1 Jurisdictional Energy Reductions (kWh)													
Residential Lighting Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Low Income Program (NC Only)	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial HVAC Upgrade Program (NC Training EMV Costs Only)	-	-	-	-	-	-	-	-	-	-	-	-	-
Commercial Lighting Program (NC Training EMV Costs Only)	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Heat Pump Tune-up Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Heat Pump Upgrade Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Duct Testing and Sealing Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Home Energy Checkup Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential Duct Testing and Sealing Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential Energy Audit Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential Lighting Systems and Controls Program (NC Only)	70,552	70,552	70,552	70,552	70,552	70,552	70,552	70,552	70,552	70,552	70,552	70,552	8,662
Non-Residential Heating and Cooling Efficiency Program (NC Only)	1,262	1,262	1,262	1,262	1,262	1,262	1,262	1,262	1,262	1,262	1,262	1,262	15.1
Non-Residential Window Film Program (NC Training EMV Costs)	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Income & Age Qualifying Home Improvement Program	5.56	5.56	5.56	6.67	6.68	6.9	6.9	6.9	6.9	6.9	6.9	6.9	75,085
Commercial Small Business Improvement Program	51.28	6,756	6,756	6,756	6,756	6,756	6,756	6,756	6,756	6,756	6,756	6,756	763,600
Residential LED Program (NC Only)	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential Prescriptive Program	56,355	6,397	72,090	80,317	91.2	98,972	88,972	88,972	88,972	99,959	99,959	103.0	1,063,256
Residential Appliance Recycling Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Efficient Products Marketplace Program	16,389	189.55	207.9	233.7	2,822	260,705	275,212	288.08	299,988	315.0	329,591	3,288	3,155,366
Residential Home Energy Assessment Program	1,283	1,293	2,28	2,662	3,507	071	186	231	81	9.9	1.9	1.9	6,015
Non-Residential Window Film Program	1,162	1,162	-	-	1,162	1,162	1,162	1,162	1,162	1,162	1,162	1,162	13.9
Non-Residential Heating and Cooling Efficiency Program	-	-	-	-	172	172	172	172	172	172	172	172	1,376
Non-Residential Lighting Systems & Controls Program	6,522	6.6	10,066	10,066	10.2	10.56	10.56	17.60	17.60	17.60	17.60	17.60	1,532.7
Non-Residential Off or Pro am	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Energy Efficient Kits Program	-	-	-	1,638	1,638	1,638	1,638	3,259	3,259	3,259	3,259	3,259	21,226
Residential Smart Thermostat Program (IDR)	-	-	-	-	-	-	-	-	-	-	-	-	-
Residential Smart Thermostat (EE)	-	-	-	-	361	90	608	700	1,01	1,	1,520	1,997	8,527
Residential Home Retro IP oram	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential New Construction Program	-	-	-	-	-	-	-	-	-	-	-	-	-
Non-Residential Small Business Improvement Enhanced Program	-	-	-	-	-	-	-	5.72	10,860	10,860	12.21	39,658	-
2 Billing Rate													
Residential Lighting Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Low Income Program (NC Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commercial HVAC Upgrade Program (NC Training EMV Costs Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commercial Lighting Program (NC Training EMV Costs Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Heat Pump Tune-up Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Heat Pump Upgrade Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Duct Testing and Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Home Energy Checkup Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Duct Testing and Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Energy Audit Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Lighting Systems and Controls Program (NC Only)	\$ 0.06	\$ 0.06	\$ 0.0652	\$ 0.06	\$ 0.0658	\$ 0.06989	\$ 0.08093	\$ 0.07639	\$ 0.07252	\$ 0.0660	\$ 0.05665	\$ 0.06679	\$ 0.05025
Non-Residential Heating and Cooling Efficiency Program (NC Only)	\$ 0.0	\$ 0.00161	\$ 0.00198	\$ 0.00	\$ 0.00	\$ 0.00012	\$ 0.00776	\$ 0.00770	\$ 0.00721	\$ 0.005019	\$ 0.00519	\$ 0.00525	\$ 0.00525
Non-Residential Window Film Program (NC Training EMV Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Income & Age Qualifying Home Improvement Program	\$ 0.07258	\$ 0.07259	\$ 0.07253	\$ 0.07253	\$ 0.07256	\$ 0.08696	\$ 0.08700	\$ 0.08700	\$ 0.08700	\$ 0.07251	\$ 0.07250	\$ 0.07257	\$ 0.07257
Commercial Small Business Improvement Program	\$ 0.061	\$ 0.06238	\$ 0.06326	\$ 0.062	\$ 0.0625	\$ 0.0661	\$ 0.06673	\$ 0.06691	\$ 0.06669	\$ 0.06661	\$ 0.06166	\$ 0.06317	\$ 0.06317
Residential LED Program (NC Only)	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06
Non-Residential Prescriptive Program	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06	\$ 0.06
Residential Appliance Recycling Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Efficient Products Marketplace Program	\$ 0.07231	\$ 0.07221	\$ 0.07232	\$ 0.07232	\$ 0.08672	\$ 0.08675	\$ 0.08675	\$ 0.08675	\$ 0.08670	\$ 0.07228	\$ 0.07235	\$ 0.07231	\$ 0.07231
Residential Home Energy Assessment Program	\$ 0.07262	\$ 0.07262	\$ 0.07262	\$ 0.07262	\$ 0.07262	\$ 0.08707	\$ 0.08707	\$ 0.08707	\$ 0.08707	\$ 0.07258	\$ 0.07252	\$ 0.07259	\$ 0.07259
Non-Residential Window Film Program	\$ 0.005	\$ 0.005	\$ 0.005	\$ 0.005	\$ 0.005	\$ 0.005	\$ 0.005	\$ 0.005	\$ 0.005	\$ 0.005	\$ 0.005	\$ 0.005	\$ 0.005
Non-Residential Heating and Cooling Efficiency Program	\$ 0.0	\$ 0.00161	\$ 0.00198	\$ 0.00	\$ 0.00	\$ 0.00012	\$ 0.00776	\$ 0.00770	\$ 0.00721	\$ 0.005019	\$ 0.00519	\$ 0.00525	\$ 0.00525
Non-Residential Lighting Systems & Controls Program	\$ 0.06	\$ 0.06	\$ 0.0652	\$ 0.06	\$ 0.0658	\$ 0.06989	\$ 0.08093	\$ 0.07639	\$ 0.07252	\$ 0.0660	\$ 0.05665	\$ 0.06679	\$ 0.05025
Non-Residential Off or Pro am	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Energy Efficient Kits Program	\$ 0.07189	\$ 0.07189	\$ 0.07189	\$ 0.07189	\$ 0.07189	\$ 0.08696	\$ 0.08700	\$ 0.08700	\$ 0.08700	\$ 0.07189	\$ 0.07189	\$ 0.07189	\$ 0.07189
Residential Smart Thermostat Program (IDR)	\$ 0.07261	\$ 0.07261	\$ 0.07261	\$ 0.07261	\$ 0.07261	\$ 0.08707	\$ 0.08707	\$ 0.08707	\$ 0.08707	\$ 0.07258	\$ 0.07252	\$ 0.07259	\$ 0.07259
Residential Smart Thermostat (EE)	\$ 0.06722	\$ 0.06666	\$ 0.07268	\$ 0.07111	\$ 0.08	\$ 0.0829	\$ 0.08361	\$ 0.08366	\$ 0.07965	\$ 0.07168	\$ 0.07167	\$ 0.07167	\$ 0.07167
Residential Home Retro IP oram	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential New Construction Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Small Business Improvement Enhanced Program	\$ 0.00525	\$ 0.005	\$ 0.005	\$ 0.00521	\$ 0.06179	\$ 0.07037	\$ 0.06979	\$ 0.07083	\$ 0.06987	\$ 0.06298	\$ 0.06336	\$ 0.065	\$ 0.065
3 Jurisdictional Lost Revenues (Line 1 x Line 2)													
Residential Lighting Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Low Income Program (NC Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commercial HVAC Upgrade Program (NC Training EMV Costs Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Commercial Lighting Program (NC Training EMV Costs Only)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Heat Pump Tune-up Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Heat Pump Upgrade Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Duct Testing and Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Home Energy Checkup Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Duct Testing and Sealing Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Energy Audit Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Lighting Systems and Controls Program (NC Only)	\$ 565	\$ 583	\$ 693	\$ 5	\$ 63	\$ 931	\$ 5,710	\$ 5,389	\$ 5,116	\$ 685	\$ 632	\$ 712	\$ 58,195
Non-Residential Heating and Cooling Efficiency Program (NC Only)	\$ 61	\$ 65	\$ 66	\$ 62	\$ 62	\$ 76	\$ 98	\$ 101	\$ 91	\$ 63	\$ 65	\$ 63	\$ 873
Non-Residential Window Film Program (NC Training EMV Costs)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Income & Age Qualifying Home Improvement Program	\$ 0	\$ 0	\$ 0	\$ 69	\$ 69	\$ 565	\$ 565	\$ 565	\$ 71	\$ 71	\$ 71	\$ 71	\$ 8,822
Commercial Small Business Improvement Program	\$ 3,150	\$ 3,039	\$ 3,098	\$ 3,077	\$ 3,050	\$ 3,301	\$ 3,219	\$ 3,119	\$ 3,025	\$ 2,806	\$ 2,981	\$ 2,807	\$ 36,807
Residential LED Program (NC Only)	\$ 3,653	\$ 3,373	\$ 3,550	\$ 3,32	\$ 3,302	\$ 6,896	\$ 7,196	\$ 7,153	\$ 6,87	\$ 6,87	\$ 6,62	\$ 6,627	\$ 72,785
Non-Residential Prescriptive Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Appliance Recycling Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Efficient Products Marketplace Program	\$ 11,887	\$ 13,681	\$ 15,038	\$ 16,905	\$ 17,952	\$ 22,608	\$ 23,875	\$ 2,988	\$ 26,009	\$ 22,771	\$ 23,8	\$ 2,801	\$ 2,381
Residential Home Energy Assessment Program	\$ 9	\$ 9	\$ 16	\$ 193	\$ 25	\$ 35	\$ 365	\$ 368	\$ 19	\$ 31	\$ 31	\$ 37	\$ 3,806
Non-Residential Window Film Program	\$ 6	\$ 6	\$ 6	\$ 6	\$ 6	\$ 63	\$ 69	\$ 73	\$ 63	\$ 62	\$ 66	\$ 6	\$ 710
Non-Residential Heating and Cooling Efficiency Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Lighting Systems & Controls Program	\$ 22	\$ 32	\$ 670	\$ 6	\$ 073	\$ 731	\$ 6	\$ 739	\$ 1,277	\$ 1,169	\$ 1,156	\$ 1,170	\$ 9,997
Non-Residential Off or Pro am	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Energy Efficient Kits Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Smart Thermostat Program (IDR)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Smart Thermostat (EE)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Residential Home Retro IP oram	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential New Construction Program	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Non-Residential Small Business Improvement Enhanced Program	\$ -												

Dominion Energy North Carolina
Docket No. E-22, Sub 645
Collection of Financing Costs on Current Rider CE EMF Under-Recovery Over the Period of January 2021 - December 2021
To Be Refunded Over the Rate Period February 1, 2023 - January 31, 2024

line no.		
1	Test Period (Over)/Under Recovery - Net of Utility Incentives (Net of ADIT), R8-69(b)(6) (Shedule 2, Page 1, Line 10)	\$ 360,291
2	Overall Cost of Capital Approved in Docket No. E-22, Sub 562 Grossed Up for Taxes	8.94%
3	Monthly Interest Rate (Line 2/12)	0.7451%
4	Number of Months collection is Outstanding (January 2022 - January 2023)	13
5	Interest to be collected on Test Period (Over) Recovery Net of ADIT	\$ 34,897

VIRGINIA ELECTRIC AND POWER COMPANY

**Cost of Capital and Capital Structure
13-Month Average
As of December 31, 2021**

line no.	Description	Average Capitalization	Average Capitalization Ratio	Average Embedded Cost%	Overall Cost Rate
1	Total Long-Term Debt	13,110,805	46.364%	4.3053%	1.996%
2	Total Preferred Stock	0	0.000%	0.0000%	0.000%
3	Common Equity	15,167,447	53.636%	9.7500%	5.230%
4	Total	<u>\$28,278,252</u>	<u>100.000%</u>		<u>7.226%</u>

file: To Rates Summary ADIT AC Cycling Pro Rata 2022 Filing 7.21.2022

Virginia Power
Estimated ADIT- Liberalized Pro Rata
Dec 2020 - Jan 2024

Year	Month	ADIT
2020	Dec	(1,861,066)
2021	Jan	(1,829,236)
2021	Feb	(1,791,574)
2021	Mar	(1,751,414)
2021	Apr	(1,708,674)
2021	May	(1,663,435)
2021	Jun	(1,615,614)
2021	Jul	(1,565,213)
2021	Aug	(1,512,313)
2021	Sep	(1,456,776)
2021	Oct	(1,398,798)
2021	Nov	(1,338,238)
2021	Dec	(1,305,488)
2022	Jan	(1,286,901)
2022	Feb	(1,268,312)
2022	Mar	(1,249,723)
2022	Apr	(1,231,135)
2022	May	(1,212,546)
2022	Jun	(1,193,958)
2022	Jul	(1,175,369)
2022	Aug	(1,156,780)
2022	Sep	(1,138,192)
2022	Oct	(1,119,604)
2022	Nov	(1,101,014)
2022	Dec	(1,082,426)
2023	Jan	(1,063,733)
2023	Feb	(1,046,398)
2023	Mar	(1,030,620)
2023	Apr	(1,016,348)
2023	May	(1,003,635)
2023	Jun	(992,427)
2023	Jul	(982,777)
2023	Aug	(974,685)
2023	Sep	(968,098)
2023	Oct	(963,069)
2023	Nov	(959,547)
2023	Dec	(957,582)
2024	Jan	(957,166)

**Virginia Power
State Apportionment
2021**

		<u>Non Current Def</u>
NC	0.04603800	
Current	2.500000%	
Def Current	2.500000%	
Non Current	2.500000%	
	0.122228%	0.00115095
WV	0.00000000	
Current	6.500000%	
Def Current	6.500000%	
Non Current	6.500000%	
	0.129948%	0.00000000
VA	0.93735300	
Current	6.000000%	
Def Current	6.000000%	
Non Current	6.000000%	0.05624118
DC	0.00000000	
Current	8.250000%	
Def Current	8.250000%	
Non Current	8.250000%	0.00000000
	State Rate	5.73921%
	State Tax Effected	4.53398%
	Federal Rate	21.00000%
	Transactional Rate	25.53398%
	fed effect of state	-1.20524%

**Dominion Energy North Carolina
 Docket No. E-22, Sub 645
 Monthly Revenues - Rider C
 For the Test Period January 1, 2021 - December 31, 2021**

<u>Revenue Class</u>	<u>Jan-21</u>	<u>Feb-21</u>	<u>Mar-21</u>	<u>Apr-21</u>	<u>May-21</u>	<u>Jun-21</u>	<u>Jul-21</u>	<u>Aug-21</u>	<u>Sep-21</u>	<u>Oct-21</u>	<u>Nov-21</u>	<u>Dec-21</u>	<u>2021 Totals</u>
Residential	\$ 127,544	\$ 180,094	\$ 112,878	\$ 72,288	\$ 92,673	\$ 134,644	\$ 162,337	\$ 156,920	\$ 127,518	\$ 96,447	\$ 102,711	\$ 132,640	\$ 1,498,694
Commercial	\$ 63,671	\$ 68,995	\$ 41,055	\$ 43,860	\$ 50,399	\$ 54,655	\$ 64,032	\$ 71,408	\$ 58,194	\$ 56,698	\$ 50,561	\$ 44,971	\$ 668,499
Industrial	\$ 71,459	\$ 33,402	\$ (2,108)	\$ (29,663)	\$ 21,508	\$ (6,645)	\$ 31,100	\$ (13,177)	\$ 1,453	\$ 20,172	\$ 75,970	\$ (24,456)	\$ 179,015
COV	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Co/Muni	\$ 9,825	\$ 14,360	\$ 10,470	\$ 7,499	\$ 8,214	\$ 9,929	\$ 10,943	\$ 11,644	\$ 10,010	\$ 9,123	\$ 8,700	\$ 7,933	\$ 118,649
St & Traffic (COVA)	\$ 87	\$ 1	\$ 0	\$ 152	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 240
Federal	\$ 2,876	\$ 3,211	\$ 2,229	\$ 1,980	\$ 1,724	\$ 2,131	\$ 2,395	\$ 2,482	\$ 2,438	\$ 2,151	\$ 1,680	\$ 1,822	\$ 27,118
Unbilled Adjustment				\$ (10,022)									\$ (10,022)
Total Revenue by Month	\$ 275,463	\$ 300,062	\$ 164,523	\$ 86,093	\$ 174,517	\$ 194,714	\$ 270,807	\$ 229,277	\$ 199,613	\$ 184,590	\$ 239,623	\$ 162,910	\$ 2,482,193

OFFICIAL COPY
Aug 09 2022

**DIRECT TESTIMONY
OF
CHRISTOPHER C. HEWETT
ON BEHALF OF
DOMINION ENERGY NORTH CAROLINA
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-22, SUB 645**

1 **Q. Please state your name, position, and business address with Virginia**
2 **Electric and Power Company (“Dominion Energy North Carolina” or the**
3 **“Company”).**

4 A. My name is Christopher C. Hewett, and I am a Regulatory Specialist for
5 Dominion Energy North Carolina. My business address is 120 Tredegar
6 Street, Richmond, Virginia 23219. A statement of my background and
7 qualifications is attached as Appendix A.

8 **Q. Please describe your area of responsibility with the Company.**

9 A. I am responsible for the analysis of Company data used in the calculation of
10 allocation factors and rate making processes within the Customer Rates
11 Department.

12 **Q. What is the purpose of your testimony in this proceeding?**

13 A. My testimony supports the Company’s request to recover all reasonable and
14 prudent costs incurred in adopting and implementing the Company’s portfolio
15 of North Carolina demand-side management (“DSM”) and energy efficiency
16 (“EE”) programs (“DSM/EE Programs” or “Programs”) and utility incentives,
17 through its updated Rider C, as well as the Company’s experience modi-
18 fication factor (“EMF”) rider, Rider CE (“Application”). The purpose of my

1 testimony is to explain the jurisdiction and customer class responsibility of
2 costs for the approved and proposed DSM/EE Programs for which the
3 Company seeks approval for cost recovery in this proceeding.

4 **Q. Mr. Hewett, are you sponsoring any exhibits or schedules in connection**
5 **with your testimony?**

6 A. Yes. Company Exhibit CCH-1, consisting of Schedules 1-4 (Schedules 1 and
7 3 provided in public and confidential versions filed under seal) has been
8 prepared under my direction and supervision and is accurate and complete to
9 the best of my knowledge and belief. Schedules 1-4 support the jurisdictional
10 allocation and customer class allocation of DSM/EE costs for the development
11 of Rider C and Rider CE, as follows:

- 12 • Schedule 1 shows the allocation or assignment of system-level Common
13 Costs to each individual DSM and EE Program and the determination of
14 jurisdictional responsibility of system costs for approved Programs,
15 including allocated Common Costs.
- 16 • Schedule 2 shows the factors for allocating total Program revenue
17 requirements to customer classes.
- 18 • Schedule 3 shows how total Program revenue requirements are allocated
19 to customer classes.
- 20 • Schedule 4 provides the documents to be filed in accordance with NCUC
21 Rule R8-69(f)(1)(ii)(b) and NCUC Rule R8-69(f)(1)(viii).

1 **Q. Before describing how you propose to determine the jurisdictional and**
2 **customer class responsibility for DSM/EE costs, is the manner you**
3 **propose consistent with the allocation approach approved in last year’s**
4 **DSM/EE rider proceeding, Docket No. E-22, Sub 604?**

5 A. Yes. The methodology that I will describe is consistent with the methodology
6 approved by the North Carolina Utilities Commission’s (“Commission”)
7 January 5, 2022 Order in the Company’s most recent cost recovery proceeding
8 in Docket No. E-22, Sub 604. This methodology is also consistent with the
9 updated Cost Recovery and Incentive Mechanism (“Mechanism”) approved
10 by the Commission’s March 22, 2022 Order issued in Docket No. E-22, Sub
11 464.

12 **I. ALLOCATION OF COMMON COSTS TO**
13 **DSM/EE PROGRAMS**

14 **Q. Please explain Common Costs and how such costs are allocated to the**
15 **DSM and EE Programs.**

16 A. Certain costs including internal labor and related costs, program marketing
17 costs, and information gathering costs are not directly attributable to specific
18 Programs. The Company characterizes these costs as “Common Costs,”
19 which are needed to design, implement, and operate the Programs. The DSM
20 and EE Programs are administered in the Company’s Virginia and North
21 Carolina service territories that comprise the PJM designated DOM Zone.
22 Therefore, these costs will be incurred and recovered on the DOM Zone
23 system-level basis.

1 According to Paragraphs 29 – 30 of the revised Mechanism, system-level
2 Common Costs are to be allocated to each DSM/EE Program on the basis of
3 the estimated relative operating costs of each individual program including
4 O&M, depreciation, property taxes, and insurance expenses. Schedule 1,
5 Page 1 provides a general description of how system-level Common Costs are
6 allocated to each Program. Page 2 provides the allocation of these costs to the
7 Programs for the January 1, 2021, to December 31, 2021 test period (“Test
8 Period”) through the EMF for recovery through Rider CE. Page 3 provides
9 the allocation of these costs for the projected calendar year 2023 to be
10 recovered during the February 1, 2023, to January 31, 2024 rate period (“Rate
11 Period”) through Rider C.

12 **II. JURISDICTIONAL ALLOCATION OF**
13 **PROGRAM COSTS**

14 **Q. Please describe how the system costs for approved DSM/EE Programs,**
15 **including allocated Common Costs, will be allocated to the North**
16 **Carolina jurisdiction according to the Mechanism.**

17 A. System-level costs for the approved DSM/EE Programs, including allocated
18 Common Costs, are allocated or assigned to the North Carolina jurisdiction
19 according to Paragraph 30 of the Mechanism. Paragraph 30 provides for the
20 cost of DSM programs to be allocated on the basis of the Company’s
21 coincident peak and for the cost of EE programs to be allocated on the basis of
22 energy. In the case of both the DSM and EE allocation factors, the following
23 retail jurisdictions are included in the development of each factor: (i) the

1 North Carolina retail jurisdiction; (ii) the Virginia retail jurisdiction; and (iii)
2 Virginia non-jurisdictional customers excluding contract classes that have
3 elected not to participate and excluding customers in participating contract
4 classes that have elected not to participate and excluding customers in
5 participating contract classes that are exempt or have opted out. Schedule 1,
6 Page 1 provides a general description of how DSM/EE costs are allocated or
7 assigned to the North Carolina jurisdiction. Schedule 1, Page 4 provides the
8 development of jurisdictional allocation factors for DSM and EE Programs.
9 Coincident peak and energy allocation factors are calculated as described
10 above to allocate costs from the system to the North Carolina retail
11 jurisdiction. For the updated EMF Test Period, the allocation factors for
12 determining jurisdictional costs are based on the 12 months ended December
13 31, 2021, and are shown on Schedule 1, Page 4. For the Rate Period, the
14 allocation factors are also based on the 12 months ended December 31, 2021,
15 and are also shown on Schedule 1, Page 4.

16 **III. ASSIGNMENT AND ALLOCATION OF**
17 **JURISDICTIONAL COSTS TO CUSTOMER CLASSES**

18 **Q. Once costs have been determined for the North Carolina jurisdiction,**
19 **how will the revenue requirements be assigned or allocated to the**
20 **customer classes according to the Mechanism?**

21 A. Retail jurisdictional costs for the Company's DSM/EE Program portfolio,
22 including allocated Common Costs, shall be assigned or allocated to North
23 Carolina retail customer classes based on the particular classes at which each

1 program is targeted according to Paragraph 33 of the Mechanism. The cost of
2 residential Programs is assigned to the residential class as shown in Schedule
3 2, Page 1. The costs of non-residential Programs are allocated to targeted
4 non-residential customer classes using either a coincident peak-based or an
5 energy-based allocation factor as shown in Schedule 2, Page 1. Schedule 2,
6 Page 2 provides the development of the coincident peak and energy class
7 allocation factors for the non-residential Programs. For the updated EMF, the
8 allocation factors for determining customer class responsibility for
9 jurisdictional costs are based on the 12 months ended December 31, 2021.
10 For the projected Rate Period, the allocation factors for determining customer
11 class responsibility for jurisdictional costs are also based on the 12 months
12 ended December 31, 2021, and are shown on Schedule 2, Page 2. For
13 residential Programs, the responsibility for costs will be assigned 100% to the
14 residential class, so neither a coincident peak-based nor an energy-based class
15 allocation factor is needed.

16 **Q. How will the Test Period and Rate Period revenue requirements to be**
17 **recovered through the EMF Rider CE and Rider C be assigned or**
18 **allocated for the residential Programs to the customer classes?**

19 A. The total amount to be recovered through the DSM/EE EMF Rider CE for the
20 residential Programs will be assigned to the residential class. The total
21 revenue requirement for DSM/EE Programs Rider C for the residential
22 Programs will also be assigned to the residential class for cost recovery

1 purposes. Please refer to Schedule 2, Page 1 for further explanation of this
2 assignment.

3 **Q. How will the Test Period and Rate Period revenue requirements to be**
4 **recovered through the EMF Rider CE and Rider C be assigned or**
5 **allocated for the non-residential Programs to the customer classes?**

6 A. The total amount to be recovered through the DSM/EE EMF Rider CE for the
7 non-residential Programs will be allocated to the non-residential customer
8 classes eligible to participate in such Programs. The total revenue
9 requirement for DSM/EE Programs Rider C for the non-residential Programs
10 will also be allocated to the non-residential customer classes eligible to
11 participate in such Programs. Regarding the development of allocation
12 factors, these Programs are not limited to commercial customers as other non-
13 residential customers, including industrial customers, are eligible to
14 participate. The allocation factors used to allocate these revenue requirements
15 will be adjusted for customers who elect to opt out as provided for under
16 N.C.G.S. § 62-133.9(f). In addition, no costs will be allocated to the Street
17 and Outdoor Lighting class or the Traffic Lighting class since such classes
18 will not be targeted by these Programs. Neither class will experience a
19 reduction in energy consumption or demand resulting from these Programs
20 and will, therefore, not experience a benefit due to a change in their
21 production demand allocation factor if all other things remain the same. Other
22 non-residential customer classes that do participate in the Programs will
23 experience reductions in energy consumption and/or demand and may receive

1 a benefit due to a change in their production demand allocation factor. It is
2 appropriate to not allocate any costs to customer classes that will not benefit
3 from participation in a program or programs.

4 Page 1 of my Schedule 2 summarizes the factors used to allocate the costs of
5 the DSM/EE commercial Programs to the customer classes.

6 **Q. Do you have a schedule which shows the allocation to the customer classes**
7 **of the amounts to be recovered through the DSM/EE EMF Rider CE and**
8 **DSM/EE Programs Rider C?**

9 A. Yes. Schedule 3, Pages 1 and 2 provide the allocation to the customer classes
10 of the amount that needs to be collected for the Test Period true up through
11 the DSM/EE EMF Rider CE. Schedule 3, Pages 3 and 4 provide the
12 allocation of the revenue requirement to the customer classes for recovery
13 during the Rate Period through DSM/EE Programs Rider C. These total
14 revenue requirements are obtained from Company Witness Justin A.
15 Wooldridge's Schedule 1 and Schedule 2 for Rider C and Rider CE,
16 respectively.

17 **Q. To summarize, what is the total revenue requirement for DSM/EE**
18 **Programs by customer class for recovery under the proposed DSM/EE**
19 **EMF Rider CE and DSM/EE Rider C?**

20 A. Schedule 3, Page 2, line 9 provides the amount to be recovered from each
21 customer class under the proposed DSM/EE EMF Rider CE. Schedule 3,

1 Page 4, line 2 provides the total revenue requirement by customer class under
2 the proposed DSM/EE Rider C.

3 **Q. Please outline what is included in Schedule 4 of your testimony.**

4 A. In accordance with NCUC Rule R8-69(f)(1)(ii)(b), the total cost that the
5 utility does not expect to incur during the Rate Period as a direct result of the
6 DSM/EE measures in the aggregate to the North Carolina jurisdiction are
7 shown on Pages 1 and 2 of my Schedule 4. Expenses not expected to be
8 incurred are provided by Company Witness Edmund J. Hall. In this Schedule,
9 I provide the North Carolina jurisdictional allocation factors that were
10 produced from the Company's most recent Summer Winter Peak and Average
11 allocation factor methodology, as used in the Company's North Carolina 4
12 Jurisdiction cost of service study for the year ending December 31, 2021.
13 These are the factors that would be used to allocate these costs had they been
14 incurred. As shown on Schedule 4, Pages 1 and 2, separate demand and
15 energy weighted factors should be used to allocate the demand-related
16 expenses not expected to be incurred and the energy-related expenses not
17 expected to be incurred, respectively. These factors are Factor 1 (demand-
18 weighted) and Factor 3 (energy). Also included in Schedule 4 are Pages 3
19 through 5, which are workpapers filed in accordance with NCUC Rule R8-
20 69(f)(1)(viii). These pages show the development of allocation factors used to
21 allocate system expenses not expected to be incurred during the Rate Period
22 (Pages 4 and 5).

- 1 Q. Does this conclude your direct testimony?
- 2 A. Yes, it does.

**BACKGROUND AND QUALIFICATIONS
OF
CHRISTOPHER C. HEWETT**

Christopher C. Hewett received a Bachelor of Arts degree in Government from the College of William and Mary in 1998. Mr. Hewett joined the Company as a Senior Business Analyst in the PJM Settlement Department in 2009 and was promoted to Supervisor in 2013. In 2020 he joined the Customer Rates Department as a Regulatory Specialist. His responsibilities include providing support and analysis for the Company's regulatory filings in Virginia and North Carolina. Prior to working at the Company, he held analyst roles in both the public and private sector.

Mr. Hewett has previously filed testimony before the State Corporation Commission of Virginia, the North Carolina Utilities Commission, and the Federal Energy Regulatory Commission.

**DOMINION ENERGY NORTH CAROLINA
ASSIGNMENT AND ALLOCATION OF COSTS TO NORTH CAROLINA JURISDICTION
DOCKET NO. E-22, SUB 645**

**OFFICIAL COPY
Aug 09 2022**

<u>Line</u>	<u>Name of System Program</u>	<u>Program Category</u>	<u>Basis for Determining Cost for North Carolina Jurisdiction</u>		
			<u>Assignment</u>	<u>Allocation to NC Juris</u>	<u>If Allocated, Allocation Factor</u>
North Carolina Programs (2)					
1	Air Conditioner Cycling Program	Peak-Clipping		X	1CP
2	Residential Income and Age Qualifying Home Improvement Program	Energy Efficiency		X	Energy
3	Qualifying Small Business Improvement Program	Energy Efficiency		X	Energy
4	Residential LED Lighting - NC Only	Energy Efficiency	X		
5	Non-Residential Prescriptive Program	Energy Efficiency		X	Energy
6	Residential Appliance Recycling Program	Energy Efficiency		X	Energy
7	Residential Efficient Products Marketplace Program	Energy Efficiency		X	Energy
8	Residential Home Energy Assessment Program	Energy Efficiency		X	Energy
9	Non-Residential Lighting Systems & Controls Program	Energy Efficiency		X	Energy
10	Non-Residential Heating & Cooling Efficiency Program	Energy Efficiency		X	Energy
11	Non-Residential Window Film Program	Energy Efficiency		X	Energy
12	Non-Residential Small Manufacturing Program	Energy Efficiency		X	Energy
13	Non-Residential Office Program	Energy Efficiency		X	Energy
14	Residential Energy Efficient Kits Program	Energy Efficiency		X	Energy
15	Residential Smart Thermostat Program (DR)	Peak-Clipping		X	1CP
16	Residential Smart Thermostat (EE)	Energy Efficiency		X	Energy
17	Residential Home Retrofit Program	Energy Efficiency		X	Energy
18	Non Residential New Construction Program	Energy Efficiency		X	Energy
19	Non Residential Small Business Improvement Program	Energy Efficiency		X	Energy
20	Residential Income Age Qualifying Home Improvement Program	Energy Efficiency		X	Energy
21	Residential Smart Home Program	Energy Efficiency		X	Energy
22	Residential Virtual Audit Program	Energy Efficiency		X	Energy
23	Residential Water Savings Program (EE)	Energy Efficiency		X	Energy
24	Residential Water Savings Program (DR)	Peak-Clipping		X	1CP
25	Non-Residential Building Automation Program	Energy Efficiency		X	Energy
26	Non-Residential Building Optimization Program	Energy Efficiency		X	Energy
27	Non-Residential Engagement Program	Energy Efficiency		X	Energy
28	Non-Residential Prescriptive Program	Energy Efficiency		X	Energy
29	Non-North Carolina Programs (3)	Non-North Carolina Programs			
30	Common Costs	All Programs	X (1)	X (1)	<u>Σ Prog Cost \$</u> Σ Sys Prog Cost \$

Notes

- 1) Allocation of System-level Common Costs to each Program on the basis of individual Program Costs to System Program Costs. All common costs for NC-only programs are assigned to NC.
- 2) For the projected rate period, refer to Company Exhibit JAW-1, Rider C, Schedule 1, Page 2, Line 4
- 3) For the projected rate period, refer to Company Exhibit JEB-1, Schedule 4, Page 1

DOMINION ENERGY NORTH CAROLINA
ALLOCATION OF COMMON COSTS TO PROGRAMS
FOR THE PROJECTED RATE PERIOD FOR RIDER C
DOCKET NO. E-22, SUB 645

FEBRUARY 1, 2023 - JANUARY 31, 2024

Allocate Common Cost to Programs: (1)

Common Costs

Costs Applicable to All
of the DSM/EE Programs

System Program Cost \$
Σ System Program Cost \$

An allocation factor is developed for each Program.

Line	Name of System Program	Program Category	Approved in NC Jurisdiction	Projected Operating Cost (2)	Projected Depreciation Expense (3)	Projected Property Taxes (4)	Total	Rider C Program Rev Req to Total C Allocation Factors
1	Air Conditioner Cycling Program	Peak-Clipping	X					
2	Residential Income and Age Qualifying Home Improvement Program	Energy Efficiency	X					
3	Qualifying Small Business Improvement Program	Energy Efficiency	X					
4	Residential LED Lighting - NC Only	Energy Efficiency	NC Only					
5	Non-Residential Prescriptive Program	Energy Efficiency	X					
6	Residential Appliance Recycling Program	Energy Efficiency	X					
7	Residential Efficient Products Marketplace Program	Energy Efficiency	X					
8	Residential Home Energy Assessment Program	Energy Efficiency	X					
9	Non-Residential Lighting Systems & Controls Program	Energy Efficiency	X					
10	Non-Residential Heating & Cooling Efficiency Program	Energy Efficiency	X					
11	Non-Residential Window Film Program	Energy Efficiency	X					
12	Non-Residential Small Manufacturing Program	Energy Efficiency	X					
13	Non-Residential Office Program	Energy Efficiency	X					
14	Residential Energy Efficient Kits Program	Energy Efficiency	X					
15	Residential Smart Thermostat Program (DR)	Peak-Clipping	X					
16	Residential Smart Thermostat (EE)	Energy Efficiency	X					
17	Residential Home Retrofit Program	Energy Efficiency	X					
18	Non Residential New Construction Program	Energy Efficiency	X					
19	Non Residential Small Business Improvement Program	Energy Efficiency	X					
20	Residential Income Age Qualifying Home Improvement Program	Energy Efficiency	X					
21	Residential Smart Home Program	Energy Efficiency	X					
22	Residential Virtual Audit Program	Energy Efficiency	X					
23	Residential Water Savings Program (EE)	Energy Efficiency	X					
24	Residential Water Savings Program (DR)	Peak-Clipping	X					
25	Non-Residential Building Automation Program	Energy Efficiency	X					
26	Non-Residential Building Optimization Program	Energy Efficiency	X					
27	Non-Residential Engagement Program	Energy Efficiency	X					
28	Non-Residential Prescriptive Program	Energy Efficiency	X					
29	Non-North Carolina Programs (5)							
Sum of Program Cost								

Note

- 1) The allocation of the Common cost revenue requirement to the DSM/EE Programs is provided in the testimony of Company witness Wooldridge For the projected rate period ending January 31, 2024, refer to Company Exhibit JEB - 1, Schedule 1 (also includes projected property taxes)
- 2) For the projected rate period, refer to Company Exhibit JAW-1, Rider C, Schedule 1, Page 2, Line 1
- 3) For the projected rate period, refer to Company Exhibit JAW-1, Rider C, Schedule 1, Page 4, Line 5
- 4) For the projected rate period, refer to Company Exhibit JAW-1, Rider C, Schedule 1, Page 3, Line 8 Divided by Schedule 1, Page 2, Line 4
- 5) For the projected rate period, refer to Company Exhibit JEB-1, Schedule 4

**DOMINION ENERGY NORTH CAROLINA
 JURISDICTIONAL ALLOCATION FACTORS
 FOR THE PROJECTED RATE PERIOD FOR RIDER C AND RIDER CE
 TWELVE MONTHS ENDED DECEMBER 31, 2021
 DOCKET NO. E-22, SUB 645**

**Dominion Energy North Carolina
 12 Months Ended December 31, 2021
 1CP Methodology - 4 Jurisdiction**

Factor 1 NC DSM

	Total DOM Zone	VA Juris	VA Non-Juris	FERC	NC Juris
(1) CP (kW) loads at time of DOM Zone Peak (NSPL)	17,116,379	14,422,809	1,750,600	220,682	722,289
(2) Less Non-participating Contract Classes and Exempt/Opt-out MS Customers	1,945,167	0	1,724,485	220,682	0
(3) Adjusted CP loads	15,171,212	14,422,809	26,114	0	722,289
(4) Factor 1 NC DSM	100.0000%	95.0670%	0.1721%	0.0000%	4.7609%

Factor 3 NC EE

	Total DOM Zone	VA Juris	VA Non-Juris	FERC	NC Juris
(1) Annual Energy (MWh)	88,531,837	71,341,077	11,241,319	1,556,428	4,393,014
(2) Less Non-participating Contract Classes and Exempt/Opt-out MS Customers	12,629,350	0	11,072,922	1,556,428	0
(3) Adjusted energy	75,902,487	71,341,077	168,397	0	4,393,014
(4) Factor 3 NC DSM	100.0000%	93.9904%	0.2219%	0.0000%	5.7877%

DOMINION ENERGY NORTH CAROLINA
ALLOCATION FACTORS FOR THE COSTS OF THE APPROVED DSM PROGRAMS TO THE CUSTOMER CLASSES
DOCKET NO. E-22, SUB 645

<u>Line</u>	<u>Name of Program</u>	<u>Program Category</u>	<u>Total Rider Revenue Requirement</u> <u>Customer Class Assignment or Allocation Factor</u>
1	Air Conditioner Cycling Program	Peak-Clipping	Assigned - Residential Class
2	Residential Income and Age Qualifying Home Improvement Program	Energy Efficiency	Assigned - Residential Class
3	Qualifying Small Business Improvement Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor (1)
4	Residential LED Lighting - NC Only	Energy Efficiency	Assigned - Residential Class
5	Non-Residential Prescriptive Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor (1)
6	Residential Appliance Recycling Program	Energy Efficiency	Assigned - Residential Class
7	Residential Efficient Products Marketplace Program	Energy Efficiency	Assigned - Residential Class
8	Residential Home Energy Assessment Program	Energy Efficiency	Assigned - Residential Class
9	Non-Residential Lighting Systems & Controls Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor (1)
10	Non-Residential Heating & Cooling Efficiency Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor (1)
11	Non-Residential Window Film Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor (1)
12	Non-Residential Small Manufacturing Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor (1)
13	Non-Residential Office Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor (1)
14	Residential Energy Efficient Kits Program	Energy Efficiency	Assigned - Residential Class
15	Residential Smart Thermostat Program (DR)	Peak-Clipping	Assigned - Residential Class
16	Residential Smart Thermostat (EE)	Energy Efficiency	Assigned - Residential Class
17	Residential Home Retrofit Program	Energy Efficiency	Assigned - Residential Class
18	Non Residential New Construction Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor (1)
19	Non Residential Small Business Improvement Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor (1)
20	Residential Income Age Qualifying Home Improvement Program	Energy Efficiency	Assigned - Residential Class
21	Residential Smart Home Program	Energy Efficiency	Assigned - Residential Class
22	Residential Virtual Audit Program	Energy Efficiency	Assigned - Residential Class
23	Residential Water Savings Program (EE)	Energy Efficiency	Assigned - Residential Class
24	Residential Water Savings Program (DR)	Peak-Clipping	Assigned - Residential Class
25	Non-Residential Building Automation Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor (1)
26	Non-Residential Building Optimization Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor (1)
27	Non-Residential Engagement Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor (1)
28	Non-Residential Prescriptive Program	Energy Efficiency	Allocated to Non-Residential Customers Using Energy Factor (1)

Note

1) Energy Allocation Factor for Test Year is Adjusted for Opt-Out customers and for customer classes not participating in the program (Residential, Street and Outdoor Lights, Traffic Lights). Allocation Factors are calculated in Company Exhibit CCH-1, Schedule 2, Page 2 for the EMF true-up and for the Projected Rate Period.

OFFICIAL COPY
Aug 09 2022

**DOMINION ENERGY NORTH CAROLINA
 FOR THE PROJECTED RATE PERIOD FOR RIDER C AND RIDER CE
 ADJUSTED FOR OPT - OUT CUSTOMERS AND CUSTOMER CLASSES NOT PARTICIPATING IN PROGRAMS
 TWELVE MONTHS ENDED DECEMBER 31, 2021
 DOCKET NO. E-22, SUB 645**

Dominion Energy North Carolina
 12 Months Ended December 31, 2021
 ICP Methodology - NC Class

Factor 1 NC DSM

	Total NC Class	Residential	SGS	LGS	6VP	Schedule NS	ST & Outdoor Lighting	Traffic Lighting
(1) CP (kW) loads at time of DOM Zone Peak (NSPL)	722,289	417,658	146,282	93,498	26,860	37,944	0	47
(2) Less Opt-out customers and directly assigned classes	530,665	417,658	1,388	46,767	26,860	37,944	0	47
(3) Adjusted CP loads	191,623	0	144,893	46,730	0	0	0	0
(4) Factor 1 NC DSM	100.0000%	0.0000%	75.6134%	24.3866%	0.0000%	0.0000%	0.0000%	0.0000%

Factor 3 NC EE

	Total NC Class	Residential	SGS	LGS	6VP	Schedule NS	ST & Outdoor Lighting	Traffic Lighting
(1) Annual Energy (MWh)	4,393,014	1,677,862	800,679	699,123	280,129	910,590	24,204	426
(2) Less Opt-out customers and directly assigned classes	3,257,391	1,677,862	9,451	354,728	280,129	910,590	24,204	426
(3) Adjusted energy	1,135,623	0	791,228	344,395	0	0	0	0
(4) Factor 3 NC DSM	100.0000%	0.0000%	69.6735%	30.3265%	0.0000%	0.0000%	0.0000%	0.0000%

ROBERTSON ENERGY NORTH CAROLINA
BANKER EXPERIENCE ENERGY FACTORY (RIVER CREEK) FOR THE WEST REGION JANUARY 1 2021 THROUGH DECEMBER 31 2021
ASSIGNMENT AND ALLOCATION TO CUSTOMER CLASSES
SCHEDULE NO. R21 009 045

North Carolina by electric
Class of Expenses
From R2100 No. JAW-1
From CE Sub 2 Pg 1 Ln 1-6

North Carolina by electric
Project Tax
From R2100 No. JAW-1
From CE Sub 2 Pg 1 Ln 7-8

North Carolina by electric
Deduction Expense
From R2100 No. JAW-1
From CE Sub 2 Pg 1 Ln 9

North Carolina by electric
Rate Base Costs
From R2100 No. JAW-1
From CE Sub 2 Pg 1 Ln 10

PPF
From R2100 No. JAW-1
From CE Sub 2 Pg 1 Ln 11

Operating Expense Description Rate Base Costs PPF	Total	North Carolina by electric Class of Expenses From R2100 No. JAW-1 From CE Sub 2 Pg 1 Ln 1-6	North Carolina by electric Project Tax From R2100 No. JAW-1 From CE Sub 2 Pg 1 Ln 7-8	North Carolina by electric Deduction Expense From R2100 No. JAW-1 From CE Sub 2 Pg 1 Ln 9	North Carolina by electric Rate Base Costs From R2100 No. JAW-1 From CE Sub 2 Pg 1 Ln 10	PPF From R2100 No. JAW-1 From CE Sub 2 Pg 1 Ln 11
1. Operating Expenses - Reproduction Rate Base Costs PPF						
Air Conditioning Cycling Program						
Residential Light and Program						
Residential Low Income Program (NC Only)						
Commercial HVAC Upgrade Program (NC Tax Big EMV Costs Only)						
Commercial Lighting Program (NC Taxing EMV Costs Only)						
Residential Heat Pump Turn-up Program						
Residential Heat Pump Upgrade Program						
Residential Heat Tracing & Sealing Program						
Residential Home Seal & Check-up Program						
Non-Residential Heat Tracing & Sealing Program						
Non-Residential Energy Audit Program						
Non-Residential Light and Controls Program (NC Only)						
Non-Residential Heat Tracing & Sealing Program (NC Only)						
Commercial Incentive & Age Qualifying Home Inspect - assist Program						
Residential LED Program (NC Only)						
Non-Residential Prescript - Program						
Residential Appliances Recycling Program						
Residential Efficient Products Marketplace Program						
Residential Home Energy Assessment Program						
Non-Residential Heat and Cool and Efficiency Program						
Non-Residential Light and Controls Program						
Non-Residential Heat Manufacturing Program						
Residential Energy Efficient EIA Program						
Residential Heat Tracing Program (DR)						
Residential Heat Tax Incentive (DR)						
Residential Home Retrofit Program						
Non-Residential Heat Tracing Program						
Non-Residential Heat Tracing Incentive Program						
Non-Residential Heat Tracing Incentive Program						
2. Reproduction Rate Base Costs PPF						
Air Conditioning Cycling Program						
Residential Light and Program						
Residential Low Income Program (NC Only)						
Commercial HVAC Upgrade Program (NC Tax Big EMV Costs Only)						
Commercial Lighting Program (NC Taxing EMV Costs Only)						
Residential Heat Pump Turn-up Program						
Residential Heat Pump Upgrade Program						
Residential Heat Tracing & Sealing Program						
Residential Home Seal & Check-up Program						
Non-Residential Heat Tracing & Sealing Program						
Non-Residential Energy Audit Program						
Non-Residential Light and Controls Program (NC Only)						
Non-Residential Heat Tracing & Sealing Program (NC Only)						
Commercial Incentive & Age Qualifying Home Inspect - assist Program						
Residential LED Program (NC Only)						
Non-Residential Prescript - Program						
Residential Appliances Recycling Program						
Residential Efficient Products Marketplace Program						
Residential Home Energy Assessment Program						
Non-Residential Heat and Cool and Efficiency Program						
Non-Residential Light and Controls Program						
Non-Residential Heat Manufacturing Program						
Residential Energy Efficient EIA Program						
Residential Heat Tracing Program (DR)						
Residential Heat Tax Incentive (DR)						
Residential Home Retrofit Program						
Non-Residential Heat Tracing Program						
Non-Residential Heat Tracing Incentive Program						
Non-Residential Heat Tracing Incentive Program						
3. Variable G&M In Exp						
From R2100 No. JAW-1 Rate Base Costs 2 Pg 1 Ln 1						
		Energy In Exp (G&M)	Allocation	From R2100 No. JAW-1 From CE Sub 2 Pg 1 Ln 1	Allocation of Variable G&M In Exp	
Allocation of Variable G&M Savings Based on Energy Savings (G&M)						
Air Conditioning Cycling Program		0	0.0000%		0.0000%	
Residential Light and Program		0	0.0000%		0.0000%	
Residential Low Income Program (NC Only)		0	0.0000%		0.0000%	
Commercial HVAC Upgrade Program (NC Tax Big EMV Costs Only)		0	0.0000%		0.0000%	
Commercial Lighting Program (NC Taxing EMV Costs Only)		0	0.0000%		0.0000%	
Residential Heat Pump Turn-up Program		0	0.0000%		0.0000%	
Residential Heat Pump Upgrade Program		0	0.0000%		0.0000%	
Residential Heat Tracing & Sealing Program		0	0.0000%		0.0000%	
Residential Home Seal & Check-up Program		0	0.0000%		0.0000%	
Non-Residential Heat Tracing & Sealing Program		0	0.0000%		0.0000%	
Non-Residential Energy Audit Program		0	0.0000%		0.0000%	
Non-Residential Light and Controls Program (NC Only)		8 442	13.0000%		13.0000%	
Non-Residential Heat Tracing & Sealing Program (NC Only)		151	0.2339%		0.2339%	
Commercial Incentive & Age Qualifying Home Inspect - assist Program		0	0.0000%		0.0000%	
Residential LED Program (NC Only)		58 883	1.2627%		1.2627%	
Non-Residential Prescript - Program		763 800	12.3666%		12.3666%	
Residential Appliances Recycling Program		0	0.0000%		0.0000%	
Residential Efficient Products Marketplace Program		1 043 254	17.0839%		17.0839%	
Residential Home Energy Assessment Program		4 228	0.738%		0.738%	
Non-Residential Heat and Cool and Efficiency Program		13 9	0.224%		0.224%	
Non-Residential Light and Controls Program		1 274	0.2214%		0.2214%	
Non-Residential Heat Manufacturing Program		1 527	0.254%		0.254%	
Residential Energy Efficient EIA Program		0	0.0000%		0.0000%	
Residential Heat Tracing Program (DR)		21 224	0.359%		0.359%	
Residential Heat Tax Incentive (DR)		29 474	0.497%		0.497%	
Residential Home Retrofit Program		0	0.0000%		0.0000%	
Non-Residential Heat Tracing Program		8 527	0.1370%		0.1370%	
Non-Residential Heat Tracing Incentive Program		0	0.0000%		0.0000%	
Non-Residential Heat Tracing Incentive Program		0	0.0000%		0.0000%	
Non-Residential Heat Tracing Incentive Program		33 651	0.5572%		0.5572%	
Total		6125 937	100.0000%			
J E P R R (E I L L L P)						
Air Conditioning Cycling Program		Residential				
Residential Light and Program		Residential				
Residential Low Income Program (NC Only)		Residential	87.1886%	Residential		
Commercial HVAC Upgrade Program (NC Tax Big EMV Costs Only)		Non-residential	67.7144%	Non-residential		
Commercial Lighting Program (NC Taxing EMV Costs Only)		Residential				
Residential Heat Pump Turn-up Program		Residential				
Residential Heat Pump Upgrade Program		Residential				
Residential Heat Tracing & Sealing Program		Residential				
Residential Home Seal & Check-up Program		Residential				
Non-Residential Heat Tracing & Sealing Program		Residential				
Non-Residential Energy Audit Program		Residential				
Non-Residential Light and Controls Program (NC Only)		Non-residential				
Non-Residential Heat Tracing & Sealing Program (NC Only)		Non-residential				
Commercial Incentive & Age Qualifying Home Inspect - assist Program		Non-residential				
Residential LED Program (NC Only)		Residential				
Non-Residential Prescript - Program		Residential				
Residential Appliances Recycling Program		Residential				
Residential Efficient Products Marketplace Program		Residential				
Residential Home Energy Assessment Program		Residential				
Non-Residential Heat and Cool and Efficiency Program		Non-residential				
Non-Residential Light and Controls Program		Non-residential				
Non-Residential Heat Manufacturing Program		Non-residential				
Residential Energy Efficient EIA Program		Residential				
Residential Heat Tracing Program (DR)		Residential				
Residential Heat Tax Incentive (DR)		Residential				
Residential Home Retrofit Program		Residential				
Non-Residential Heat Tracing Program		Non-residential				
Non-Residential Heat Tracing Incentive Program		Non-residential				
Non-Residential Heat Tracing Incentive Program		Non-residential				
Total From R2100 No. JAW-1 Rate Base Costs 2 Pg 1 Ln 1			100.0000%			

DOMINION ENERGY NORTH CAROLINA
DSM/EE EXPERIENCE MODIFICATION FACTOR (RIDER CE) FOR THE TEST PERIOD JANUARY 1, 2021 THROUGH DECEMBER 31, 2021
ASSIGNMENT AND ALLOCATION TO CUSTOMER CLASSES
DOCKET NO. E-22, SUB 645

OFFICIAL COPY
Aug 09 2022

<u>Line</u>								
1	Jurisdictional Program Revenue Requirement							
	<u>From Exhibit No CCH-1 Sch 3 Pg 1 Ln 4</u>							
	Residential Programs			\$1,957,040				
	Non-residential Programs			\$1,459,077				
	Jurisdictional Program Revenue Requirement JAW-1 Rider CE Sch 2 Pg 1 Ln 1			\$3,416,117				
2	<u>Monthly Rider C Revenues</u>							
	Residential Programs			\$1,422,010				
	Non-residential Programs			\$1,060,183				
	Monthly Revenue From Exhibit No JAW-1 Rider CE Sch 2 Pg 1 Ln 4			\$2,482,193				
3	<u>(Over) / Under Recovery (Ln 1 - Ln 2)</u>							
	Residential Programs			\$535,030				
	Non-residential Programs			\$398,894				
	(Over) / Under Recovery From Exhibit No JAW-1 Rider CE Sch 2 Pg 1 Ln 7			\$933,924				
4	<u>Deferred Income Tax</u>							
	Residential Programs			\$70,775				
	Non-residential Programs			\$52,767				
	Deferred Income Tax From Exhibit No JAW-1 Rider CE Sch 2 Pg 1 Ln 9			\$123,542				
5	<u>Net (Over) / Under Recovery (Ln 3 - Ln 4)</u>							
	Residential Programs			\$464,255				
	Non-residential Programs			\$346,127				
	Net (Over) / Under Recovery From all Programs			\$810,382				
6	Carrying Cost on Cumulative (Over) / Under Recovery							
	Residential Programs			\$7,607				
	Non-residential Programs			\$5,671				
	From Exhibit No JAW-1 Rider CE Sch 2 Pg 1 Ln 13			\$13,278				
7	Financing Costs Rider CE (Over)-recovery							
	Residential Programs			\$19,992				
	Non-residential Programs			\$14,905				
	From Exhibit No JAW-1 Rider CE Sch 2 Pg 1 Ln 15			\$34,897				
8	DSM EE/EMF to be (refunded)/collected during the							
	<u>Rate Period February 1, 2023 - January 31, 2024 (Ln 3 + Ln 6 + Ln 7)</u>							
	Residential Programs			\$562,629				
	Non-residential Programs			\$419,470				
	DSM EE/EMF to be (refunded)/collected							
	From Exhibit No JAW-1 Rider CE Sch 2 Pg 1 Ln 16			\$982,099				
9	Assignment / Allocation of DSM / EE EMF							
	<u>Rider CE Revenue Requirement to Customer Classes</u>							
	Residential Programs	\$562,629	\$562,629	\$0	\$0	\$0	\$0	\$0
	<u>Non-residential Programs</u>							
	Factor to Allocate Energy Efficiency Programs							
	From Exhibit No CCH-1 Sch 2 Pg 2	100 0000%	0 0000%	69 6735%	30 3265%	0 0000%	0 0000%	0 0000%
	Non-residential Programs	\$419,470	\$0	\$292,259	\$127,210	\$0	\$0	\$0
	Check			\$982,099				

**DOMINION ENERGY NORTH CAROLINA
 DSM/EE (RIDER C) FOR THE PROJECTED RATE PERIOD FEBRUARY 1, 2023 THROUGH JANUARY 31, 2024
 ASSIGNMENT AND ALLOCATION TO CUSTOMER CLASSES
 DOCKET NO. E-22, SUB 645**

Line								
1	NC Jurisdiction Program Revenue Requirement							
	<u>From Exhibit No. CCH-1 Sch 3 Pg 3 Ln 3</u>							
	Residential Programs		\$2,593,542					
	Non-residential Programs		\$1,391,582					
	NC Class Revenue Requirement		\$3,985,123					
		North Carolina		SGS			ST & Outdoor	Traffic
		Jurisdiction	Residential	Co & Muni	LGS	6 VP	Schedule NS	Lighting
							Lighting	Lighting
2	Assignment / Allocation of DSM / EE							
	<u>Rider C Revenue Requirement to NC Customer Classes</u>							
	Residential Programs	\$2,593,542	\$2,593,542	\$0	\$0	\$0	\$0	\$0
	Non-residential Programs							
	Factor to Allocate Energy Efficiency Programs							
	From Exhibit No. CCH-1 Sch 2 Pg 2	100.0000%	0.0000%	69.6735%	30.3265%	0.0000%	0.0000%	0.0000%
	Non-residential Programs	\$1,391,582	\$0	\$969,564	\$422,018	\$0	\$0	\$0
	Check							
			\$3,985,123					

OFFICIAL COPY
 Aug 09 2022

**DOMINION ENERGY NORTH CAROLINA
 DOCKET NO. E-22, SUB 645**

Rule R8-69(f) Filing Requirements and Procedure.

- (1) Each utility shall submit to the Commission all of the following information and data in its application:
 - ii) For each measure for which cost recovery is requested through the DSM/EE rider:
 - b. total costs that the utility does not expect to incur during the rate period as a direct result of the measure in the aggregate and broken down by type of cost, per appropriate capacity, energy and measure unit metric, and the proposed jurisdictional allocation factors, as well as any changes in the estimate future amounts since last filed with the Commission;

In the table below, the Company shows factors that allocate the total system expenses directly attributable to the measures which the Company requests cost recovery through the DSM/EE rider that are not expected to be incurred during the rate period February 1, 2023 through January 31, 2024. The demand allocation factor is based on the summer/winter peak and average methodology and is provided for the twelve months ended December 31, 2021. The energy allocation factor is provided for the twelve months ended December 31, 2021.

Program	NC Jurisdictional Demand Allocator	NC Jurisdictional Energy Allocator
Residential Lighting (PPI Only)	4.7727%	4.9621%
Air Conditioner Cycling Program	4.7727%	4.9621%
Residential NC Only Low Income Program	4.7727%	4.9621%
Commercial HVAC Upgrade Program	4.7727%	4.9621%
Commercial Lighting Program	4.7727%	4.9621%
Residential Heat Pump Tune-up Program	4.7727%	4.9621%
Residential Heat Pump Upgrade Program	4.7727%	4.9621%
Residential Duct Testing & Sealing Program	4.7727%	4.9621%
Residential Home Energy Check-Up Program	4.7727%	4.9621%
Non-Residential Duct Testing & Sealing Program	4.7727%	4.9621%

DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 645

Program	NC Jurisdictional Demand Allocator	NC Jurisdictional Energy Allocator
Non-Residential Energy Audit Program	4.7727%	4.9621%
Non-Residential Window Film Program	4.7727%	4.9621%
Non-Residential Heating & Cooling Efficiency Program	4.7727%	4.9621%
Non-Residential Lighting Systems & Controls Program	4.7727%	4.9621%
Residential Income and Age Qualifying Home Improvement Program	4.7727%	4.9621%
Qualifying Small Business Improvement Program	4.7727%	4.9621%
Residential LED Lighting - NC Only	4.7727%	4.9621%
Non-Residential Prescriptive Program	4.7727%	4.9621%
Residential Appliance Recycling Program	4.7727%	4.9621%
Residential Efficient Products Marketplace Program	4.7727%	4.9621%
Residential Home Energy Assessment Program	4.7727%	4.9621%
Non-Residential Lighting Systems & Controls Program	4.7727%	4.9621%
Non-Residential Heating & Cooling Efficiency Program	4.7727%	4.9621%
Non-Residential Window Film Program	4.7727%	4.9621%
Non-Residential Small Manufacturing Program	4.7727%	4.9621%
Non-Residential Office Program	4.7727%	4.9621%
Residential Energy Efficient Kits Program	4.7727%	4.9621%
Residential Smart Thermostat Program (DR)	4.7727%	4.9621%
Residential Smart Thermostat (EE)	4.7727%	4.9621%
Residential Home Retrofit Program	4.7727%	4.9621%
Non-Residential New Construction Program	4.7727%	4.9621%
Non-Residential Small Business Improvement Program	4.7727%	4.9621%
Residential Income Age Qualifying Home Improvement Program	4.7727%	4.9621%
Residential Smart Home Program	4.7727%	4.9621%
Residential Virtual Audit Program	4.7727%	4.9621%
Residential Water Savings Program (EE)	4.7727%	4.9621%
Residential Water Savings Program (DR)	4.7727%	4.9621%
Non-Residential Building Automation Program	4.7727%	4.9621%
Non-Residential Building Optimization Program	4.7727%	4.9621%
Non-Residential Engagement Program	4.7727%	4.9621%
Non-Residential Prescriptive Program	4.7727%	4.9621%

**DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 645**

Rule R8-69(f) Filing Requirements and Procedure.

- (1) Each utility shall submit to the Commission all of the following information and data in its application:
- viii) All workpapers supporting the calculations and adjustments described above:
-

Pages 4 - 5 of this Schedule 4 calculate the allocation factors listed below:

Used to Allocate System Expenses Not Expected to Be Incurred During the Rate Period

- 1) Factor 1 Summer Winter Peak and Average ("SWPA") - System to Jurisdiction
 - a. NC Juris = 4.7727%
- 2) Factor 3 - System to Jurisdiction
 - a. NC Juris = 4.9621%

DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 645
12 MONTHS ENDING DECEMBER 31, 2021
SUMMER WINTER PEAK AND AVERAGE

Dominion Energy North Carolina
12 Months Ending December 31, 2021
Summer Winter Peak & Average

FACTOR 1/61	Total System	VA Juris	VA Non-Juris	FERC	NC Juris
(1) Energy - Production	88,531,837	71,341,077	11,241,319	1,556,428	4,393,014
(2) Avg. Demand (Ln 1 / # hrs in year)	10,106,374	8,143,959	1,283,256	177,674	501,486
(3) Class Avg. Demand as % of System	100.0000%	80.5824%	12.6975%	1.7580%	4.9621%
(4) Winter Coincident Peak	14,615,224	12,253,853	1,488,943	185,725	686,703
Friday, January 29, 2021					
08:00					
(5) Summer Coincident Peak	17,116,379	14,422,809	1,750,600	220,682	722,289
Thursday, August 12, 2021					
18:00					
(6) Avg. Peak Demand [(Lns 4+5)/2]	15,865,802	13,338,331	1,619,771	203,204	704,496
(7) Avg. Peak Demand as % of System	100.0000%	84.0697%	10.2092%	1.2808%	4.4403%
(8) Sys. Ln 2 / Sys. Ln 6 =	6,437,670	5,187,629	817,422	113,177	319,442
Class Avg. Dem.% Ln 3 x	63.6991%	51.3303%	8.0882%	1.1199%	3.1608%
(9) 1 - Sys. Line 8 =	5,759,427	4,841,933	587,991	73,765	255,738
Class Avg. Pk. Dem. % Ln 7 x	36.3009%	30.5180%	3.7060%	0.4649%	1.6119%
(10) Factor 1/61 (8+ 9)	100.0000%	81.8483%	11.7942%	1.5848%	4.7727%
(11) Rounding		0.0000%	0.0000%	0.0000%	0.0000%
(12) Factor 1/61	100.0000%	81.8483%	11.7942%	1.5848%	4.7727%

DOMINION ENERGY NORTH CAROLINA
DOCKET NO. E-22, SUB 645
 12 MONTHS ENDING DECEMBER 31, 2021
 SUMMER WINTER PEAK AND AVERAGE

Dominion Energy North Carolina
 12 Months Ending December 31, 2021
 Summer Winter Peak & Average

FACTOR 3/63	Total System	VA Juris	VA Non-Juris	FERC	NC Juris
(1) Energy - Production	88,531,837	71,341,077	11,241,319	1,556,428	4,393,014
(2) Factor 3/63	100.0000%	80.5824%	12.6975%	1.7580%	4.9621%
		0.0000%	0.0000%	0.0000%	0.0000%
(3) Factor 3/63	100.0000%	80.5824%	12.6975%	1.7580%	4.9621%

**DIRECT TESTIMONY
OF
CASEY R. LAWSON
ON BEHALF OF
DOMINION ENERGY NORTH CAROLINA
BEFORE THE
NORTH CAROLINA UTILITIES COMMISSION
DOCKET NO. E-22, SUB 645**

OFFICIAL COPY

Aug 09 2022

1 **Q. Please state your name, business address, and your position with Virginia**
2 **Electric and Power Company (“Dominion Energy North Carolina” or the**
3 **“Company”).**

4 A. My name is Casey R. Lawson, and I am a Regulatory Analyst II for Dominion
5 Energy North Carolina. My business address is 120 Tredegar Street,
6 Richmond, Virginia 23219.

7 **Q. Please describe your area of responsibility with the Company.**

8 A. I provide support and analysis for base rate schedules and Demand-Side
9 Planning Riders for the Company’s retail jurisdictions. A statement of my
10 background and qualifications is attached as Appendix A.

11 **Q. What is the purpose of your testimony in this case?**

12 A. My testimony supports the Company’s request to recover all reasonable and
13 prudent costs incurred in adopting and implementing the Company’s portfolio
14 of North Carolina demand-side management (“DSM”) and energy efficiency
15 (“EE”) Programs (“DSM/EE programs” or “Programs”), and utility
16 incentives, through its updated Rider C, as well as the Company’s experience
17 modification factor (“EMF”) rider, Rider CE (“Application”). The purpose of
18 my testimony is to present the calculation of the updated DSM/EE Rider,

1 Rider C, and the EMF rider, Rider CE. Rider C is designed to recover during
2 the February 1, 2023 through January 31, 2024 period (“Rate Period”) the
3 Company’s reasonable and prudent costs incurred for the adoption and
4 implementation of the Company’s DSM/EE Programs during the Rate Period.
5 Rider CE will true up any over- or under-recovery for the period January 1,
6 2021 through December 31, 2021 (“Test Period”). The Company is
7 requesting the proposed riders, Rider C and Rider CE, become effective for
8 usage on and after February 1, 2023. Additionally, I provide the calculations
9 for the monthly residential and non-residential non-fuel average base rates that
10 have been used by Company Witness Justin A. Wooldridge in determining
11 gross lost revenues.

12 **Q. Ms. Lawson, are you sponsoring any exhibits or schedules in connection**
13 **with your testimony?**

14 A. Yes. Company Exhibit CRL-1, consisting of Schedules 1 through 17, was
15 prepared under my supervision and is accurate and complete to the best of my
16 knowledge and belief. I also provide my supporting workpapers as required
17 by Commission Rule R8-69(f)(i)(viii).

18 **Q. Would you please discuss the calculation of Rider C?**

19 A. Yes. The Company has calculated the Rider C rates in accordance with the
20 following methodology. To develop the Rider C rate applicable to each of the
21 Company’s customer classes, we must first determine forecasted kWh sales
22 for each customer class. For the North Carolina jurisdiction, the Company
23 only forecasts kWh sales and customers by “revenue class” (*i.e.*, Residential,

1 Commercial, Industrial, Public Authority, and Outdoor Street Lighting/Traffic
2 Signals), and this revenue class kWh sales forecast is shown on pages 1
3 through 3 of Schedule 1, as required by Rule R8-69(f)(1)(i). However, these
4 revenue classes are not perfectly aligned with the Company's customer
5 classes. Therefore, the Company must allocate the revenue classes' February
6 2023 through January 2024 forecasted kWh sales down to the customer class
7 level. This allocation was performed using 2019 through 2021 historical
8 monthly customer and kWh usage for each customer class to capture the
9 recent trends of kWh sales and the number of customers within each customer
10 class. This allocation by revenue class (and within revenue class by rate
11 schedule) is shown on pages 4 through 6 of my Schedule 1. The summary on
12 page 7 shows the allocation of the 12 months ended January 31, 2024,
13 forecasted kWh sales for each rate schedule, less the kWh sales for the
14 industrial and large commercial customers who have "opted out" under North
15 Carolina General Statutes § 62-133.9(f), to produce a net forecast. Pages 8
16 and 9 categorize the net forecasted rate schedule kWh sales into the seven
17 customer classes (*i.e.*, Residential, SGS, NS, LGS, 6VP, Outdoor/Street
18 Lighting, and Traffic Lighting customer classes).

19 The rates for Rider C have been derived based upon these net forecasted kWh
20 sales by customer class. Pages 10 and 11 of Schedule 1 detail the
21 development of the Rider C rate.

22 Page 10 of Schedule 1 shows the customer class allocated revenue
23 requirements associated with DSM/EE program costs that were provided by

1 Company Witness Christopher C. Hewett. By dividing these class revenue
2 requirements by their respective customer class forecasted kWh sales, we
3 have calculated customer class rates, which are then adjusted for the North
4 Carolina Regulatory Fee. Page 11 shows the rate schedules within their
5 associated customer class and provides their respective Rider C rate.

6 **Q. Have you provided projected North Carolina total retail monthly sales**
7 **for the Rate Period for the commercial and industrial customers who**
8 **have chosen to opt out of the DSM/EE Rider, as required by Rule**
9 **R8-69(f)(1)(vii)?**

10 A. Since the Company generally does not forecast kWh sales for individual
11 customers, we have used actual kWh sales from January 1, 2021 to December
12 31, 2021, as a proxy for the projected opt-out kWh sales for the Rate Period
13 for customers that have opted out as of June 30, 2022. Schedule 2 of my pre-
14 filed direct testimony contains the aggregated opt-out customer sales by
15 month.

16 **Q. Have you included the Company's proposed Rider C in Schedule 3 of**
17 **your pre-filed direct testimony?**

18 A. Yes. Schedule 3 is comprised of the tariff sheet showing the proposed
19 Rider C as required by Rule R8-69(f)(1)(vi), which, if approved as proposed,
20 would be applicable for usage on and after February 1, 2023.

1 **Q. Would you please discuss the calculation of Rider CE?**

2 A. Yes. The Company has calculated the Rider CE rates in accordance with the
3 same methodology as previously approved for calculating Rider C. The
4 allocated class Rider CE revenue requirements used in these calculations are
5 provided in Company Witness Hewett's Schedule 3. The forecasted kWh by
6 class and rate schedule for use in developing the Rider CE rates are the same
7 as described in the calculation of the Rider C rates. The results of these
8 calculations are shown in my Schedule 4. The corresponding tariff sheet for
9 the period February 1, 2023 to January 31, 2024, providing the Rider CE rates
10 is shown in my Schedule 5.

11 **Q. Would you explain how the proposed Riders C and CE will impact**
12 **customers' bills?**

13 A. For this comparison, the Company has used the Company's currently-
14 authorized base rates that went into effect November 1, 2019, in Docket No.
15 E-22, Sub 562, and the fuel rates authorized to go into effect February 1,
16 2022, in the Company's last fuel case, Docket No. E-22, Sub 605, to calculate
17 the customers' "current bill." For Rate Schedule 1 (residential), based on the
18 proposed February 1, 2023 effective date for Riders C and CE, for a customer
19 using 1,000 kWh per month, the weighted monthly residential bill (4 summer
20 months and 8 base months) would increase from \$112.98 to \$113.86, or by
21 0.78%. For Rate Schedule 5 (small general service), based on the proposed
22 February 1, 2023 effective date for Riders C and CE, for a customer using
23 12,500 kWh per month and 50 kW of demand, the weighted monthly bill

1 (4 summer months and 8 base months) would increase from \$1,099.55 to
2 \$1,108.52, or by 0.82%. For Rate Schedule 6P (large general service), based
3 on the proposed February 1, 2023 effective date for Riders C and CE, for a
4 customer using 259,200 kWh on-peak and 316,800 kWh off-peak per month
5 and 1,000 kW of demand, the monthly bill would increase from \$39,174.55 to
6 \$39,519.00, or by 0.88%.

7 **Q. For purposes of truing up lost revenues for the Test Period, would you**
8 **describe how the non-fuel average base rates were determined?**

9 A. Yes. We have calculated monthly non-fuel average base rates for the Test
10 Period for each DSM program. These monthly non-fuel average base rates
11 are provided to Company Witness Wooldridge, who in turn applies these rates
12 to the measured and verified kWh reductions that occurred during the Test
13 Period, as determined, and provided by Company Witness Edmund J. Hall.
14 In truing up gross lost revenues for the Residential Income and Age
15 Qualifying Program, the Residential Efficient Products Marketplace Program,
16 Residential Home Energy Assessment Program, Residential Energy
17 Efficiency Kits Program, and Residential Smart Thermostat Program (EE), we
18 used the actual participants' non-fuel base revenues and their kilowatt-hour
19 consumption for the period of January 1, 2021 to December 31, 2021, to
20 develop monthly average non-fuel base rates. These calculations are shown in
21 my Schedules 6 through 10.

- 1 **Q. Did you use the same methodology for the Non-Residential Programs in**
2 **truing up lost revenues for the Test Period?**
- 3 A. Yes. We used the actual participants' non-fuel base revenues and their
4 kilowatt-hour consumption for the applicable true up period to develop
5 monthly average non-fuel base rates. This analysis used the kWh
6 consumption for those customers who participated in the Non-Residential
7 Heating & Cooling Efficiency Program, the Non-Residential Lighting
8 Systems & Controls Program, the Non-Residential Small Business
9 Improvement Program, the Non-Residential Window Film Program, the Non-
10 Residential Prescriptive Program, the Non-Residential Office Program, and
11 the Non-Residential Small Business Improvement Enhanced Program shown
12 in Schedules 11 through 17 during the period of January 1, 2021 to December
13 31, 2021.
- 14 **Q. Does this conclude your pre-filed direct testimony?**
- 15 A. Yes, it does.

**BACKGROUND AND QUALIFICATIONS
OF
CASEY R. LAWSON**

Casey R. Lawson received a Bachelor of Science degree in Business Management from the Virginia Commonwealth University in 2018. Ms. Lawson joined the Customer Rates Department in 2018, beginning as an intern and then becoming a full-time employee as a Regulatory Analyst I in 2019. In June 2021, Ms. Lawson was promoted to her current position as a Regulatory Analyst II. Her responsibilities include providing support and analysis for the Company's regulatory filings in Virginia and North Carolina. Ms. Lawson has previously presented testimony before the State Corporation Commission of Virginia and the North Carolina Utilities Commission.

VIRGINIA ELECTRIC AND POWER COMPANY
 DOMINION ENERGY NORTH CAROLINA
 RIDER C
 FORECAST KWH SALES AND CUSTOMERS
 BY REVENUE CLASS
 12 MONTHS ENDED January 31, 2024

OFFICIAL COPY

Aug 09 2022

----- REVENUE CLASS=A. RESIDENTIAL -----

YR	MONTH	FORECAST CUST	FORECAST KWH
2023	2	107,762	169,521,745
2023	3	107,847	129,495,441
2023	4	107,893	78,098,379
2023	5	107,974	102,953,940
2023	6	108,084	144,398,199
2023	7	108,210	173,717,409
2023	8	108,367	159,096,130
2023	9	108,461	135,937,062
2023	10	108,572	107,547,104
2023	11	108,742	107,825,613
2023	12	108,925	161,609,713
2024	1	109,066	148,111,135
-----			-----
TOTAL			1,618,311,870

----- REVENUE CLASS=B. COMMERCIAL -----

YR	MONTH	FORECAST CUST	FORECAST KWH
2023	2	16,391	54,585,141
2023	3	16,406	48,655,003
2023	4	16,417	51,041,192
2023	5	16,433	57,236,066
2023	6	16,449	62,021,086
2023	7	16,463	72,562,873
2023	8	16,477	79,433,153
2023	9	16,487	66,403,454
2023	10	16,496	64,094,411
2023	11	16,508	57,453,827
2023	12	16,519	52,829,623
2024	1	16,526	55,912,287
-----			-----
TOTAL			722,228,117

VIRGINIA ELECTRIC AND POWER COMPANY
 DOMINION ENERGY NORTH CAROLINA
 RIDER C
 FORECAST KWH SALES AND CUSTOMERS
 BY REVENUE CLASS
 12 MONTHS ENDED January 31, 2024

----- REVENUE CLASS=C. INDUSTRIAL -----

YR	MONTH	FORECAST CUST	FORECAST KWH
2023	2	48	87,361,856
2023	3	48	195,509,584
2023	4	48	77,590,855
2023	5	48	147,220,311
2023	6	48	129,952,094
2023	7	48	182,388,210
2023	8	48	127,009,685
2023	9	48	123,844,835
2023	10	48	163,041,001
2023	11	48	203,946,154
2023	12	48	53,212,136
2024	1	48	131,547,777
-----			-----
TOTAL			1,622,624,498

----- REVENUE CLASS=D. OUTDOOR LIGHTING & TRAFFIC -----

YR	MONTH	FORECAST CUST	FORECAST KWH
2023	2	360	690,656
2023	3	360	456,741
2023	4	360	608,642
2023	5	359	581,614
2023	6	359	746,788
2023	7	359	576,608
2023	8	358	639,675
2023	9	358	552,583
2023	10	358	573,605
2023	11	357	591,624
2023	12	357	511,540
2024	1	357	624,659
-----			-----
TOTAL			7,154,734

VIRGINIA ELECTRIC AND POWER COMPANY
 DOMINION ENERGY NORTH CAROLINA
 RIDER C
 FORECAST KWH SALES AND CUSTOMERS
 BY REVENUE CLASS
 12 MONTHS ENDED January 31, 2024

OFFICIAL COPY

Aug 09 2022

----- REVENUE CLASS=E. PUBLIC AUTHORITY -----

YR	MONTH	FORECAST CUST	FORECAST KWH
2023	2	1,984	12,512,231
2023	3	1,984	14,334,008
2023	4	1,984	10,314,855
2023	5	1,983	10,765,805
2023	6	1,980	12,825,498
2023	7	1,976	14,503,336
2023	8	1,981	15,027,561
2023	9	1,987	13,477,290
2023	10	1,992	12,248,672
2023	11	1,995	11,172,028
2023	12	1,996	10,779,064
2024	1	1,991	12,983,585
-----			-----
TOTAL			150,943,933
			=====
			4,121,263,151

VIRGINIA ELECTRIC AND POWER COMPANY
 DOMINION ENERGY NORTH CAROLINA
 RIDER C
 FORECAST KWH SALES BY REVENUE CLASS AND RATE SCHEDULE

OFFICIAL COPY

Aug 09 2022

----- REVENUE CLASS=A. RESIDENTIAL -----

	12 MOS ENDED 01/31/2024 FORECAST KWH
RATE SCHEDULE	
1DF	2,393,256
1	1,594,155,455
1P	13,210,022
1T	619,545
1W	90,029
26	7,843,562
-----	-----
RC	1,618,311,870

----- REVENUE CLASS=B. COMMERCIAL -----

	12 MOS ENDED 01/31/2024 FORECAST KWH
RATE SCHEDULE	
5	469,135,545
5C	5,861,511
5P	122,918,480
7	925,990
6C	1,869,584
6P	70,849,076
10	42,547,717
26	8,120,213
-----	-----
RC	722,228,117

----- REVENUE CLASS=C. INDUSTRIAL -----

	12 MOS ENDED 01/31/2024 FORECAST KWH
RATE SCHEDULE	
5	9,152,175
5P	2,681,110
6P	74,261,179

* SCHEDULE NS & SCHEDULE 6VP ARE ACTUAL KWH FOR THE 12 MONTHS ENDING DECEMBER 2021.

VIRGINIA ELECTRIC AND POWER COMPANY
 DOMINION ENERGY NORTH CAROLINA
 RIDER C
 FORECAST KWH SALES BY REVENUE CLASS AND RATE SCHEDULE

OFFICIAL COPY

Aug 09 2022

----- REVENUE CLASS=C. INDUSTRIAL -----

(continued)

RATE SCHEDULE	12 MOS ENDED 01/31/2024 FORECAST KWH
6L	398,479,468
6VP	273,210,692
10	115,198,723
NS	900,865,194
26	383,696
-----	-----
RC	1,774,232,236

----- REVENUE CLASS=D. OUTDOOR LIGHTING & TRAFFIC -----

RATE SCHEDULE	12 MOS ENDED 01/31/2024 FORECAST KWH
30T	436,037
26	6,718,696
-----	-----
RC	7,154,734

----- REVENUE CLASS=E. PUBLIC AUTHORITY -----

RATE SCHEDULE	12 MOS ENDED 01/31/2024 FORECAST KWH
5P	5,221,265
6C	3,205,164
6P	1,336,457
30	90,986,044
42	49,755,631
26	439,373
-----	-----
RC	150,943,933

* SCHEDULE NS & SCHEDULE 6VP ARE ACTUAL KWH FOR THE 12 MONTHS ENDING DECEMBER 2021.

VIRGINIA ELECTRIC AND POWER COMPANY
DOMINION ENERGY NORTH CAROLINA
RIDER C
FORECAST KWH SALES BY REVENUE CLASS AND RATE SCHEDULE

----- REVENUE CLASS=E. PUBLIC AUTHORITY -----

(continued)

RATE	12 MOS ENDED
SCHEDULE	01/31/2024
	FORECAST KWH

=====
4,272,870,890

* SCHEDULE NS & SCHEDULE 6VP ARE ACTUAL KWH FOR THE 12 MONTHS ENDING DECEMBER 2021.

OFFICIAL COPY

Aug 09 2022

VIRGINIA ELECTRIC AND POWER COMPANY
 DOMINION ENERGY NORTH CAROLINA
 RIDER C
 SUMMARY OF FORECAST NET KWH SALES BY RATE SCHEDULE

RATE SCHEDULE	12 MOS ENDED	OPT OUT KWH	12 MOS ENDED
	01/31/2024 FORECAST KWH		01/31/2024 NET FORECAST KWH
1DF	2,393,256	0	2,393,256
1	1,594,155,455	0	1,594,155,455
1P	13,210,022	0	13,210,022
1T	619,545	0	619,545
1W	90,029	0	90,029
5	478,287,720	3,835,909	474,451,811
5C	5,861,511	0	5,861,511
5P	130,820,855	5,152,935	125,667,920
7	925,990	0	925,990
6C	5,074,748	0	5,074,748
6P	146,446,712	38,364,025	108,082,687
6L	398,479,468	278,088,806	120,390,662
6VP	273,210,692	273,210,692	0
10	157,746,440	24,234,028	133,512,412
30	90,986,044	0	90,986,044
30T	436,037	0	436,037
42	49,755,631	0	49,755,631
NS	900,865,194	900,865,194	0
26	23,505,540	0	23,505,540
	=====	=====	=====
	4,272,870,890	1,523,751,589	2,749,119,301

* SCHEDULE NS & SCHEDULE 6VP ARE ACTUAL KWH FOR THE 12 MONTHS ENDING DECEMBER 2021.

OFFICIAL COPY

Aug 09 2022

VIRGINIA ELECTRIC AND POWER COMPANY
 DOMINION ENERGY NORTH CAROLINA
 RIDER C
 REFLECTS FORECASTED NET KWH SALES
 12 MONTHS ENDED January 31, 2024
 KWH CATEGORIZED BY CUSTOMER CLASSES AND RATES SCHEDULES

OFFICIAL COPY

Aug 09 2022

----- CUSTOMER CLASS=RESIDENTIAL -----

RATE SCHEDULE	12 MOS ENDED 01/31/2024 NET FORECAST KWH
1	1,594,155,455
1DF	2,393,256
1P	13,210,022
1T	619,545
1W	90,029
-----	-----
CLASS	1,610,468,308

----- CUSTOMER CLASS=SMALL GENERAL SERVICE & PUBLIC AUTHORITY -----

RATE SCHEDULE	12 MOS ENDED 01/31/2024 NET FORECAST KWH
30	90,986,044
42	49,755,631
5	474,451,811
5P	125,667,920
7	925,990
-----	-----
CLASS	741,787,396

----- CUSTOMER CLASS=LARGE GENERAL SERVICE -----

RATE SCHEDULE	12 MOS ENDED 01/31/2024 NET FORECAST KWH
10	133,512,412
5C	5,861,511
6C	5,074,748
6L	120,390,662
6P	108,082,687
-----	-----
CLASS	372,922,019

VIRGINIA ELECTRIC AND POWER COMPANY
 DOMINION ENERGY NORTH CAROLINA
 RIDER C
 REFLECTS FORECASTED NET KWH SALES
 12 MONTHS ENDED January 31, 2024
 KWH CATEGORIZED BY CUSTOMER CLASSES AND RATES SCHEDULES

----- CUSTOMER CLASS=6VP -----

RATE SCHEDULE	12 MOS ENDED 01/31/2024 NET FORECAST KWH
6VP	0

----- CUSTOMER CLASS=NS -----

RATE SCHEDULE	12 MOS ENDED 01/31/2024 NET FORECAST KWH
NS	0

----- CUSTOMER CLASS=OUTDOOR LIGHTING -----

RATE SCHEDULE	12 MOS ENDED 01/31/2024 NET FORECAST KWH
26	23,505,540

----- CUSTOMER CLASS=TRAFFIC LIGHTING -----

RATE SCHEDULE	12 MOS ENDED 01/31/2024 NET FORECAST KWH
30T	436,037
	=====
	2,749,119,301

VIRGINIA ELECTRIC AND POWER COMPANY
 DOMINION ENERGY NORTH CAROLINA
 RIDER C

ALLOCATION OF NC JURISDICTIONAL REVENUE REQUIREMENT
 TO THE CUSTOMER CLASSES AND CALCULATION OF RIDER C CUSTOMER CLASS RATES
 REFLECTS FORECASTED NET KWH SALES

CUSTOMER CLASS	CUST CLASS ALLOCATED REVENUE REQ(1)	12 MOS ENDED 01/31/2024 NET FORECAST KWH	CUSTOMER CLASS RATE W/OUT REG FEE	CUSTOMER CLASS RATE WITH REG FEE
RESIDENTIAL	\$2,593,542	1,610,468,308	\$0.001610	\$0.001613
SMALL GENERAL SERVICE & PUBLIC AUTHORITY	\$969,564	741,787,396	\$0.001307	\$0.001309
LARGE GENERAL SERVICE	\$422,018	372,922,019	\$0.001132	\$0.001133
6VP	\$0	0	0	0
NS	\$0	0	0	0
OUTDOOR LIGHTING	\$0	23,505,540	\$0.000000	\$0.000000
TRAFFIC LIGHTING	\$0	436,037	\$0.000000	\$0.000000
	=====	=====		
	\$3,985,123	2,749,119,301		

(1) FROM CCH SCHEDULE 3 PAGE 4

**VIRGINIA ELECTRIC AND POWER COMPANY
 DOMINION ENERGY NORTH CAROLINA
 RATES SCHEDULES BY CUSTOMER CLASS
 (RIDER C RATES INCLUDE NORTH CAROLINA REGULATORY FEE)**

CUSTOMER CLASS	RATE SCHEDULE	RIDER C RATE
RESIDENTIAL	1	\$0.001613
	1DF	\$0.001613
	1P	\$0.001613
	1T	\$0.001613
	1W	\$0.001613
SMALL GENERAL SERVICE & PUBLIC AUTHORITY	30	\$0.001309
	42	\$0.001309
	5	\$0.001309
	5C	\$0.001309
	5P	\$0.001309
	7	\$0.001309
LARGE GENERAL SERVICE	10	\$0.001133
	6C	\$0.001133
	6P	\$0.001133
	6L	\$0.001133
	RTP With Customer Baseline Load	\$0.001133
	RTP Economic Development	\$0.001133
6VP	6VP	\$ -
NS	NS	\$ -
OUTDOOR LIGHTING	26	\$ -
TRAFFIC LIGHTING	30T	\$ -

**VIRGINIA ELECTRIC AND POWER COMPANY
DOMINION ENERGY NORTH CAROLINA
OPT-OUT NON-RESIDENTIAL CUSTOMERS**

Month	Year	Total Monthly KWH
January	2021	123,600,154
February	2021	122,484,953
March	2021	113,586,898
April	2021	135,239,724
May	2021	142,806,925
June	2021	130,921,418
July	2021	144,855,676
August	2021	135,065,163
September	2021	139,617,868
October	2021	112,355,643
November	2021	112,282,221
December	2021	110,934,946
TOTAL		1,523,751,589

RIDER CDEMAND SIDE MANAGEMENT/ENERGY EFFICIENCY RIDER

The following Dominion Energy North Carolina filed Rate Schedules shall be increased by the applicable cents per kilowatt-hour charge.

Rate Schedule	Cents per kWh Charge
Schedule 1	0.1613 ¢/kWh
Schedule 1DF	0.1613 ¢/kWh
Schedule 1P	0.1613 ¢/kWh
Schedule 1T	0.1613 ¢/kWh
Schedule 1W	0.1613 ¢/kWh
Schedule 5	0.1309 ¢/kWh
Schedule 5C	0.1309 ¢/kWh
Schedule 5P	0.1309 ¢/kWh
Schedule 6C	0.1133 ¢/kWh
Schedule 6L	0.1133 ¢/kWh
Schedule 6P	0.1133 ¢/kWh
Schedule 6VP	0.0000 ¢/kWh
Schedule 7	0.1309 ¢/kWh
Schedule LGS RTP With Customer Baseline Load	0.1133 ¢/kWh
Schedule LGS – RTP Economic Development	0.1133 ¢/kWh
Schedule NS	0.0000 ¢/kWh
Schedule 10	0.1133 ¢/kWh
Schedule 26	0.0000 ¢/kWh
Schedule 30	0.1309 ¢/kWh
Schedule 30T	0.0000 ¢/kWh
Schedule 42	0.1309 ¢/kWh

VIRGINIA ELECTRIC AND POWER COMPANY
 DOMINION ENERGY NORTH CAROLINA
 RIDER CE

ALLOCATION OF NC JURISDICTIONAL REVENUE REQUIREMENT
 TO THE CUSTOMER CLASSES AND CALCULATION OF RIDER CE CUSTOMER CLASS RATES
 REFLECTS FORECASTED NET KWH SALES

CUSTOMER CLASS	CUST CLASS ALLOCATED REVENUE REQ(1)	12 MOS ENDED 01/31/2024 NET FORECAST KWH	CUSTOMER CLASS RATE W/OUT REG FEE	CUSTOMER CLASS RATE WITH REG FEE
RESIDENTIAL	\$562,629	1,610,468,308	\$0.000349	\$0.000350
SMALL GENERAL SERVICE & PUBLIC AUTHORITY	\$292,259	741,787,396	\$0.000394	\$0.000395
LARGE GENERAL SERVICE	\$127,210	372,922,019	\$0.000341	\$0.000342
6VP	\$0	0	0	0
NS	\$0	0	0	0
OUTDOOR LIGHTING	\$0	23,505,540	\$0.000000	\$0.000000
TRAFFIC LIGHTING	\$0	436,037	\$0.000000	\$0.000000
	=====	=====		
	\$982,099	2,749,119,301		

(1) FROM CCH SCHEDULE 3 PAGE 2

**VIRGINIA ELECTRIC AND POWER COMPANY
 DOMINION ENERGY NORTH CAROLINA
 RATES SCHEDULES BY CUSTOMER CLASS
 (RIDER CE RATES INCLUDE NORTH CAROLINA REGULATORY FEE)**

CUSTOMER CLASS	RATE SCHEDULE	RIDER CE RATE
RESIDENTIAL	1	\$0.000350
	1DF	\$0.000350
	1P	\$0.000350
	1T	\$0.000350
	1W	\$0.000350
SMALL GENERAL SERVICE & PUBLIC AUTHORITY	30	\$0.000395
	42	\$0.000395
	5	\$0.000395
	5C	\$0.000395
	5P	\$0.000395
	7	\$0.000395
LARGE GENERAL SERVICE	10	\$0.000342
	6C	\$0.000342
	6P	\$0.000342
	6L	\$0.000342
	RTP With Customer Baseline Load	\$0.000342
	RTP Economic Development	\$0.000342
6VP	6VP	\$ -
NS	NS	\$ -
OUTDOOR LIGHTING	26	\$ -
TRAFFIC LIGHTING	30T	\$ -

RIDER CE
DSM/EE EXPERIENCE MODIFICATION FACTOR
(DSM/EE EMF)

The following Dominion Energy North Carolina filed Rate Schedules shall be increased by the applicable cents per kilowatt-hour charge.

Rate Schedule	Cents per kWh Charge
Schedule 1	0.0350 ¢/kWh
Schedule 1DF	0.0350 ¢/kWh
Schedule 1P	0.0350 ¢/kWh
Schedule 1T	0.0350 ¢/kWh
Schedule 1W	0.0350 ¢/kWh
Schedule 5	0.0395 ¢/kWh
Schedule 5C	0.0395 ¢/kWh
Schedule 5P	0.0395 ¢/kWh
Schedule 6C	0.0342 ¢/kWh
Schedule 6L	0.0342 ¢/kWh
Schedule 6P	0.0342 ¢/kWh
Schedule 6VP	0.0000 ¢/kWh
Schedule 7	0.0395 ¢/kWh
Schedule LGS - RTP With Customer Baseline Load	0.0342 ¢/kWh
Schedule LGS - RTP Economic Development	0.0342 ¢/kWh
Schedule NS	0.0000 ¢/kWh
Schedule 10	0.0342 ¢/kWh
Schedule 26	0.0000 ¢/kWh
Schedule 30	0.0395 ¢/kWh
Schedule 30T	0.0000 ¢/kWh
Schedule 42	0.0395 ¢/kWh

Filed 08-09-22
Electric-North Carolina

Superseding Filing Effective For Usage On and After 02-01-22.
This Filing Effective For Usage On and After 02-01-23.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL INCOME & AGE QUALIFYING HOME IMPROVEMENT PROGRAM

RATE SCHEDULE 1

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	305,599	\$22,181	\$0.07258
2	2021	2	400,044	\$29,038	\$0.07259
3	2021	3	532,501	\$38,620	\$0.07253
4	2021	4	286,154	\$20,756	\$0.07253
5	2021	5	137,725	\$9,993	\$0.07256
6	2021	6	345,719	\$30,064	\$0.08696
7	2021	7	316,050	\$27,495	\$0.08700
8	2021	8	323,250	\$28,122	\$0.08700
9	2021	9	304,229	\$26,467	\$0.08700
10	2021	10	222,145	\$16,108	\$0.07251
11	2021	11	229,022	\$16,604	\$0.07250
12	2021	12	217,966	\$15,817	\$0.07257

* All participants were served under Schedule 1, therefore Base Revenue reflects Rate Schedule 1 non-fuel revenues excluding the Basic Customer Charge and excludes base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL EFFICIENT PRODUCTS MARKETPLACE PROGRAM

SUMMARY

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	1,032,662	\$74,668	\$0.07231
2	2021	2	1,200,286	\$86,668	\$0.07221
3	2021	3	1,157,586	\$83,713	\$0.07232
4	2021	4	809,431	\$58,536	\$0.07232
5	2021	5	761,710	\$55,085	\$0.07232
6	2021	6	1,232,882	\$106,918	\$0.08672
7	2021	7	1,452,607	\$126,016	\$0.08675
8	2021	8	1,533,574	\$133,022	\$0.08674
9	2021	9	1,423,022	\$123,382	\$0.08670
10	2021	10	961,788	\$69,522	\$0.07228
11	2021	11	691,219	\$50,006	\$0.07235
12	2021	12	973,351	\$70,379	\$0.07231

* Base Revenue reflects Schedule 1, 1P, and 1T non-fuel revenues, excluding Basic Customer Charge and excludes base fuel, Rider A and Rider B fuel rates.

** Columns (C) & (D) are the sum of the kWh and the base revenue shown in Schedule 7 on pages 2 to 4 in Columns (C) & (D) of each rate table.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL EFFICIENT PRODUCTS MARKETPLACE PROGRAM

RATE SCHEDULE 1

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	1,023,905	\$74,192	\$0.07246
2	2021	2	1,184,532	\$85,776	\$0.07241
3	2021	3	1,147,712	\$83,077	\$0.07238
4	2021	4	801,347	\$58,023	\$0.07241
5	2021	5	753,826	\$54,599	\$0.07243
6	2021	6	1,219,282	\$105,885	\$0.08684
7	2021	7	1,440,042	\$125,117	\$0.08688
8	2021	8	1,520,624	\$132,074	\$0.08686
9	2021	9	1,409,913	\$122,480	\$0.08687
10	2021	10	953,030	\$69,002	\$0.07240
11	2021	11	686,097	\$49,694	\$0.07243
12	2021	12	964,250	\$69,816	\$0.07240

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL EFFICIENT PRODUCTS MARKETPLACE PROGRAM

RATE SCHEDULE 1P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	8,757	\$476	\$0.05437
2	2021	2	12,102	\$634	\$0.05237
3	2021	3	6,843	\$421	\$0.06147
4	2021	4	5,780	\$344	\$0.05954
5	2021	5	5,714	\$332	\$0.05814
6	2021	6	7,783	\$551	\$0.07074
7	2021	7	8,579	\$586	\$0.06829
8	2021	8	8,824	\$610	\$0.06909
9	2021	9	9,818	\$645	\$0.06575
10	2021	10	6,644	\$368	\$0.05541
11	2021	11	5,122	\$313	\$0.06108
12	2021	12	6,099	\$361	\$0.05914

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL EFFICIENT PRODUCTS MARKETPLACE PROGRAM

RATE SCHEDULE 1T

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1			\$0.00000
2	2021	2	3,652	\$258	\$0.07065
3	2021	3	3,031	\$216	\$0.07122
4	2021	4	2,304	\$169	\$0.07346
5	2021	5	2,170	\$154	\$0.07107
6	2021	6	5,817	\$483	\$0.08299
7	2021	7	3,986	\$312	\$0.07838
8	2021	8	4,126	\$338	\$0.08184
9	2021	9	3,291	\$256	\$0.07785
10	2021	10	2,114	\$152	\$0.07172
11	2021	11			\$0.00000
12	2021	12	3,002	\$203	\$0.06753

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

*** One customer on Schedule 1T participated in the Residential Efficient Products Marketplace Program. Because of the timing of that customer's billing cycle, certain months show no usage or revenue.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL HOME ENERGY ASSESSMENT PROGRAM

RATE SCHEDULE 1

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	36,730	\$2,667	\$0.07262
2	2021	2	43,423	\$3,153	\$0.07262
3	2021	3	68,084	\$4,938	\$0.07253
4	2021	4	28,159	\$2,044	\$0.07257
5	2021	5	29,216	\$2,120	\$0.07256
6	2021	6	70,013	\$6,096	\$0.08707
7	2021	7	69,296	\$6,032	\$0.08704
8	2021	8	69,781	\$6,076	\$0.08708
9	2021	9	60,448	\$5,263	\$0.08707
10	2021	10	37,829	\$2,746	\$0.07258
11	2021	11	21,070	\$1,528	\$0.07252
12	2021	12	41,593	\$3,019	\$0.07259

* All participants were served under Schedule 1, therefore Base Revenue reflects Rate Schedule 1 non-fuel revenues excluding the Basic Customer Charge and excludes base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL ENERGY EFFICIENCY KITS PROGRAM

SUMMARY

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	1,039,025	\$75,446	\$0.07261
2	2021	2	1,241,075	\$90,106	\$0.07260
3	2021	3	1,349,590	\$98,047	\$0.07265
4	2021	4	899,145	\$65,295	\$0.07262
5	2021	5	821,161	\$59,614	\$0.07260
6	2021	6	1,477,384	\$128,648	\$0.08708
7	2021	7	1,710,684	\$148,911	\$0.08705
8	2021	8	1,855,787	\$161,512	\$0.08703
9	2021	9	1,812,271	\$157,750	\$0.08705
10	2021	10	1,260,200	\$91,436	\$0.07256
11	2021	11	990,278	\$71,878	\$0.07258
12	2021	12	1,430,670	\$103,873	\$0.07260

* Base Revenue reflects Schedule 1 and 1P non-fuel revenues, excluding Basic Customer Charge and excludes base fuel, Rider A and Rider B fuel rates.

** Columns (C) & (D) are the sum of the kWh and the base revenue shown in Schedule 9 on pages 2 to 3 in Columns (C) & (D) of each rate table.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL ENERGY EFFICIENCY KITS PROGRAM

RATE SCHEDULE 1

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	1,035,087	\$75,164	\$0.07262
2	2021	2	1,236,244	\$89,771	\$0.07262
3	2021	3	1,346,508	\$97,768	\$0.07261
4	2021	4	896,033	\$65,065	\$0.07261
5	2021	5	817,829	\$59,381	\$0.07261
6	2021	6	1,471,919	\$128,235	\$0.08712
7	2021	7	1,703,697	\$148,433	\$0.08712
8	2021	8	1,847,826	\$160,989	\$0.08712
9	2021	9	1,804,853	\$157,247	\$0.08712
10	2021	10	1,256,253	\$91,216	\$0.07261
11	2021	11	987,129	\$71,680	\$0.07261
12	2021	12	1,427,059	\$103,619	\$0.07261

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL ENERGY EFFICIENCY KITS PROGRAM

RATE SCHEDULE 1P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	3,938	\$282	\$0.07169
2	2021	2	4,831	\$334	\$0.06924
3	2021	3	3,082	\$278	\$0.09031
4	2021	4	3,112	\$230	\$0.07385
5	2021	5	3,332	\$233	\$0.07005
6	2021	6	5,465	\$413	\$0.07566
7	2021	7	6,987	\$478	\$0.06836
8	2021	8	7,961	\$523	\$0.06566
9	2021	9	7,418	\$503	\$0.06778
10	2021	10	3,947	\$219	\$0.05558
11	2021	11	3,149	\$199	\$0.06317
12	2021	12	3,611	\$254	\$0.07028

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL SMART THERMOSTAT PROGRAM (EE)

SUMMARY

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	23,542	\$1,583	\$0.06722
2	2021	2	28,009	\$1,952	\$0.06968
3	2021	3	27,101	\$1,980	\$0.07306
4	2021	4	23,392	\$1,700	\$0.07268
5	2021	5	26,929	\$1,915	\$0.07111
6	2021	6	38,700	\$3,278	\$0.08469
7	2021	7	50,057	\$4,154	\$0.08299
8	2021	8	50,188	\$4,211	\$0.08391
9	2021	9	47,640	\$3,985	\$0.08366
10	2021	10	36,254	\$2,561	\$0.07065
11	2021	11	25,188	\$1,805	\$0.07168
12	2021	12	30,006	\$2,151	\$0.07167

* Base Revenue reflects Schedule 1 and 1P non-fuel revenues, excluding Basic Customer Charge and excludes base fuel, Rider A and Rider B fuel rates.

** Columns (C) & (D) are the sum of the kWh and the base revenue shown in Schedule 10 on pages 2 to 3 in Columns (C) & (D) of each rate table.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL SMART THERMOSTAT PROGRAM (EE)

RATE SCHEDULE 1

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	17,511	\$1,272	\$0.07262
2	2021	2	22,164	\$1,609	\$0.07262
3	2021	3	23,349	\$1,696	\$0.07262
4	2021	4	19,890	\$1,444	\$0.07262
5	2021	5	23,392	\$1,699	\$0.07262
6	2021	6	33,085	\$2,883	\$0.08713
7	2021	7	42,446	\$3,698	\$0.08713
8	2021	8	43,252	\$3,769	\$0.08713
9	2021	9	41,430	\$3,610	\$0.08713
10	2021	10	31,086	\$2,257	\$0.07262
11	2021	11	21,632	\$1,571	\$0.07262
12	2021	12	25,033	\$1,818	\$0.07262

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

RESIDENTIAL SMART THERMOSTAT PROGRAM (EE)

RATE SCHEDULE 1P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	6,031	\$311	\$0.05156
2	2021	2	5,845	\$342	\$0.05856
3	2021	3	3,752	\$284	\$0.07579
4	2021	4	3,502	\$256	\$0.07307
5	2021	5	3,537	\$216	\$0.06118
6	2021	6	5,615	\$395	\$0.07032
7	2021	7	7,611	\$456	\$0.05986
8	2021	8	6,936	\$442	\$0.06378
9	2021	9	6,210	\$376	\$0.06048
10	2021	10	5,168	\$304	\$0.05882
11	2021	11	3,556	\$235	\$0.06595
12	2021	12	4,973	\$333	\$0.06693

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL HEATING & COOLING EFFICIENCY

SUMMARY

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	1,719,127	\$83,242	\$0.04842
2	2021	2	1,914,640	\$98,819	\$0.05161
3	2021	3	2,021,212	\$105,055	\$0.05198
4	2021	4	2,030,987	\$100,577	\$0.04952
5	2021	5	1,723,842	\$85,281	\$0.04947
6	2021	6	2,499,177	\$150,240	\$0.06012
7	2021	7	2,752,288	\$213,700	\$0.07764
8	2021	8	2,789,773	\$222,350	\$0.07970
9	2021	9	2,681,840	\$193,123	\$0.07201
10	2021	10	2,274,149	\$114,146	\$0.05019
11	2021	11	1,824,830	\$93,407	\$0.05119
12	2021	12	1,587,245	\$79,759	\$0.05025

* Base Revenue reflects Schedule 10, 30, 42, 5, 5P, and 6P non-fuel revenues, excluding Basic Customer Charge and excludes base fuel, Rider A and Rider B fuel rates.

** Columns (C) & (D) are the sum of the kWh and the base revenue shown in Schedule 11 on pages 2 to 7 in Columns (C) & (D) of each rate table.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL HEATING & COOLING EFFICIENCY

RATE SCHEDULE 10

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	1,333,121	\$53,502	\$0.04013
2	2021	2	1,344,507	\$61,372	\$0.04565
3	2021	3	1,296,427	\$51,140	\$0.03945
4	2021	4	1,434,106	\$53,101	\$0.03703
5	2021	5	1,270,210	\$43,262	\$0.03406
6	2021	6	1,499,519	\$62,676	\$0.04180
7	2021	7	1,791,999	\$137,185	\$0.07655
8	2021	8	1,688,463	\$136,581	\$0.08089
9	2021	9	1,656,565	\$108,489	\$0.06549
10	2021	10	1,462,376	\$54,107	\$0.03700
11	2021	11	1,234,587	\$48,665	\$0.03942
12	2021	12	1,192,386	\$45,346	\$0.03803

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL HEATING & COOLING EFFICIENCY

RATE SCHEDULE 30

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	38,880	\$2,575	\$0.06624
2	2021	2	33,840	\$1,991	\$0.05885
3	2021	3	39,600	\$2,407	\$0.06079
4	2021	4	46,800	\$3,126	\$0.06679
5	2021	5	51,120	\$3,556	\$0.06956
6	2021	6	69,120	\$4,910	\$0.07103
7	2021	7	89,280	\$5,789	\$0.06485
8	2021	8	85,680	\$5,520	\$0.06443
9	2021	9	98,640	\$6,390	\$0.06478
10	2021	10	73,440	\$4,544	\$0.06188
11	2021	11	53,280	\$3,735	\$0.07010
12	2021	12	43,920	\$2,959	\$0.06738

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL HEATING & COOLING EFFICIENCY

RATE SCHEDULE 42

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	50,400	\$2,695	\$0.05346
2	2021	2	261,560	\$13,421	\$0.05131
3	2021	3	407,200	\$21,411	\$0.05258
4	2021	4	245,560	\$12,906	\$0.05256
5	2021	5	66,720	\$3,791	\$0.05682
6	2021	6	454,740	\$35,612	\$0.07831
7	2021	7	315,340	\$24,705	\$0.07834
8	2021	8	347,560	\$27,065	\$0.07787
9	2021	9	328,280	\$25,740	\$0.07841
10	2021	10	287,680	\$15,495	\$0.05386
11	2021	11	261,800	\$13,943	\$0.05326
12	2021	12	60,960	\$3,280	\$0.05381

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL HEATING & COOLING EFFICIENCY

RATE SCHEDULE 5

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	157,871	\$9,225	\$0.05843
2	2021	2	150,977	\$8,792	\$0.05823
3	2021	3	138,148	\$8,750	\$0.06334
4	2021	4	140,866	\$8,609	\$0.06111
5	2021	5	159,731	\$9,475	\$0.05932
6	2021	6	207,852	\$13,494	\$0.06492
7	2021	7	240,438	\$15,966	\$0.06640
8	2021	8	371,659	\$24,753	\$0.06660
9	2021	9	248,165	\$16,213	\$0.06533
10	2021	10	180,743	\$10,704	\$0.05922
11	2021	11	88,802	\$4,931	\$0.05552
12	2021	12	140,536	\$8,633	\$0.06143

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL HEATING & COOLING EFFICIENCY

RATE SCHEDULE 5P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	86,471	\$8,975	\$0.10379
2	2021	2	79,317	\$8,420	\$0.10615
3	2021	3	81,840	\$11,420	\$0.13954
4	2021	4	108,110	\$10,551	\$0.09759
5	2021	5	106,449	\$11,026	\$0.10358
6	2021	6	161,033	\$14,691	\$0.09123
7	2021	7	182,976	\$15,860	\$0.08668
8	2021	8	166,636	\$14,599	\$0.08761
9	2021	9	190,005	\$16,190	\$0.08521
10	2021	10	146,364	\$13,502	\$0.09225
11	2021	11	102,851	\$9,349	\$0.09090
12	2021	12	83,621	\$8,516	\$0.10185

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL HEATING & COOLING EFFICIENCY

RATE SCHEDULE 6P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	52,384	\$6,271	\$0.11972
2	2021	2	44,439	\$4,823	\$0.10854
3	2021	3	57,997	\$9,927	\$0.17116
4	2021	4	55,545	\$12,284	\$0.22116
5	2021	5	69,612	\$14,172	\$0.20359
6	2021	6	106,913	\$18,857	\$0.17638
7	2021	7	132,255	\$14,195	\$0.10733
8	2021	8	129,775	\$13,831	\$0.10658
9	2021	9	160,185	\$20,101	\$0.12549
10	2021	10	123,546	\$15,794	\$0.12784
11	2021	11	83,510	\$12,784	\$0.15309
12	2021	12	65,822	\$11,024	\$0.16748

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

SUMMARY

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	9,002,427	\$582,480	\$0.06470
2	2021	2	9,645,242	\$626,600	\$0.06496
3	2021	3	10,308,982	\$685,731	\$0.06652
4	2021	4	9,646,965	\$621,473	\$0.06442
5	2021	5	8,364,596	\$549,400	\$0.06568
6	2021	6	10,566,480	\$738,453	\$0.06989
7	2021	7	10,151,342	\$821,503	\$0.08093
8	2021	8	10,575,382	\$807,823	\$0.07639
9	2021	9	10,710,135	\$776,752	\$0.07252
10	2021	10	9,735,662	\$646,469	\$0.06640
11	2021	11	9,014,841	\$591,785	\$0.06565
12	2021	12	8,307,435	\$554,820	\$0.06679

* Base Revenue reflects Schedule 10, 30, 42, 5, 5P, and 6P non-fuel revenues, excluding Basic Customer Charge and excludes base fuel, Rider A and Rider B fuel rates.

** Columns (C) & (D) are the sum of the kWh and the base revenue shown in Schedule 12 on pages 2 to 7 in Columns (C) & (D) of each rate table.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

RATE SCHEDULE 10

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	2,755,683	\$113,053	\$0.04103
2	2021	2	2,809,064	\$128,667	\$0.04580
3	2021	3	2,737,554	\$108,679	\$0.03970
4	2021	4	2,756,534	\$101,022	\$0.03665
5	2021	5	2,615,955	\$92,536	\$0.03537
6	2021	6	2,617,514	\$113,122	\$0.04322
7	2021	7	2,307,546	\$232,013	\$0.10055
8	2021	8	2,507,845	\$204,245	\$0.08144
9	2021	9	2,418,883	\$162,241	\$0.06707
10	2021	10	2,375,666	\$94,531	\$0.03979
11	2021	11	2,424,395	\$95,958	\$0.03958
12	2021	12	2,512,580	\$98,730	\$0.03929

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

RATE SCHEDULE 30

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	31,621	\$1,862	\$0.05888
2	2021	2	32,408	\$1,912	\$0.05899
3	2021	3	30,924	\$1,851	\$0.05987
4	2021	4	33,147	\$2,007	\$0.06056
5	2021	5	32,894	\$1,989	\$0.06046
6	2021	6	46,234	\$2,945	\$0.06369
7	2021	7	66,120	\$3,993	\$0.06039
8	2021	8	66,429	\$4,025	\$0.06059
9	2021	9	66,305	\$4,022	\$0.06067
10	2021	10	47,473	\$2,647	\$0.05577
11	2021	11	34,449	\$2,047	\$0.05941
12	2021	12	31,279	\$1,834	\$0.05864

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

RATE SCHEDULE 42

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	152,895	\$7,353	\$0.04809
2	2021	2	140,303	\$6,788	\$0.04838
3	2021	3	148,278	\$7,069	\$0.04767
4	2021	4	129,472	\$6,573	\$0.05077
5	2021	5	160,257	\$8,229	\$0.05135
6	2021	6	198,350	\$15,074	\$0.07600
7	2021	7	246,841	\$18,773	\$0.07605
8	2021	8	230,816	\$17,780	\$0.07703
9	2021	9	234,904	\$17,652	\$0.07515
10	2021	10	180,110	\$8,847	\$0.04912
11	2021	11	149,614	\$7,305	\$0.04882
12	2021	12	88,411	\$4,406	\$0.04984

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

RATE SCHEDULE 5

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	1,284,790	\$75,656	\$0.05889
2	2021	2	1,593,857	\$98,402	\$0.06174
3	2021	3	2,505,179	\$166,069	\$0.06629
4	2021	4	2,014,120	\$128,338	\$0.06372
5	2021	5	1,087,480	\$65,765	\$0.06048
6	2021	6	2,563,227	\$182,412	\$0.07117
7	2021	7	2,098,041	\$143,145	\$0.06823
8	2021	8	2,206,498	\$150,967	\$0.06842
9	2021	9	2,202,206	\$149,876	\$0.06806
10	2021	10	1,924,107	\$119,625	\$0.06217
11	2021	11	1,680,911	\$106,914	\$0.06360
12	2021	12	1,094,047	\$65,704	\$0.06006

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

RATE SCHEDULE 5P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	1,159,485	\$93,880	\$0.08097
2	2021	2	1,114,272	\$93,977	\$0.08434
3	2021	3	1,321,761	\$115,215	\$0.08717
4	2021	4	1,173,626	\$98,230	\$0.08370
5	2021	5	1,171,963	\$101,462	\$0.08657
6	2021	6	1,390,895	\$119,947	\$0.08624
7	2021	7	1,434,662	\$116,437	\$0.08116
8	2021	8	1,594,969	\$131,509	\$0.08245
9	2021	9	1,378,098	\$113,950	\$0.08269
10	2021	10	1,408,533	\$125,183	\$0.08887
11	2021	11	1,077,872	\$89,906	\$0.08341
12	2021	12	1,024,776	\$85,819	\$0.08374

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL LIGHTING SYSTEMS & CONTROLS

RATE SCHEDULE 6P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	3,617,953	\$290,676	\$0.08034
2	2021	2	3,955,338	\$296,853	\$0.07505
3	2021	3	3,565,286	\$286,848	\$0.08046
4	2021	4	3,540,066	\$285,303	\$0.08059
5	2021	5	3,296,047	\$279,419	\$0.08477
6	2021	6	3,750,260	\$304,953	\$0.08132
7	2021	7	3,998,132	\$307,144	\$0.07682
8	2021	8	3,968,825	\$299,298	\$0.07541
9	2021	9	4,409,739	\$329,011	\$0.07461
10	2021	10	3,799,773	\$295,637	\$0.07780
11	2021	11	3,647,600	\$289,655	\$0.07941
12	2021	12	3,556,342	\$298,327	\$0.08389

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL SMALL BUSINESS IMPROVEMENT PROGRAM

SUMMARY

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	362,861	\$22,288	\$0.06142
2	2021	2	415,372	\$25,910	\$0.06238
3	2021	3	395,527	\$25,028	\$0.06328
4	2021	4	345,102	\$21,565	\$0.06249
5	2021	5	328,749	\$20,561	\$0.06254
6	2021	6	487,870	\$33,376	\$0.06841
7	2021	7	532,989	\$35,565	\$0.06673
8	2021	8	594,791	\$39,799	\$0.06691
9	2021	9	576,596	\$38,455	\$0.06669
10	2021	10	435,359	\$26,386	\$0.06061
11	2021	11	332,607	\$20,575	\$0.06186
12	2021	12	362,902	\$22,924	\$0.06317

* Base Revenue reflects Schedule 5 and 5P non-fuel revenues, excluding Basic Customer Charge and excludes base fuel, Rider A and Rider B fuel rates.

** Columns (C) & (D) are the sum of the kWh and the base revenue shown in Schedule 13 on pages 2 to 3 in Columns (C) & (D) of each rate table.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL SMALL BUSINESS IMPROVEMENT PROGRAM

RATE SCHEDULE 5

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	336,533	\$19,669	\$0.05845
2	2021	2	391,860	\$23,296	\$0.05945
3	2021	3	375,091	\$22,635	\$0.06035
4	2021	4	321,103	\$19,154	\$0.05965
5	2021	5	307,639	\$18,008	\$0.05854
6	2021	6	460,431	\$30,215	\$0.06562
7	2021	7	499,787	\$32,042	\$0.06411
8	2021	8	566,577	\$36,350	\$0.06416
9	2021	9	545,508	\$34,922	\$0.06402
10	2021	10	410,187	\$23,589	\$0.05751
11	2021	11	309,981	\$18,099	\$0.05839
12	2021	12	340,882	\$20,209	\$0.05929

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL SMALL BUSINESS IMPROVEMENT PROGRAM

RATE SCHEDULE 5P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	26,328	\$2,619	\$0.09949
2	2021	2	23,512	\$2,614	\$0.11117
3	2021	3	20,436	\$2,392	\$0.11707
4	2021	4	23,999	\$2,412	\$0.10049
5	2021	5	21,110	\$2,552	\$0.12091
6	2021	6	27,439	\$3,161	\$0.11522
7	2021	7	33,202	\$3,523	\$0.10610
8	2021	8	28,214	\$3,449	\$0.12226
9	2021	9	31,088	\$3,534	\$0.11367
10	2021	10	25,172	\$2,798	\$0.11114
11	2021	11	22,626	\$2,476	\$0.10942
12	2021	12	22,020	\$2,714	\$0.12326

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL WINDOW FILM PROGRAM

RATE SCHEDULE 5

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	38,320	\$2,123	\$0.05541
2	2021	2			\$0.00000
3	2021	3	70,320	\$4,133	\$0.05877
4	2021	4	27,680	\$1,517	\$0.05480
5	2021	5	23,600	\$1,108	\$0.04697
6	2021	6	28,784	\$1,565	\$0.05437
7	2021	7	34,390	\$1,865	\$0.05423
8	2021	8	34,601	\$2,047	\$0.05916
9	2021	9	24,033	\$1,513	\$0.06297
10	2021	10	26,279	\$1,417	\$0.05393
11	2021	11	25,675	\$1,365	\$0.05318
12	2021	12	22,187	\$1,267	\$0.05709

* All participants were served under Schedule 5, therefore Base Revenue reflects Rate Schedule 5 non-fuel revenues excluding the Basic Customer Charge and excludes base fuel, Rider A, and Rider B fuel rates.

*** Two customers on Schedule 5 participated in the Non-Residential Window Film Program. Because of the timing of those customers' billing cycle, certain months show no usage or revenue.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL PRESCRIPTIVE PROGRAM

SUMMARY

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	4,816,780	\$312,252	\$0.06483
2	2021	2	4,492,873	\$305,064	\$0.06790
3	2021	3	4,346,906	\$298,494	\$0.06867
4	2021	4	4,256,946	\$287,899	\$0.06763
5	2021	5	4,104,675	\$283,454	\$0.06906
6	2021	6	5,039,639	\$351,185	\$0.06968
7	2021	7	5,362,512	\$389,906	\$0.07271
8	2021	8	5,681,773	\$410,637	\$0.07227
9	2021	9	5,816,856	\$403,990	\$0.06945
10	2021	10	4,721,390	\$306,397	\$0.06490
11	2021	11	4,071,504	\$270,567	\$0.06645
12	2021	12	4,336,414	\$287,276	\$0.06625

* Base Revenue reflects Schedule 10, 5, 5P, and 6P non-fuel revenues, excluding Basic Customer Charge and excludes base fuel, Rider A and Rider B fuel rates.

** Columns (C) & (D) are the sum of the kWh and the base revenue shown in Schedule 15 on pages 2 to 5 in Columns (C) & (D) of each rate table.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL PRESCRIPTIVE PROGRAM

RATE SCHEDULE 10

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	683,002	\$28,257	\$0.04137
2	2021	2	627,126	\$27,919	\$0.04452
3	2021	3	612,479	\$24,282	\$0.03964
4	2021	4	658,465	\$23,691	\$0.03598
5	2021	5	635,326	\$21,815	\$0.03434
6	2021	6	775,487	\$31,850	\$0.04107
7	2021	7	771,563	\$59,352	\$0.07692
8	2021	8	812,696	\$59,787	\$0.07357
9	2021	9	863,207	\$50,154	\$0.05810
10	2021	10	737,167	\$27,529	\$0.03734
11	2021	11	666,789	\$25,393	\$0.03808
12	2021	12	687,240	\$26,276	\$0.03823

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL PRESCRIPTIVE PROGRAM

RATE SCHEDULE 5

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	1,436,929	\$78,838	\$0.05487
2	2021	2	1,466,477	\$81,179	\$0.05536
3	2021	3	1,301,904	\$74,205	\$0.05700
4	2021	4	1,197,845	\$67,837	\$0.05663
5	2021	5	1,134,214	\$63,104	\$0.05564
6	2021	6	1,468,135	\$91,856	\$0.06257
7	2021	7	1,671,999	\$102,777	\$0.06147
8	2021	8	1,839,649	\$112,901	\$0.06137
9	2021	9	1,759,513	\$107,705	\$0.06121
10	2021	10	1,368,114	\$75,042	\$0.05485
11	2021	11	1,149,359	\$63,837	\$0.05554
12	2021	12	1,227,228	\$68,193	\$0.05557

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL PRESCRIPTIVE PROGRAM

RATE SCHEDULE 5P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	2,192,414	\$165,031	\$0.07527
2	2021	2	1,923,027	\$158,161	\$0.08225
3	2021	3	1,992,496	\$164,343	\$0.08248
4	2021	4	1,999,572	\$162,053	\$0.08104
5	2021	5	1,950,184	\$164,877	\$0.08454
6	2021	6	2,392,010	\$195,823	\$0.08187
7	2021	7	2,459,173	\$193,702	\$0.07877
8	2021	8	2,564,974	\$204,724	\$0.07982
9	2021	9	2,736,960	\$212,713	\$0.07772
10	2021	10	2,257,222	\$175,657	\$0.07782
11	2021	11	1,885,557	\$150,461	\$0.07980
12	2021	12	2,064,218	\$161,023	\$0.07801

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL PRESCRIPTIVE PROGRAM

RATE SCHEDULE 6P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	504,435	\$40,126	\$0.07955
2	2021	2	476,243	\$37,805	\$0.07938
3	2021	3	440,027	\$35,665	\$0.08105
4	2021	4	401,064	\$34,319	\$0.08557
5	2021	5	384,951	\$33,658	\$0.08744
6	2021	6	404,007	\$31,656	\$0.07835
7	2021	7	459,777	\$34,074	\$0.07411
8	2021	8	464,454	\$33,225	\$0.07154
9	2021	9	457,176	\$33,418	\$0.07310
10	2021	10	358,887	\$28,169	\$0.07849
11	2021	11	369,799	\$30,875	\$0.08349
12	2021	12	357,728	\$31,784	\$0.08885

* Base Revenue reflects the applicable rate schedules' non-fuel revenues, excluding Basic Customer Charge, base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL OFFICE PROGRAM

RATE SCHEDULE 5P

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	44,781	\$3,174	\$0.07089
2	2021	2	42,252	\$3,257	\$0.07708
3	2021	3	43,590	\$3,331	\$0.07641
4	2021	4	44,704	\$3,407	\$0.07622
5	2021	5	44,132	\$3,818	\$0.08652
6	2021	6	53,154	\$4,496	\$0.08459
7	2021	7	61,414	\$4,779	\$0.07782
8	2021	8	61,039	\$4,840	\$0.07929
9	2021	9	59,338	\$4,958	\$0.08356
10	2021	10	52,960	\$3,988	\$0.07529
11	2021	11	42,369	\$3,531	\$0.08334
12	2021	12	41,532	\$3,203	\$0.07713

* All participants were served under Schedule 5P, therefore Base Revenue reflects Rate Schedule 5P non-fuel revenues excluding the Basic Customer Charge and excludes base fuel, Rider A, and Rider B fuel rates.

DOCKET NO. E-22, SUB 645

**NORTH CAROLINA DEMAND SIDE MANAGEMENT
 AVERAGE BASE RATES FOR THE TEST PERIOD
 EXCLUDES CUSTOMER CHARGES, ALL FUEL COMPONENTS, AND OPT-OUT CUSTOMERS
 NORTH CAROLINA JURISDICTIONAL**

NON-RESIDENTIAL SMALL BUSINESS IMPROVEMENT ENHANCED PROGRAM

RATE SCHEDULE 5

Line Number	Year (A)	Month (B)	Sum of kWh** (C)	Sum of Base* Revenue** (D)	Average Base Rate (E) = (D)/(C)
1	2021	1	9,103	\$551	\$0.06052
2	2021	2	9,546	\$625	\$0.06545
3	2021	3	13,340	\$873	\$0.06545
4	2021	4	10,475	\$662	\$0.06321
5	2021	5	7,226	\$447	\$0.06179
6	2021	6	16,654	\$1,172	\$0.07037
7	2021	7	15,721	\$1,097	\$0.06979
8	2021	8	19,484	\$1,380	\$0.07083
9	2021	9	20,805	\$1,454	\$0.06987
10	2021	10	16,839	\$1,061	\$0.06298
11	2021	11	16,393	\$1,039	\$0.06336
12	2021	12	10,419	\$681	\$0.06540

* All participants were served under Schedule 5, therefore Base Revenue reflects Rate Schedule 5 non-fuel revenues excluding the Basic Customer Charge and excludes base fuel, Rider A, and Rider B fuel rates.

Rule R8-69(f)(l)(i) – Projected NC retail sales for the rate period

Rule R8-69 (f) Filing Requirements and Procedure.

(1) Each electric public utility shall submit to the Commission all of the following information and data in its application:

(i) Projected North Carolina retail monthly kWh sales for the rate period.

The Company’s projected North Carolina retail monthly kWh sales for the rate period, February 1, 2023 through January 31, 2024, are provided in the following table:

MONTH	PROJKWH
Feb-23	324,671,629
Mar-23	388,450,776
Apr-23	217,653,923
May-23	318,757,736
Jun-23	349,943,665
Jul-23	443,748,437
Aug-23	381,206,204
Sep-23	340,215,224
Oct-23	347,504,793
Nov-23	380,989,247
Dec-23	278,942,076
Jan-24	349,179,443
TOTAL	4,121,263,151

Rule R8-69(f)(I)(vi) - Proposed DSM/EE and DSM/EE EMF riders

Rule R8-69 (0) Filing Requirements and Procedure.

(1) Each electric public utility shall submit to the Commission all of the following information and data in its application:

(vi) The requested DSM/EE rider and DSM/EE EMF rider and the basis for their determination

The Rate Design for DSM/EE Rider

Detailed information regarding the determination of the DSM/EE factors has been provided as a part of the attached testimony of Casey R. Lawson. The following table provides a summary of the Company's requested DSM/EE rates.

Customer Rate Class	DSM/EE Rate
Residential	0.1613 ¢/kWh
Small General Service & Public Authority	0.1309 ¢/kWh
Large General Service	0.1133 ¢/kWh
6VP	0.0000 ¢/kWh
NS	0.0000 ¢/kWh
Outdoor Lighting	0.0000 ¢/kWh
Traffic Lighting	0.0000 ¢/kWh

The Rate Design For DSM/EE EMF Rider

Detailed information regarding the determination of the DSM/EE EMF factors has been provided as a part of the attached testimony of Casey R. Lawson. The following table provides a summary of the Company's requested DSM/EE EMF rates.

Customer Rate Class	DSM/EE EMF Rate
Residential	0.0350 ¢/kWh
Small General Service & Public Authority	0.0395 ¢/kWh
Large General Service	0.0342 ¢/kWh
6VP	0.0000 ¢/kWh
NS	0.0000 ¢/kWh
Outdoor Lighting	0.0000 ¢/kWh
Traffic Lighting	0.0000 ¢/kWh

Rule R8-69(f)(1)(vii) - Projected NC retail sales for customers opting out of measures

Rule R8-69 (f) Filing Requirements and Procedure.

(1) Each electric public utility shall submit to the Commission all of the following information and data in its application:

(vii) Projected North Carolina retail monthly kwh sales for the rate period for all industrial and large commercial accounts, in the aggregate, that are not assessed the rider charges as provided in this rule.

The Company reviewed its customer records and identified that commercial customers choosing to "opt-out" consumed 41,509,473 kWh during the 12 months ended December 31, 2021. A similar review identified industrial sales of 1,482,242,116 kWh associated with customers electing to "opt-out". The following table provides the Company's estimate of North Carolina retail monthly kWh sales in the aggregate, that will not be assessed DSM/EE rider charges as provided for in Commission Rule R8-69.

Month	Year	Total Monthly KWH
January	2021	123,600,154
February	2021	122,484,953
March	2021	113,586,898
April	2021	135,239,724
May	2021	142,806,925
June	2021	130,921,418
July	2021	144,855,676
August	2021	135,065,163
September	2021	139,617,868
October	2021	112,355,643
November	2021	112,282,221
December	2021	110,934,946
TOTAL		1,523,751,589

Rule R8-69(f)(I)(viii) - Supporting workpapers

Rule RE-69 (f) Filing Requirements and Procedure.

(1) Each electric public utility shall submit to the Commission all of the following information and data in its application:

(viii) All workpapers supporting the calculations and adjustments described above workpapers supporting calculations and adjustments have been attached to this document.

The testimony and exhibits of Casey R. Lawson are elements of this request. Information detailing the development of the Company's proposed DSM/EE and DSM/EE EMF rates are provided as a part of Ms. Lawson's testimony.

Appendix A: Non-Participating Customers

Non-Participant	Non-Participating Accounts
Consolidated Diesel	1
Domtar	1
Enviva Pellets	2
KABA Ilco (Ilco-Unican)	1
Kapstone Kraft Paper	2
Lowe's Home Centers Inc	4
Nucor	1
Weyerhaeuser Paper	1
Hospira Inc	1
Wal-Mart Stores	6
State of North Carolina	10