part 2

Virginia State Corporation Commission eFiling CASE Document Cover Sheet

Case Number (if already assigned) PUR-2020-00169

Petition of Virginia Electric and Power Company, For Case Name (if known)

approval of a rate adjustment clause, designated Rider RGGI, under § 56-585.1 A 5 e of the Code of Virginia

EXPE **Document Type**

Document Description Summary Petition of Virginia Electric and Power Company and

Request for Limited Waivers

Total Number of Pages 100

20299 **Submission ID**

11/9/2020 3:03:40PM eFiling Date Stamp

WITNESS DIRECT TESTIMONY SUMMARY

Witness: Paul B. Haynes

<u>Title</u>: Director, Regulation

Summary:

Company Witness Paul B. Haynes discusses and sponsors the development of the tariff and associated rate of the proposed Rider RGGI to be effective for usage on and after August 1, 2021, based on the revenue requirement presented by Company Witness John C. Ingram. Mr. Haynes discusses the allocation of costs based on energy to the Virginia Jurisdiction and the development of a uniform charge per kilowatt-hour ("kWh") applicable to all bundled service customers in the Virginia jurisdiction.

The implementation of the proposed Rider RGGI on August 1, 2021, will increase the typical residential customer's monthly bill, based on 1,000 kWh per month, by \$2.39.

OF PAUL B. HAYNES ON BEHALF OF

VIRGINIA ELECTRIC AND POWER COMPANY BEFORE THE

STATE CORPORATION COMMISSION OF VIRGINIA CASE NO. PUR-2020-00169

- Q. Please state your name, business address, and position with Virginia Electric and
- Power Company ("Dominion Energy Virginia" or the "Company").
- 3 A. My name is Paul B. Haynes and I am Director Regulation for the Company. My
- 4 business address is 120 Tredegar Street, Richmond, Virginia 23219. A statement of my
- 5 background and qualifications is attached as Appendix A.
- 6 Q. Mr. Haynes, what is the purpose of your testimony in this proceeding?
- 7 A. I am testifying in support of the Company's petition for approval of a rate adjustment
- 8 clause ("RAC"), designated Rider RGGI, under § 56-585.1 A 5 e ("Subsection A 5 e" or
- 9 "A 5") of the Code of Virginia ("Va. Code") to recover projected and actual costs related
- to the purchase of allowances through the Regional Greenhouse Gas Initiative ("RGGI")
- market-based trading program for carbon dioxide ("CO₂") emissions. Specifically, I
- sponsor Rider RGGI based on the revenue requirement presented by Company Witness
- John C. Ingram to be effective for usage on and after August 1, 2021. In addition, I will
- discuss the allocation of these costs to the Virginia Jurisdiction and the development of a
- uniform charge per kilowatt-hour ("kWh") applicable to all bundled service customers in
- the Virginia jurisdiction, as well as the impact that the proposed Rider RGGI rate will
- have on customer bills. Finally, I support the Company's request for billing purposes a
- rate effective date for usage on and after the first day of the month that is at least fifteen

1	(15) days following the date of any State Corporation Commission of Virginia
2	("Commission") order approving Rider RGGI.

3 Q. During the course of your testimony, will you introduce an exhibit?

- 4 A. Yes. Company Exhibit No. , PBH, consisting of Schedules 1 through 5, was prepared 5 under my supervision and direction, and is accurate and complete to the best of my 6 knowledge and belief. Also, I am sponsoring Filing Schedule 46C, Statement 1, which 7 provides information required by Rules 60 and 90 of the Commission's Rules Governing 8 Utility Rate Applications and Annual Informational Filings. This statement provides 9 details of the Company's methodology for allocating the Rider RGGI revenue 10 requirement and the development of a uniform charge per kWh applicable to all bundled 11 service customers in the Virginia jurisdiction.
- Q. Please explain how the Company proposes to allocate the projected revenue
 requirement to the Virginia Jurisdiction.

14

1.5

16

17

18

19

20

21

22

A.

Company Witness C. Eric McMillan provides an overview of RGGI. As explained by Mr. McMillan, regulated emission sources must acquire CO₂ allowances equal to their CO₂ emissions over each three-year RGGI control period. Company Witness Shane T. Compton describes the projected volume of CO₂ allowances the Company will need to meet its obligation under RGGI during the rate year of August 1, 2021 to July 31, 2022 based on projected CO₂ emissions for each Company-owned CO₂-emitting resource located in Virginia. Based upon this understanding, to allocate the costs of participation in RGGI to the Company's jurisdictions and customer classes, an allocation based upon energy is reasonable.

1	Q.	Have you prepared a schedule showing the development of the allocation factor to
2		allocate the costs of RGGI to the Virginia jurisdiction?
3	A.	Yes. In my Schedule 1, I develop the allocation using the forecasted energy usage for the
4		rate year, which is the twelve months ended July 31, 2022. The allocation to the Virginia
5		jurisdiction is 80.3494%.
6	Q.	Would you please discuss the methodology for calculating the Rider RGGI rate?
7	A.	I propose that the costs be recovered through a uniform charge per kWh from all bundled
8		service customers in the Virginia jurisdiction. I show the calculation of this charge in my
9		Schedule 2.
10	Q.	Have you included in your exhibit a schedule that shows Rider RGGI?
11	A.	Yes. The tariff sheet for Rider RGGI is presented in my Schedule 3.
12	Q.	If the Commission approves Rider RGGI as filed, what is the impact on a typical
13		residential customer's bill?
14	A.	Schedule 4 provides typical bill comparisons (base and fuel) for customers on Rate
1.5		Schedules 1, GS-1, GS-2, GS-3, GS-4, and 5C at representative levels of consumption
16		based on the proposed Rider RGGI. As shown on Schedule 4, Page 1, for a residential
17		customer using 1,000 kWh per month, the typical bill would increase \$2.39. For
18		reference, page 10 of Schedule 4 provides a workpaper showing the billing components
19		of the 1,000 kWh residential bill for the rate proposed to take effect by August 1, 2021. A
20		summary of the impacts to the typical residential customer's monthly bill as of August I,
21		2021, from the Company's proposed RACs is detailed in my Schedule 5.

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

APPENDIX A

OF PAUL B. HAYNES

Paul B. Haynes received a Bachelor of Science degree in Business Administration from the University of Richmond in 1984 and a Master of Business Administration with a Concentration in Quantitative Methods from Virginia Commonwealth University in 1989.

Mr. Haynes started his career with the Company as a meter reader. He went through the Company's Customer Service Representative training program for three-and-a-half years, during which time he designed distribution facilities to serve residential and non-residential customers. In 1990, Mr. Haynes joined the Rate Department to work in the Rate Design section, where he assisted with regulatory filings and the design of rates, and performed analysis related to the Company's Virginia and North Carolina service territories. He has held various staff analyst positions within the Customer Rates Department, formerly the Cost Allocation and Pricing Department. In 2006, Mr. Haynes became Project Manager of Regulatory Research and Analysis, and then became Manager of Regulatory Analysis, Research and Support in 2007. On June 1, 2009, Mr. Haynes became Manager – Regulation with responsibility for cost allocation and cost of service studies, and on January 1, 2013, he assumed his current position as Director – Regulation with responsibility for Cost of Service and Rate Design.

Mr. Haynes has previously filed testimony with the State Corporation Commission of Virginia and the North Carolina Utilities Commission.

E TOOKIOO

Company Exhibit No. ____ Witness: PBH Schedule 1 Page 1 of 1

VIRGINIA ELECTRIC AND POWER COMPANY RIDER RGGI FOR THE RATE YEAR TWELVE MONTHS ENDED JULY 31, 2022

Virginia FERC North Carolina Non-jurisdiction Jurisdiction	7 11,284,352 1,623,239 4,327,687	
Virginia Jurisdiction	70,473,497	
System	87,708,774	
	Projected Rate Year Energy Usage (kWh)	

Company Exhibit No. ___ Witness: PBH Schedule 2 Page 1 of 1

VIRGINIA ELECTRIC AND POWER COMPANY RIDER RGGI RATE YEAR TWELVE MONTHS ENDED JULY 31, 2022 (Rates in Dollars per Kilowatt-hour)

1. VA JURISDICTIONAL REVENUE REQUIREMENT (1)

\$ 168,260,000

2. ESTIMATED VIRGINIA JURISDICTIONAL KWH SALES (2)

70,473,496,704

3. RIDER RGGI COST RECOVERY RATE (LINE 1 / LINE 2)

\$ 0.002388 per kWh

Note

1) From Testimony of Company Witness John C. Ingram, Schedule 1, Page 1

2) From Company Exhibit No. ____, PBH, Schedule 1

Company Exhibit No. ___ Witness: PBH Schedule 3 Page 1 of 1

RIDER-RGGI

The charge for service under Virginia Electric and Power Company's Filed Rate

Schedules 1, 1G, 1P, 1S, 1T, 1W, DP-R, 1EV, EV, 5, 5C, 5P, 6, GS-1, DP-1, GS-2, DP-2,

GS-2T, GS-3, GS-4, 6TS, 7, 8, 10, 24, 25, 27, 28 and 29, as well as applicable energy charges specified in any special rates, contracts or incentives approved by the State Corporation

Commission pursuant to Virginia Code § 56-235.2 shall be increased by 0.2388 cents per kilowatt-hour.

¹ For Schedule MBR, this charge will be used to allocate a portion of the Generation Charge to Rider RGGI per Section II.B.1.b.

Company Exhibit No. ___ Witness: PBH Schedule 4 Page 1 of 10

VIRGINIA ELECTRIC AND POWER COMPANY **TYPICAL BILLS - RESIDENTIAL - SCHEDULE 1**

SUMMER MONTHS

EFFECTIVE FOR USAGE ON AND AFTER

EFFECTIVE FOR USAGE ON AND AFTER

		8/1/2021	1			8/1/2021				
		APPLICABLE				APPLICABLE				
	BASIC	NON-FUEL		TOTAL	BASIC	NON-FUEL		TOTAL		PERCENT
KWH	RATE#	RIDERS##	FUEL*	BILL	RATE#	RIDERS###	FUEL*	BILL	DIFFERENCE	DIFFERENCE
500	\$39.88	\$14.79	\$8.51	\$83.18	\$39,88	\$15.98	\$8.51	\$64,37	\$1,19	1.9%
750	\$58.54	\$22.18	\$12.77	\$91.49	\$56,54	\$23,97	\$12.77	\$93.28	\$1.79	2.0%
1,000	\$75,10	\$29.59	\$17.02	\$121.71	\$75.10	\$31.98	\$17.02	\$124,10	\$2,39	2.0%
1,500	\$113.17	\$44.35	\$25,53	\$183,05	\$113.17	\$47.93	\$25.53	\$188.63	\$3.58	2.0%
2,000	\$151.24	\$59.13	\$34.04	\$244,41	\$151.24	\$63,91	\$34.04	\$249.19	\$4.78	2.0%
2,500	\$189.31	\$73,95	\$42,55	\$305.81	\$189,31	\$79.92	\$42.55	\$311.78	\$5.97	2.0%
3,000	\$227.38	\$88.72	\$51.08	\$367.16	\$227.38	\$95.88	\$51.08	\$374.32	\$7.16	2.0%
5,000	\$379.67	\$147.90	\$85.11	\$612,68	\$379,67	\$159.84	\$85,11	\$624.62	\$11,94	1.9%

BASE MONTHS

EFFECTIVE FOR USAGE ON AND AFTER EFFECTIVE FOR USAGE ON AND AFTER

		8/1/2021	<u> </u>			8/1/2021				
		APPLICABLE		<u>.</u>		APPLICABLE				
	BASIC	NON-FUEL		TOTAL	BASIC	NON-FUEL		TOTAL		PERCENT
KWH	RATE#	RIDERS##	FUEL*	BILL	RATE#	RIDERS###	FUEL*	BILL	DIFFERENCE	DIFFERENCE
500	\$39.88	\$14.79	\$8,51	\$63,18	\$39.88	\$15.98	\$8.51	\$64.37	\$1.19	1,9%
750	\$56,54	\$22.18	\$12.77	\$91.49	\$58.54	\$23,97	\$12,77	\$93,28	\$1.79	2.0%
1,000	\$69,73	\$29.59	\$17.02	\$116,34	\$69.73	\$31,98	\$17,02	\$118.73	\$2.39	2.1%
1,500	\$94,36	\$44.35	\$25.53	\$164.24	\$94.38	\$47.93	\$25.53	\$167.82	\$3.58	2.2%
2,000	\$119.00	\$59,13	\$34,04	\$212.17	\$119.00	\$63.91	\$34.04	\$216.95	\$4.78	2.3%
2,500	\$143,63	\$73.95	\$42.55	\$260.13	\$143.63	\$79.92	\$42.55	\$266.10	\$5.97	2.3%
3,000	\$168.27	\$88.72	\$51.06	\$308.05	\$168.27	\$95,88	\$51.08	\$315.21	\$7,16	2.3%
5,000	\$268.82	\$147.90	\$85.11	\$499 R3	\$288 82	€150 RA	\$85.11	\$511.77	\$11.04	2 496

[#] Basic rate includes base distribution, generation and embedded transmission rates.

^{##} Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 without proposed Rider RGGI change.
Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 with proposed Rider RGGI change.

* Reflects total current fuel level of \$0.017021 per kWh.

2.3%

Company Exhibit No. Witness: PBH Schedule 4 Page 2 of 10

VIRGINIA ELECTRIC AND POWER COMPANY **TYPICAL BILLS - SCHEDULE GS-1**

SUMMER MONTHS

EFFECTIVE FOR EFFECTIVE FOR **USAGE ON AND AFTER** USAGE ON AND AFTER 8/1/2021 8/1/2021 APPLICABLE APPLICABLE BILL LOAD BASIC NON-FUEL TOTAL BASIC NON-FUEL TOTAL PERCENT DIFFERENCE PHASE FACTOR KWH FUEL S DIFFERENCE ĸw RATE# RIDERS## BILL RATE# RIDERS### FUEL* BILL 5 500 13 14% \$39.78 \$12.08 \$8.51 \$60.35 \$39.78 \$13.25 \$8.51 \$61,54 \$1,19 2.0% 14% 500 \$12.08 \$43.54 \$8.51 \$64,11 \$43.54 \$13.25 \$8.51 \$65.30 \$1,19 1.9% 1,000 1 28% \$88.78 \$24 10 \$17.02 \$109.90 \$66.78 \$28.49 \$17.02 \$112.29 \$2.39 2.2% 28% 1,000 \$72.54 \$24.10 \$17.02 \$113,66 \$72.54 \$26.49 \$17.02 \$116.05 \$2,39 2.1% \$98.31 \$98.31 \$163.56 1,500 1 42% \$36.14 \$25.53 \$159.98 \$39.72 \$25.53 2.2% \$3.58 1,500 \$102.07 \$36.14 \$25.53 \$163.74 \$102.07 \$39.72 \$25.53 \$167.32 \$3.58 2,2% 2,000 56% \$129.92 \$212.13 \$129.92 \$52,95 \$216,91 2.3% \$48,17 \$34.04 \$34,04 \$4.78 \$133,68 \$220.67 15 1,500 \$98.31 \$36.14 \$25.53 \$159.98 \$98.31 \$39.72 \$25.53 \$163.58 \$3.58 2.2% 1 1.500 14% \$102.07 \$36,14 \$25.53 \$163.74 \$102.07 \$39,72 \$25,53 \$167,32 \$3,58 2.2% 3 000 1 28% \$193.15 \$72.30 \$51.08 \$316.51 \$193.15 \$79.46 \$51.08 \$323.67 \$7.16 2.3% 28% \$327.43 2.2% 3.000 \$198.91 \$72.30 \$51.08 \$320.27 \$196.91 \$79.46 \$51.06 \$7.16 4,500 4,500 1 42% \$287 99 \$108.43 \$76.59 \$473.01 \$287.99 \$119.18 \$76.59 \$483.76 \$10.75 2.3% 2,3% 42% \$291.75 \$108,43 \$76.59 \$476.77 \$291.75 \$119,18 \$76.59 \$487.52 \$10,75 6 000 1 56% \$382.83 \$144.58 \$102.13 \$829.52 \$382.83 \$158.89 \$102.13 \$843.85 \$14.33 2.3% 58% 2,3% 6,000 \$386.59 \$144.58 \$102.13 \$633.28 \$388.59 \$158.89 \$102.13 \$847.61 \$14.33 25 2,500 14% \$161.54 \$60.26 \$42,55 \$264.35 \$161.54 \$66.23 \$42,55 \$270.32 \$5.97 2.3% 2.500 3 14% \$165.30 \$60.26 \$42.55 \$268.11 \$165.30 \$66.23 \$42.55 \$274.08 \$5.97 2.2% \$85.11 5,000 \$319.60 \$319.60 \$132.43 \$537.14 \$11.94 2.3% 1 \$120.49 \$85.11 \$525.20 5,000 28% \$323.38 \$120.49 \$85.11 \$528.98 \$323.36 \$132.43 \$85.11 \$540.90 \$11.94 2.3% 7,500 1 42% \$477.67 \$180.74 \$127.66 \$788.07 \$477.87 \$198,65 \$127,66 \$803.98 \$17.91 2,3% 7,500 3 42% \$481.43 \$180.74 \$127.66 \$789.83 \$481.43 \$198.65 \$127.66 \$807,74 \$17,91 2.3% 10.000 1 56% \$635.73 \$240.93 \$170.21 \$1,046.87 \$635.73 \$264.81 \$170.21 \$1,070,75 \$23.88 2.3%

\$639.49

\$264.81 \$170.21

\$1,074,51

\$23.88

\$639,49

58%

\$240.93 \$170.21 \$1.050.63

10.000

[#] Basic rate includes base distribution, generation and embedded transmission rates.

^{##} Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 without proposed Rider RGGI change.

^{###} Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 without proposed Rider RGGI change.

Reflects total current final basel of \$0.07701 co. MAR.

Reflects total current final basel of \$0.07701 co. MAR.

Reflects total current fuel level of \$0,017021 per kWh,

Company Exhibit No. Witness: PBH Schedule 4 Page 3 of 10

VIRGINIA ELECTRIC AND POWER COMPANY **TYPICAL BILLS - SCHEDULE GS-1**

BASE MONTHS

EFFECTIVE FOR EFFECTIVE FOR USAGE ON AND AFTER USAGE ON AND AFTER 8/1/2021 8/1/2021 APPLICABLE APPLICABLE BILL LOAD BASIC NON-FUEL TOTAL BASIC NON-FUEL TOTAL PERCENT KW KWH PHASE FACTOR RATE# RIDERS## FUEL * RIDERS### FUEL* DIFFERENCE BILL RATE# DIFFERENCE 5 \$39.78 \$12.06 \$8.51 \$60.35 \$39.78 \$13.25 \$8.51 \$61.54 2.0% \$1,19 500 3 14% \$43.54 \$12.08 \$8.51 \$64.11 \$43.54 \$13.25 \$8.51 \$65.30 1,9% 1,000 28% \$68.78 \$17.02 \$109.90 \$68.78 \$112.29 \$24.10 \$26.49 \$17.02 \$2.39 2.2% 1,000 3 28% \$72.54 \$24,10 \$17.02 \$113.66 \$72.54 \$26,49 \$17.02 \$116.05 \$2.39 1,500 42% \$95.88 \$25.53 \$157.53 \$95.86 \$25,53 \$161.11 1 \$39.72 1.500 2.2% 42% \$99.62 \$38.14 \$25.53 \$161.29 \$99.62 \$39.72 \$25.53 \$164.87 \$3.5B 2.000 56% \$115.22 \$48.17 \$34.04 \$197.43 \$115.22 \$52.95 \$34.04 \$202.21 \$4.78 2.4% 1 56% \$4.78 2.4% 2.000 \$118.98 \$48.17 \$34.04 \$201.19 \$118.98 \$52.95 \$34.04 \$205.97 15 1,500 14% \$95.86 \$36,14 \$25.53 \$157.53 \$95.86 \$39.72 \$25,53 \$161.11 \$3.58 2.3% 1,500 3 14% \$99,62 \$38,14 \$25.53 \$161.29 \$99.62 \$39,72 \$25.53 \$164.87 \$3,58 3,000 28% \$153.95 \$72,30 \$51.06 \$277,31 \$153.95 \$79.48 \$51.08 \$284,47 \$7.18 2.6% 3,000 3 28% \$157.71 \$72.30 \$51.08 \$281.07 \$157.71 \$79.48 \$51.08 \$288.23 2.5% 4,500 42% \$212.04 \$108.43 \$78.59 \$397,06 \$212.04 \$119.18 \$76.59 \$407.81 \$10.75 2.7% 4,500 3 42% \$215.80 \$108.43 \$76.59 \$400.82 \$215.80 \$119.18 \$76.59 \$411.57 \$10.75 2.7% \$102.13 6,000 56% \$270.14 \$144.58 \$516.83 \$270.14 \$158.89 \$102.13 \$531.16 \$14.33 2.8% 6.000 3 58% \$273.90 \$144.58 \$102.13 \$520.59 \$273.90 \$158.89 \$102.13 \$534.92 \$14.33 2.8% 25 2.500 1 3 14% \$134.59 \$60.26 \$42.55 \$42.55 \$237.40 \$134.59 \$88.23 \$42.55 \$243.37 \$5.97 2.5% 2,500 14% \$138.35 \$60.28 \$247,13 \$5.97 5,000 \$231,41 \$120,49 \$85,11 \$437,01 \$231.41 \$132,43 \$85,11 \$448.95 28% \$11.94 2.7% 5,000 3 \$235.17 \$120.49 \$85.11 \$440.77 \$452.71 \$328.23 2.8% 2.8% 7,500 42% \$328,23 \$180.74 \$127.66 \$636,63 \$198.65 \$127.66 \$654.54 \$17.91 3 7,500 42% \$331.99 \$180.74 \$127.68 \$640.39 \$331.99 \$198.65 \$127.68 \$858.30 \$17.91 10,000 \$425.05 \$836,19 \$425.05 \$860.07 2.9% 2.8% 56% \$240.93 \$170.21 \$264.81 \$170.21 \$23.88

\$839.95

\$428,81

\$264,81 \$170,21

\$863,83

\$23.88

\$428,81

58%

\$240,93 \$170,21

3

10,000

[#] Basic rate includes base distribution, generation and embedded transmission rates.

^{##} Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 without proposed Rider RGGI change.

^{###} Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 with proposed Rider RGGI change.

Reflects total current fuel level of \$0.017021 per kWh.

Company Exhibit No. ___ Witness: PBH Schedule 4 Page 4 of 10

VIRGINIA ELECTRIC AND POWER COMPANY TYPICAL BILLS - SCHEDULE GS-2

SUMMER MONTHS

	PERCENT DIFFERENCE	1.7%	2.3%	3.3%	1.8%	2.4%	3.3%	1.8%	2.4%	3.3%	1.8%	2.4%	3.3%	1.8%	2.4%	3.3%	1.8%	2.4%	3.3%
	OIFFERENCE	\$10.75	\$21.49	\$20.82	\$17.91	\$35.82	\$59.70	\$35.82	\$71.64	\$119.40	\$53.73	\$107.46	\$179.10	\$69.55	\$179.10	\$298.50	\$161.19	\$322.38	\$537.30
	TOTAL	\$628.74	\$936.83	\$1,133.43	\$1,034.66	\$1,548.15	\$1,875.78	\$2,049.40	\$3,076.34	53,731.63	\$3,064.14	\$4,604.60	\$5,587.52	\$5,093.60	\$7,661.04	\$9,299.25	\$9,152.54	\$13,773.93	\$16,722.72
FOR 5 AFTER 1	FUEL.	\$76.59	\$153.19	\$255.32	\$127.66	\$255.32	\$425.53	\$255.32	\$510.63	\$851.05	\$382.97	\$765.95	\$1,276.58	\$638.29	\$1,276.58	\$2,127.63	\$1,148.92	\$2,297.84	\$3,829.73
EFFECTIVE FOR USAGE ON AND AFTER 8/1/2021	APPLICABLE NON-FUEL RIDERS###	\$181.82	\$242.37	\$285.00	\$303.04	\$403.97	\$474.99	\$606.05	\$807.88	\$949.95	\$909.07	\$1,211.85	\$1,424.94	\$1,515.07	\$2,019.73	\$2,374.89	\$2,727.10	53,635,49	\$4,274.79
	BASIC RATE#	\$370.33	\$541.27	\$593.11	\$603.96	\$888.86	\$975.26	\$1,188.03	\$1,757.83	\$1,930.63	\$1,772.10	\$2,626.80	\$2,886.00	\$2,940.24	\$4,364.73	\$4,796.73	\$5,276.52	\$7,840.60	\$8,618.20
	TOTAL	\$617.99	\$915.34	19.760,13	\$1,016.75	\$1,512.33	\$1,816.08	\$2,013.58	53,004.70	\$3,612.23	\$3,010.41	\$4,497.14	\$5,408.42	\$5,004.05	\$7,481.94	\$9,000.75	\$8,991.35	\$13,451.55	\$16,185.42
FOR DAFTER 1	FUEL *	\$76.59	\$153.19	\$255.32	\$127.66	\$255.32	\$425.53	\$255.32	\$510,63	\$851.05	\$382.97	\$765.95	\$1,276.58	\$638.29	\$1,276.58	\$2,127.63	\$1,148.92	\$2,297.84	\$3,829.73
EFFECTIVE FOR USAGE ON AND AFTER 8/1/2021	APPLICA NON-FU RIDERS			\$249.18	\$285.13	\$368.15	\$415.29	\$570.23	\$736.24	\$830.55	\$855.34	\$1,104.39	\$1,245.84	\$1,425.52	\$1,840.63	\$2,076.39	\$2,565.91	\$3,313.11	\$3,737.49
	BASIC RATE#	\$370.33	\$541.27	\$593,11	\$603.96	\$888.86	\$975.26	\$1,188.03	\$1,757.83	\$1,930.63	\$1,772.10	\$2,626.80	\$2,886.00	\$2,940.24	\$4,364.73	\$4,796.73	\$5,276.52	\$7,840.60	\$8,618.20
					21%	42%	% 69	21%	42%	9 69									
	HWY HW	4,500	000'6	15,000	7,500	15,000	25,000	15,000	30,000	50,000	22,500	45,000	75,000	37,500	75,000	125,000	67,500	135,000	225,000
	BILL	8			જ			9			150			250			450		

[#] Basic rate includes base distribution, generation and embedded transmission rates.

Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 without proposed Rider RGGI change.

Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 with proposed Rider RGGI change.

* Reflects total current fuel level of 50.017021 per KMh.

* The rates used in this schedule are based on the revenue requirements as filed in each case.

VIRGINIA ELECTRIC AND POWER COMPANY TYPICAL BILLS - SCHEDULE GS-2

BASE MONTHS

	PERCENT DIFFERENCE	1.8% 2.5% 3.4%	1.9% 2.5% 3.4%	1.9% 2.5% 3.4%	1.9% 2.5% 3.4%	1.9% 2.5% 3.4%	1.9% 2.5% 3.4%
	DIFFERENCE	\$10.75 \$21.49 \$35.82	\$17.91 \$35.82 \$59.70	\$35.82 \$71.64 \$119.40	\$53.73 \$107.46 \$179.10	\$89.55 \$179.10 \$298.50	\$161.19 \$322.38 \$537.30
	TOTAL BILL	\$598.16 \$896.12 \$1,092.72	\$983.68 \$1,480.30 \$1,807.93	\$1,947.45 \$2,940.64 \$3,595.93	\$2,911.21 \$4,401.05 \$5,383.97	\$4,838.71 \$7,321.79 \$8,960.00	\$8,693.74 \$13,163.28 \$16,112.07
FOR S AFTER	FUEL	\$76.59 \$153.19 \$255.32	\$127.66 \$255.32 \$425.53	\$255.32 \$510.63 \$851.05	\$382.97 \$765.95 \$1,276.58	\$638.29 \$1,276.58 \$2,127.63	\$1,148.92 \$2,297.84 \$3,829.73
EFFECTIVE FOR USAGE ON AND AFTER 8/1/2021	APPLICABLE NON-FUEL RIDERS###	\$181.82 \$242.37 \$285.00	\$303.04 \$403.87 \$474.99	\$606.05 \$807.88 \$949.95	\$909.07 \$1,211.85 \$1,424.94	\$1,515.07 \$2,019.73 \$2,374.89	\$2,727.10 \$3,635.49 \$4,274.79
	BASIC RATE#	\$339.75 \$500.56 \$552.40	\$552.98 \$821.01 \$907.41	\$1,086.08 \$1,622.13 \$1,794.93	\$1,619.17 \$2,423.25 \$2,682.45	\$2,685.35 \$4,025.48 \$4,457.48	\$4,817.72 \$7,229.95 \$8,007.55
	TOTAL BILL	\$587.41 \$874.63 \$1,056.90	\$965.77 \$1,444.48 \$1,748.23	\$1,911.63 \$2,869.00 \$3,476.53	\$2,857.48 \$4,293.59 \$5,204.87	\$4,749.16 \$7,142.69 \$8,661.50	\$8,532.55 \$12,840.90 \$15,574.77
FOR D AFTER 1	FUEL *	\$76.59 \$153.19 \$255.32	\$127.66 \$255.32 \$425.53	\$255.32 \$510.63 \$851.05	\$382.97 \$765.95 \$1,276.58	\$638.29 \$1,276.58 \$2,127.63	\$1,148.92 \$2,297.84 \$3,829.73
EFFECTIVE FOR USAGE ON AND AFTER 8/1/2021	APPLICABLE NON-FUEL RIDERS##	\$171.07 \$220.88 \$249.18	\$285.13 \$368.15 \$415.29	\$570.23 \$736.24 \$830.55	\$855.34 \$1,104.39 \$1,245.84	\$1,425.52 \$1,840.63 \$2,076.39	\$2,565.91 \$3,313.11 \$3,737.49
,	BASIC RATE#	\$339.75 \$500.56 \$552.40	\$552.98 \$821.01 \$907.41	\$1,086.08 \$1,622.13 \$1,794.93	\$1,619.17 \$2,423.25 \$2,682.45	\$2,685.35 \$4,025.48 \$4,457.48	\$4,817.72 \$7,229.95 \$8,007.55
	LOAD FACTOR	21% 42% 69%	21% 42% 69%	21% 42% 69%	21% 42% 69%	21% 42% 69%	21% 42% 69%
	KWH	4,500 9,000 15,000	7,500 15,000 25,000	15,000 30,000 50,000	22,500 45,000 75,000	37,500 75,000 125,000	67,500 135,000 225,000
	BILL	30	99	8	8	250	450

Basic rate includes base distribution, generation and embedded transmission rates.
 ## Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 with proposed Rider RGGI change.
 ### Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 with proposed Rider RGGI change.
 Reflects total current fuel level of \$0.017021 per KWh.
 The rates used in this schedule are based on the revenue requirements as filed in each case.

VIRGINIA ELECTRIC AND POWER COMPANY TYPICAL BILLS - SCHEDULE GS-3 CALCULATED FOR 40% AND 60% ON-PEAK KWH USAGE

		THEOREM	DIFFERENCE	1.8%	1,8%	2.8%	2.8%	3.7%	3.7%	1.8%	1.8%	2.8%	2.8%	3.7%	3.7%	1.8%	1.8%	2.9%	2.8%	3.7%	3.7%	1.8%	1.8%	2.9%	2.9%	3.7%	3.7%
			DIFFERENCE	\$238.80	\$238.80	\$417.90	\$417.90	\$597.00	\$597.00	\$477.60	\$477.60	\$835.80	\$835.80	\$1,194.00	\$1,194.00	\$2,388.00	\$2,388.00	\$4,179.00	\$4,179.00	\$5,970.00	\$5,970.00	\$4,776.00	\$4,776.00	\$8,358.00	\$8,358.00	\$11,940.00	\$11,940.00
		TOTAL	EL L	\$13,428.74	\$13,453.86	\$15,143.73	\$15,187.34	\$16,858.70	\$16,921.00	\$26,745.04	\$26,794.88	\$30,175.00	\$30,262,22	\$33,604.96	\$33,729.56	\$133,275.30	\$133,524.50	\$150,425.10	\$150,861.20	\$167,574.90	\$168,197.90	\$266,438.16	\$266,936.56	\$300,737.76	\$301,609.96	\$335,037.36	\$336,283.36
E FOR ID AFTER	E		FUEL.	\$1,702.10	\$1,702.10	\$2,978.68	\$2,978.68	\$4,255.25	\$4,255.25	\$3,404.20	\$3,404.20	\$5,957.35	\$5,957.35	\$8,510.50	\$8,510.50	\$17,021.00	\$17,021.00	\$29,786.75	\$29,786.75	\$42,552.50	\$42,552,50	\$34,042,00	\$34,042.00	\$59,573,50	\$59,573.50	\$85,105,00	\$85,105.00
EFFECTIVE FOR USAGE ON AND AFTER	12021	APPLICABLE NON ELIEI	RIDERS##	\$4,049.30	\$4,049.30	\$4,252.78	\$4,252.78	\$4,456.25	\$4,456.25	\$8,098.60	\$6,098.60	\$8,505.55	\$8,505.55	\$8,912.50	\$8,912.50	\$40,493.00	\$40,493.00	\$42,527.75	\$42,527.75	\$44,562.50	\$44,562.50	\$80,986.00	\$80,986.00	\$85,055.50	\$85,055.50	\$89,125.00	\$89,125.00
		JISVE	RATE #	\$7,677.34	57,702.26	\$7,912.27	\$7,955.88	\$8,147.20	\$8,209.50	\$15,242.24	\$15,292.08	\$15,712.10	\$15,799.32	\$16,181.96	\$16,306.56	\$75,761.30	\$76,010.50	\$78,110.60	\$78,546.70	\$80,459.90	\$81,082.90	\$151,410.16	\$151,908.56	\$156,108.76	\$156,980.96	\$160,807.36	\$162,053.36
		TOTAL	BILL	\$13,189.94	\$13,214.86	\$14,725.83	\$14,769.44	\$16,261.70	\$16,324.00	\$26,267.44	\$26,317.28	\$29,339.20	\$29,426.42	\$32,410.96	\$32,535.56	\$130,887.30	\$131,136.50	\$146,246.10	\$146,682.20	\$161,604.90	\$162,227.90	\$261,662.18	\$262,160.56	\$292,379.76	\$293,251.96	\$323,097.36	\$324,343,36
'E FOR ND AFTER	121		FUEL *	\$1,702.10	\$1,702.10	\$2,978.68	\$2,978.68	\$4,255.25	\$4,255.25	\$3,404.20	\$3,404.20	\$5,957.35	\$5,957.35	\$8,510.50	\$8,510.50	\$17,021.00	\$17,021.00	\$29,786.75	\$29,786.75	\$42,552.50	\$42,552.50	\$34,042.00	\$34,042.00	\$59,573.50	\$59,573.50	\$85,105.00	\$85,105.00
EFFECTIVE FOR USAGE ON AND AFTER	8/1/2021	APPLICABLE	RIDERS##	\$3,810,50	\$3,810,50	\$3,834.88	53,834.88	\$3,859.25	\$3,859.25	\$7,621.00	\$7,621.00	\$7,669.75	\$7,669.75	\$7,718.50	\$7,718.50	\$38,105,00	\$38,105.00	\$38,348.75	\$38,348.75	\$38,592.50	\$38,592,50	\$76,210.00	\$76,210.00	\$76,697.50	\$76,697.50	\$77,185.00	\$77,185.00
		JISVE	RATE #	\$7,677.34	\$7,702.26	\$7,912.27	\$7,955.88	\$8,147.20	\$8,209.50	\$15,242.24	\$15,292.08	\$15,712.10	\$15,7 89,32	\$16,181.96	\$16,306.56	\$75,761.30	\$76,010.50	\$78,110.60	878,546.70	\$80,459.90	\$81,082.90	\$151,410.16	\$151,908.56	\$156,108.76	\$156,980.96	\$160,807.36	\$162,053.36
		OEE DEAK	KWH	000'09	40,000	105,000	70,000	150,000	100,000	120,000	80,000	210,000	140,000	300,000	200,000	000'009	400,000	1,050,000	700,000	1,500,000	1,000,000	1,200,000	000'008	2,100,000	1,400,000	3,000,000	2,000,000
		NATIO INC.	KWH	40,000	000'09	70,000	105,000	100,000	150,000	80,000	120,000	140,000	210,000	200,000	300,000	400,000	000,000	700,000	1,050,000	1,000,000	1,500,000	800,000	1,200,000	1,400,000	2,100,000	2,000,000	3,000,000
		6	FACTOR	28%	28%	49%	49%	%69	% 69	28%	28%	49%	49%	969	% 69	28%	28%	49%	49%	88%	% 69	28%	28%	49%	49%	% 69	*69
		ā	돌	20						1,000						2,000						000					

Bastc rate includes base distribution, generation and embedded transmission rates.
Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 without proposed Rider RGGI charge.
Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 with proposed Rider RGGI charge.
Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 with proposed Rider RGGI charge.
Reflects total current feel level of \$5.0.07021 per kWh.
The rates used in this schedule are based on the revenue requirements as filed in each case.

VIRGINIA ELECTRIC AND POWER COMPANY TYPICAL BILLS - SCHEDULE GS-4 CALCULATED FOR 40% AND 60% ON-PEAK KWH USAGE PRIMARY SERVICE

	PERCENT DIFFERENCE	2.0%	3.4% 3.4%	4.5% 4.5%	2.0% 2.0%	3.5% 3.4%	4.5% 4.5%	2.0%	3.5% 3.5%	4.5% 4.5%	2.0%	3.5% 3.5%	8. 8. 8. 8. Cowt	oany Exhibit No Witness: PBH Schedule 4 Page 7 of 10
	DIFFERENCE	\$238.80 \$238.80	\$477.60 \$477.60	\$716.40 \$716.40	\$2,388.00 \$2,388.00	\$4,776.00 \$4,776.00	\$7,164.00 \$7,164.00	\$4,776.00 \$4,776.00	\$9,552.00 \$9,552.00	\$14,328.00 \$14,328.00	\$14,328.00 \$14,328.00	\$28,656.00 \$28,656.00	\$42,984.00 \$42,984.00	
	TOTAL BILL	\$12,105.07 \$12,129.99	\$14,392.31 \$14,442.15	\$16,679.55 \$16,716.93	\$119,972.63 \$120,221.83	\$142,845.03 \$143,343.43	\$165,717.43 \$166,091.23	\$239,155.49 \$239,653.89	\$284,900.29 \$285,897.09	\$330,645.09 \$331,392.69	\$715,886.78 \$717,381.98	\$853,121.18 \$856,111.58	\$990,355.58 \$992,598.38	
E FOR 1D AFTER 21	FUEL	\$1,702.10 \$1,702.10	\$3,404,20 \$3,404,20	\$5,106.30 \$5,106.30	\$17,021.00	\$34,042.00 \$34,042.00	\$51,063.00 \$51,063.00	\$34,042.00 \$34,042.00	\$68,084.00 \$68,084.00	\$102,126.00 \$102,126.00	\$102,126.00 \$102,126.00	\$204,252.00	\$306,378.00 \$306,378.00	
EFFECTIVE FOR USAGE ON AND AFTER 8/1/2021	APPLICABLE NON-FUEL RIDERS###	\$3,172.00 \$3,172.00	\$3,445.00 \$3,445.00	\$3,718.00 \$3,718.00	\$31,720.00 \$31,720.00	\$34,450.00 \$34,450.00	\$37,180.00	\$63,440.00 \$63,440.00	\$68,900.00	\$74,360.00 \$74,360.00	\$190,320.00 \$190,320.00	\$206,700.00	\$223,080.00 \$223,080.00	
	BASIC RATE#	\$7,230.97 \$7,255.89	\$7,543.11 \$7,592.85	\$7,855.25 \$7,892.63	\$71,231.63	\$74,353.03 \$74,851.43	\$77,474.43 \$77,848.23	\$141,673.49	\$147,916.29 \$148,913.09	\$154,159.09 \$154,906.69	\$423,440.78 \$424,935.98	\$442,169.18 \$445,159.58	\$460,897.58 \$463,140.38	
	TOTAL	\$11,866.27 \$11,891.19	\$13,914.71 \$13,964.55	\$15,963.15 \$16,000.53	\$117,584.63	\$138,069.03 \$138,567.43	\$158,553.43 \$158,927.23	\$234,379.49 \$234,877.89	\$275,348.29 \$276,345.09	\$316,317.09 \$317,064.69	\$701,558.78 \$703,053.98	\$824,465.18 \$827,455.58	\$947,371.58 \$949,614.38	er RGGI change. r RGGI change. or for 30 days.
E FOR ND AFTER 21	FUEL	\$1,702.10 \$1,702.10	\$3,404.20 \$3,404.20	\$5,106.30 \$5,106.30	\$17,021.00	\$34,042.00 \$34,042.00	\$51,063.00 \$51,063.00	\$34,042.00 \$34,042.00	\$68,084.00 \$68,084.00	\$102,126.00 \$102,126.00	\$102,126.00 \$102,126.00	\$204,252.00 \$204,252.00	\$306,378.00 \$306,378.00	ithout proposed Ride with proposed Ride 's on-peak load fact
EFFECTIVE FOR USAGE ON AND AFTER 8/1/2021	APPLICABLE NON-FUEL RIDERS##	\$2,933.20 \$2,933.20	\$2,967.40 \$2,967.40	\$3,001.60 \$3,001.60	\$29,332.00	\$29,674.00 \$29,674.00	\$30,016.00	\$58,664.00 \$58,664.00	\$59,348.00 \$59,348.00	\$60,032.00 \$60,032.00	\$175,992.00	\$178,044.00 \$178,044.00	\$180,096.00 \$180,096.00	ión rates. e August 1, 2021 w Fre August 1, 2021 w filed in each case. Ith assuming a 1909
	BASIC RATE#	\$7,230.97 \$7,255.89	\$7,543.11 \$7,592.95	\$7,855.25 \$7,892.63	\$71,231.63 \$71,480.83	\$74,353.03 \$74,851.43	S77,474.43 S77,848.23	\$141,673.49 \$142,171.89	\$147,916.29 \$148,913.09	\$154,159.09 \$154,906.69	\$423,440.78 \$424,935.98	\$442,169.18 \$445,159.58	\$460,897.58 \$463,140.38	mbedded transmiss riders to be effectiv e riders to be effect ue requirements as med in a base mon
	OFF-PEAK KWH	60,000 40,000	120,000 80,000	180,000 150,000 &	600,000	1,200,000	1,800,000	1,200,000	2,400,000	3,600,000	3,600,000	7,200,000	10,800,000 9,000,000 &	# Basic rate includes base distribution, generation and embedded transmission rates. ## Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 with proposed Rider RGGI change. ### Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 with proposed Rider RGGI change. • Reflects total current fuel level of \$0.017021 per WWn. • The rates used in this schedule are based on the revenue requirements as filed in each case. • On-peak KWh set at maximum level that could be consumed in a base month assuming a 100% on-peak ked factor for 30 days.
	ON-PEAK KWH	40,000	80,000 120,000	120,000 150,000	400,000	800,000	1,200,000	800,000	1,600,000 2,400,000	2,400,000	2,400,000	4,800,000	7,200,000 9,000,000	base distribution d pending applica and pending applica the level of \$0 for schedule are b maximum level t
	LOAD FACTOR	28%	56% 56%	83% 83%	28% 28%	26% 26%	83% 83%	28% 28%	56% 86%	83%	28% 28%	% % % %	83%	rate includes s current an cts current & s total curre is used in th r KWh set at
	BILL	900			5,000			10,000			30,000			# Basic r ## Reflect * Reflect * The rate \$ on-peak

[#] Basic rate includes base distribution, generation and embedded transmission rates.
Reflects current and pending applicable non-base rate ricers to be effective August 1, 2021 with proposed Rider RGGI change.
Reflects current and pending applicable non-base rate ricers to be effective August 1, 2021 with proposed Rider RGGI change.

• Reflects total current the level of 50,017021 per New No.

• The rates used in this schedule are based on the revenue requirements as filed in each case.

§ on-peak KWh set at maximum level that could be consumed in a base month assuming a 100% on-peak load factor for 30 days.

VIRGINIA ELECTRIC AND POWER COMPANY
TYPICAL BILLS - SCHEDULE GS-4
CALCULATED FOR 40% AND 60% ON-PEAK KWH USAGE
TRANSMISSION SERVICE

													Compa	ny Exhibit No Witness: PBH
	PERCENT DIFFERENCE	2.1%	3.6%	4.6%	2.1%	3.6%	4.7%	2.1%	3.6%	4.7%	218	3.6% 3.6%	4.7%	Schedule 4 Page 8 of 10
	DIFFERENCE	\$238.80 \$238.80	\$477.60 \$477.60	\$716.40 \$716.40	\$2,388.00 \$2,388.00	\$4,776.00 \$4,776.00	\$7,164.00 \$7,164.00	\$4,776.00 \$4,776.00	\$9,552.00 \$9,552.00	\$14,328.00 \$14,328.00	\$14,328.00 \$14,328.00	\$28,656.00 \$28,656.00	\$42,984.00 \$42,984.00	
:	TOTAL BILL	\$11,593.07	\$13,880.31 \$13,930.15	\$16,167.55 \$16,204.93	\$114,852.63 \$115,101.83	\$137,725.03 \$138,223.43	\$160,597.43 \$160,971.23	\$229,585.49 \$230,083.89	\$275,330,29 \$276,327.09	\$321,075.09 \$321,822.69	\$688,516.78 \$690,011.98	\$825,751.18 \$828,741.58	\$962,985,58 \$965,228.38	
E FOR ID AFTER 21	FUEL	\$1,702.10 \$1,702.10	\$3,404.20 \$3,404.20	\$5,106.30 \$5,106.30	\$17,021.00 \$17,021.00	\$34,042.00 \$34,042.00	\$51,063.00 \$51,063.00	\$34,042.00 \$34,042.00	\$68,084.00 \$68,084.00	\$102,126.00 \$102,126.00	\$102,126.00	\$204,252.00 \$204,252.00	\$306,378.00 \$306,378.00	
EFFECTIVE FOR USAGE ON AND AFTER 8/1/2021	APPLICABLE NON-FUEL RIDERS###	\$3,098.00 \$3,098.00	\$3,371.00 \$3,371.00	\$3,644.00 \$3,644.00	\$30,980.00 \$30,980.00	\$33,710.00 \$33,710.00	\$36,440.00 \$36,440.00	\$61,960.00 \$61,960.00	\$67,420.00 \$67,420.00	\$72,880.00 \$72,880.00	\$185,880.00	\$202,260.00	\$218,640.00 \$218,640.00	
	BASIC RATE#	\$6,792.97 \$6,817.89	\$7,105.11 \$7,154.95	\$7,417.25 \$7,454.63	\$66,851.63 \$67,100.83	\$69,973.03 \$70,471.43	\$73,094.43 \$73,468.23	\$133,583.49 \$134,081.89	\$139,826.29 \$140,823.09	\$145,069.09 \$146,816.69	\$400,510.78 \$402,005.98	\$419,239.18 \$422,229.58	\$437,967.58 \$440,210.38	
	TOTAL BILL	\$11,354.27 \$11,379.19	\$13,402.71 \$13,452.55	\$15,451.15 \$15,488.53	\$112,464.63 \$112,713.83	\$132,949.03 \$133,447.43	\$153,433.43 \$153,807.23	\$224,809.49 \$225,307.89	\$265,778.29 \$266,775.09	\$306,747.09 \$307,494,69	\$674,188.78 \$675,683.98	\$797,095.18 \$800,085.58	\$920,001.58 \$922,244.38	er RGGI change. r RGGI change. or for 30 days.
IE FOR ND AFTER 121	FUEL	\$1,702.10 \$1,702.10	\$3,404.20 \$3,404.20	\$5,106.30 \$5,106.30	\$17,021.00 \$17,021.00	\$34,042.00 \$34,042.00	\$51,063.00 \$51,063.00	\$34,042.00 \$34,042.00	\$68,084.00 \$68,084.00	\$102,126.00 \$102,126.00	\$102,126.00 \$102,126.00	\$204,252.00 \$204,252.00	\$306,378.00 \$306,378.00	uthout proposed Rick with proposed Ride % on-peak load fact
EFFECTIVE FOR USAGE ON AND AFTER 8/1/2021	APPLICABLE NON-FUEL RIDERS##	\$2,859.20 \$2,859.20	\$2,893.40 \$2,893.40	\$2,927.60 \$2,927.60	\$28,592.00 \$28,592.00	\$28,934.00 \$28,934.00	\$29,276.00 \$29,276.00	\$57,184.00 \$57,184.00	\$57,868.00 \$57,868.00	\$58,552.00 \$58,552.00	\$171,552.00	\$173,604.00 \$173,604.00	\$175,656.00 \$175,656.00	sion rates. e August 1, 2021 w tive August 1, 2021 filed in each case. th assuming a 1001
	BASIC RATE#	\$6,792.97 \$6,817.89	\$7,105.11 \$7,154.95	\$7,417.25 \$7,454.63	\$66,851.63 \$67,100.83	\$69,973.03 \$70,471.43	\$73,094.43 \$73,468.23	\$133,583.49 \$134,081.89	\$139,826.29 \$140,823.09	\$146,069.09 \$146,816.69	\$400,510.78 \$402,005.98	\$419,239.18 \$422,229.58	\$437,967.58 \$440,210.38	# Bask rate includes base distribution, generation and embedded transmission rates. ## Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 with proposed Rider RGGI change. ### Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 with proposed Rider RGGI change. ### Reflects to current trail level of 2017021 per kWn. ### The rates used in this schedule are based on the revenue requirements as filed in each case. ### On-peak kWn set at maximum level that could be consumed in a base month assuming a 100% on-peak load factor for 30 days.
	OFF-PEAK KWH	60,000 40,000	120,000 80,000	180,000 150,000 &	600,000	1,200,000	1,800,000	1,200,000	2,400,000	3,000,000 &	3,600,000 2,400,000	7,200,000	10,800,000 9,000,000 &	Basic rate includes base distribution, generation and e Reflects current and pending applicable non-base rate If Reflects total current tuel pending applicable non-base ra reflects total current fuel level of \$0.017021 per kWn. The rates used in this schedule are based on the reven on-peak kWn set at maximum level that could be const
	ON-PEAK KWH	40,000 60,000	80,000 120,000	120,000	400,000	800,000	1,200,000	800,000	1,500,000	2,400,000	2,400,000	4,800,000 7,200,000	7,200,000	base distributio pending applic nd pending app t fuel level of \$\mathbb{X}\$ schedute are t naximum level i
	LOAD FACTOR	28% 28%	56% 56%	83 % 83 %	28% 28%	56% 56%	83 % %	28% 28%	56% 56%	83% 83%	28% 28%	56% 56%	88 8 %	ate includes current and as current ar stotal curren s used in this KWh set at r
	BILL	200			2,000			10,000			30,000			# Basic ra ## Reflects ### Reflects • Reflects • The rates

[#] Basic rate includes base distribution, generation and embedded transmission rates.
Reflects current and pending applicable non-base rate ricers to be effective August 1, 2021 without proposed Rider RGGI change.
Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 with proposed Rider RGGI change.
• Reflects bate current free level of \$0.017021 per kWn.
• The rates used in this schedule are based on the revenue requirements as filed in each case.

\$ on-peak kWn set at maximum level that could be consumed in a base month assuming a 100% on-peak load factor for 30 days.

VIRGINIA ELECTRIC AND POWER COMPANY TYPICAL BILLS - CHURCH AND SYNAGOGUE - SCHEDULE 5C

SUMMER MONTHS

EFFECTIVE FOR USAGE ON AND AFTER

EFFECTIVE FOR USAGE ON AND AFTER

		8/1/202	21			8/1/202	:1			
		APPLICABLE				APPLICABLE				
	BASIC	NON-FUEL		TOTAL	BASIC	NON-FUEL		TOTAL		PERCENT
KWH	RATE#	RIDERS##	FUEL .	BILL	RATE #	RIDERS###	FUEL*	BILL	DIFFERENCE	DIFFERENCE
1,500	\$112.36	\$44.19	\$25.53	\$182,08	\$112.38	\$47.77	\$25,53	\$185.66	\$3,58	2.0%
3,000	\$216.72	\$88.34	\$51.06	\$356.12	\$216.72	\$95.50	\$51.06	\$363.28	\$7.16	2.0%
5,000	\$348.59	\$147.28	\$85,11	\$580.98	\$348.59	\$159.22	\$85.11	\$592.92	\$11.94	2.1%
7,500	\$513.42	\$220,87	\$127.68	\$861.95	\$513,42	\$238.78	\$127.66	\$879.86	\$17.91	2.1%
10,000	\$678.25	\$294.47	\$170.21	\$1,142.93	\$678.25	\$318.35	\$170.21	\$1,166.81	\$23.88	2.1%
15,000	\$1,007.92	\$441.75	\$255.32	\$1,704.99	\$1,007.92	\$477.57	\$255.32	\$1,740.81	\$35.82	2.1%

BASE MONTHS

EFFECTIVE FOR USAGE ON AND AFTER 8/1/2021

EFFECTIVE FOR USAGE ON AND AFTER 8/1/2021

			1	8/1/202			17	8/1/202		
				APPLICABLE				APPLICABLE		
PERCENT		TOTAL		NON-FUEL	BASIC	TOTAL		NON-FUEL	BASIC	
NCE DIFFERENCE	DIFFERENCE	BILL	FUEL*	RIDERS###	RATE#	BILL	FUEL*	RIDERS##	RATE#	<u>KWH</u>
3.58 2.0	\$3.58	\$185.66	\$25.53	\$47.77	\$112.36	\$182.08	\$25.53	\$44.19	\$112.36	1,500
7.18 2.0	\$7.18	\$363.28	\$51.06	\$95.50	\$216.72	\$356.12	\$51.06	\$88.34	\$216.72	3,000
1,94 2.1	\$11,94	\$581.74	\$85.11	\$159.22	\$337,41	\$569.80	\$85,11	\$147,28	\$337,41	5,000
7.91 2.1	\$17.91	\$854.71	\$127.68	\$238.78	\$488.27	\$836,80	\$127.66	\$220.87	\$488.27	7,500
3,88 2.2	\$23,88	\$1,127.69	\$170.21	\$318,35	\$639,13	\$1,103.81	\$170.21	\$294.47	\$639.13	10,000
5.82 2.2	\$35.82	\$1,673.74	\$255.32	\$477.57	\$940.85	\$1,637.92	\$255.32	\$441.75	\$940.85	15,000

[#] Basic rate includes base distribution, generation and embedded transmission rates.
Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 without proposed Rider RGGI change.
Reflects current and pending applicable non-base rate riders to be effective August 1, 2021 with proposed Rider RGGI change.

* Reflects total current fuel level of \$0.017021 per kWh.

^{**} The rates used in this schedule are based on the revenue requirements as filed in each case.

BILL COMPONENTS	August 2021			
DISTRIBUTION - BASE	s	25.84		
GENERATION - BASE	\$	35.98		
TRANSMISSION	\$	20,29		
FUEL	\$	17.02		
DISTRIBUTION AS	s	2.17		
GENERATION AS	\$	13.51		
ENVIRONMENTAL AS	\$	4,24		
DSM/EE	<u>s</u>	1.47		
TOTAL BILL		120 62		

		RATES		RATES		1,000	1,000	ì	
BILL COMPONENTS	£	SUMMER	юи	N-SUMMER	<u>s</u>	UMMER	NON-SUMMER	W	EIGHTED
Basic Customer Charge		\$6,58		\$8,58	\$	6,58	\$ 6.58	\$	6.58
Distribution 800 KWh	\$	0.021088	\$	0.021086	s	16.87	\$ 18.87	\$	16.87
Distribution Over 800 kWh	\$	0.011943	\$	0.011943	\$	2.39	\$ 2.39	\$	2.39
Electricity Supply Service 800 kWh	\$	0.035826	\$	0.035826	\$	28.66	\$ 28.66	\$	28.66
Elestricity Supply Service Over 600 kWh	s	0.054500	\$	0,027632	\$	10,90	\$ 5.53	\$	7,32
Base Transmission	s	0.009700	\$	0.009700	\$	9.70	s 9.70	8	9.70
Rider A - Fuel Pactor	\$	0.017021	\$	0.017021	s	17.02	\$ 17.02	\$	17.02
Rider B - Blomass (A6)*	\$	0.000449	s	0.000449	\$	0.45	\$ 0.45	\$	0.45
Rider BW - Brunswick County (A6)	s	0.001947	\$	0,001947	\$	1,95	\$ 1.95	\$	1.95
Rider C1A - (A5)	\$	0.000056	s	0.000058	s	0.08	\$ 0,06	\$	0,08
Rider C2A - (A5)	\$	0.000176	\$	0.000176	\$	0.18	s 0,18	\$	0.18
Rider C3A - (A5)	s	0.001230	\$	0.001230	s	1,23	\$ 1,23	s	1.23
Rider GV - Greensville (A6)*	s	0,002853	\$	0.002853	s	2,85	\$ 2.85	\$	2.85
Rider R - Bear Garden (A6)*	\$	0.001102	s	0.001102	s	1.10	\$ 1,10	\$	1,10
Rider 8 - VCHEC (A8)*	\$	0.003811	s	0.003611	s	3.61	\$ 3,61	\$	3,61
Rider T1 - Transmission (A4)	\$	0.010591	5	0.010591	s	10,59	\$ 10.59	5	10,59
Rider U - Strategic Underground Program (A8)*	s	0.002138	s	0.002138	s	2,14	\$ 2,14	\$	2,14
Rider US-2 - 2016 Solar Projects (AS)	\$	0,000188	s	0.000188	s	0,19	\$ 0.19	\$	0.19
Rider US-3 - 2018 Solar Projects (A6)*	s	0.000718	s	0.000718	s	0.72	\$ 0.72	\$	0,72
Rider W - Warren County (A6)*	s	0.002225	s	0.002225	5	2.23	\$ 2,23	\$	2,23
Rider E - Environmental Projects (A5)	s	0.001668	\$	0.001668	\$	1.67	s 1.67	\$	1,67
Rider US-4 - Solar Projects (A6)*	\$	0.000221	\$	0.000221	\$	0.22	\$ 0.22	\$	0.22
Rider RBB - Rural Broadband Pilot Projects (AS)*	5	0,000027	\$	0.000027	\$	0.03	\$ 0.03	\$	0.03
Rider RGGI - (A5)*	\$	0.002388	s	0.002388	s	2,39	\$ 2.39	\$	2,39
Rider RPS - (A5)*	s	0.000182	\$	0.000182	s	0,18	\$ 0,18	\$	0,18
Ridor CE - (AB)*	s	0.000192	\$	0.000192	s	0.19	\$ 0.19	s	0.19
					S	124,10	s 118.73] s	120.52
BLEND (SUMMER x 4 - NON-SUMMER x 8)					\$	496,40	\$ 949.84		

^{*}Pending SCC Approval

Dominion Energy Virginia Residential Schedule 1 Typical Bill Based on 1,000 kWhs

Seasonally Weighted Bill (September 01, 2020)

\$ 116.87

		Total Bill	% Change from	ı
Seasonally Weighted Bill	Change	\$116.87	9/01/2020	Notes
Rider E (Approved Eff. November 1, 2020)	\$ (0.32)		-0.27%	(1)
Total Changes from September 1, 2020 to November 1, 2020	\$ (0.32)	\$ 116.55	-0.27%	

Seasonally Weighted Bill	Ch	ange	Total Bill \$116.55	% Change from 11/01/2020	Notes
Rider B (Proposed Eff. April 1, 2021)	\$	(0.18)		-0.15%	(2)
Rider R (Proposed Eff. April 1, 2021)	\$	0.22		0.19%	(3)
Rider S (Proposed Eff. April 1, 2021)	\$	(0.23)		-0.20%	(4)
Rider W (Proposed Eff. April 1, 2021)	\$	0.15		0.13%	(5)
Rider GV (Proposed Eff. April 1, 2021)	\$	0.25		0.21%	(6)
Rider U (Proposed Eff. April 1, 2021)	\$	0.74		0.63%	(7)
Total Changes from November 1, 2020 to April 1, 2021	\$	0.95	\$ 117.50	0.82%	

					% Change	
			То	tal Bill	from	
Scasonally Weighted Bill	Ch	nange	\$1	17.50	4/01/2021	Notes
Rider US3 (Proposed Eff. June 1, 2021)	\$	0.16			0.14%	(8)
Rider US4 (Proposed Eff. June 1, 2021)	\$	0.07			0.06%	(9)
Rider CE (Proposed Eff. June 1, 2021)	\$	0.19			0.16%	(10)
Total Changes from April 1, 2021 to June 1, 2021	\$	0.42	\$	117.92	0.36%	

Seasonally Weighted Bill	Chang		Total Bill \$117.92	% Change from 6/01/2021	Notes
Rider RPS (Proposed Eff. August 1, 2021)		.18	 -	0.15%	(11)
Rider RGGI (Proposed Eff. August 1, 2021)	\$ 2	.39		2.03%	(12)
Rider RBB (Proposed Eff. August 1, 2021)	\$ 0	.03		0.03%	(13)
Total Changes from June 1, 2021 to August 1, 2021	\$ 2.	60 \$	120.52	2.20%	

1 Proposed Rider E Change Current Rider E (PUR-2018-00195) Approved Rider E 11/1/2020 (PUR-2020-00003) Impact of Change for 1,000 kWh bill	Schedulc 1 1,000 kWh Rate per kWh Bill Impact \$0.001986 \$ 1.99 \$0.001668 \$ 1.67 \$ (0.32)
2 Proposed Rider B Change Current Rider B (Approved 4/1/2020 (PUR-2019-00085)) Proposed Rider B (Proposed 4/1/2021 (PUR-2020-00099) Impact of Change for 1,000 kWh bill	Schedule 1 1,000 kWh Rate per kWh Bill Impact \$0.000630 \$ 0.63 \$0.000449 \$ 0.45 \$ (0.18)
3 Proposed Rider R Change Current Rider R (Approved 4/1/2020 (PUR-2019-00087)) Proposed Rider R (Proposed 4/1/2021 (PUR-2020-00101) Impact of Change for 1,000 kWh bill	Schedulc 1 1,000 kWh Rate per kWh Bill Impact \$0.000877 \$ 0.88 \$0.001102 \$ 1.10 \$ 0.22
4 Proposed Rider S Change Current Rider S (Approved 4/1/2020 (PUR-2019-00088) Proposed Rider S (Proposed 4/1/2021 (PUR-2020-00102) Impact of Change for 1,000 kWh bill	Schedule I 1,000 kWh Rate per kWh Bill Impact \$0.003838 \$ 3.84 \$0.003611 \$ 3.61 \$ (0.23)

	-		
		Company	Exhibit No
	Cahadula I	_	Witness: PBH
5 Proposed Rider W Change	Schedule 1 Rate per kWh	1,000 kWh Bill Impact	Schedule 5
Current Rider W (Approved Proposed 4/1/2020 (PUR-2019-00089))	\$0.002084	\$ 2.08	Page 2 of 2
Proposed Rider W (Proposed 4/1/2021 (PUR-2020-00103)	\$0.002225	\$ 2.23	
Impact of Change for 1,000 kWh bill		\$ 0.15	
,			
6 B 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Schedule I	1,000 kWh	
6 Proposed Rider GV Change	Rate per kWh		
Current Rider GV (Approved 4/1/2020 (PUR-2019-00086)) Proposed Rider GV (Proposed 4/1/2021 (PUR-2020-00100)	\$0.002601	\$ 2.60	
Impact of Change for 1,000 kWh bill	\$0.002853	\$ 2.85 \$ 0.25	
implied of Change to 1,000 kwill bill		5 U.23	
	Schedule 1	1,000 kWh	
7 Proposed Rider U Change	Rate per kWh	Bill Impact	
Current Rider U (2/1/2020 (PUR-2019-00046))	\$0.001403	\$ 1.40	
Proposed Rider U (Proposed 4/1/2021 (PUR-2020-00096))	\$0.002136	\$ 2.14	
Impact of Change for 1,000 kWh bill		\$ 0.74	
	Schedule 1	1,000 kWh	
8 Proposed Rider US-3	Rate per kWh	,	
Current Rider US3 (PUR-2019-00104)	\$0.000559	\$ 0.56	
Proposed Rider US3 (PUR-2020-00122)	\$0.000718	\$ 0.72	
Impact of Change for 1,000 kWh bill		\$ 0.16	
9 Proposed Rider US-4	Schedule 1 <u>Rate per kWh</u>	1,000 kWh Bill Impact	
Current Rider US4 (PUR-2019-00105)	\$0.000147	\$ 0.15	
Proposed Rider US4 (PUR-2020-00123)	\$0.000221	\$ 0.13	
Impact of Change for 1,000 kWh bill		\$ 0.07	
10 b and Distriction of the control	Schedule I	1,000 kWh	
10 Proposed Rider CE Change Current Rider CE	Rate per kWh \$0.000000	Bill Impact \$ -	
Proposed Rider CE (Proposed 6/1/2021 (PUR-2020-00134))	\$0.000192	\$ 0.19	
Impact of Change for 1,000 kWh bill	\$0.000172	\$ 0.19	
, , , , , , , , , , , , , , , , , , ,		• • • • • • • • • • • • • • • • • • • •	
	Schedule 1	1,000 kWh	
11 Proposed Rider RPS	Rate per kWh		
Current Rider RPS	\$0.000000	\$ -	
Proposed Rider RPS (Proposed 8/1/2021 (PUR-2020-00170))	\$0.000182	\$ 0.18	
Impact of Change for 1,000 kWh bill		\$ 0.18	
	Schedule 1	1,000 kWh	
12 Proposed Rider RGGI	Rate per kWh	Bill Impact	
Current Rider RGGI	\$0.000000	\$ -	
Proposed Rider RGGI (Proposed 8/1/2021 (PUR-2020-00169))	\$0.002388	\$ 2.39	
Impact of Change for 1,000 kWh bill		\$ 2.39	
	Schedule I	1,000 kWh	
13 Proposed Rider RBB Change	Rate per kWh	Bill Impact	
Current Rider RBB	\$0.000000	\$ -	
Proposed Rider RBB (Proposed 8/1/2021 (PUR-2020-00197))	\$0.000027	\$ 0.03	
Impact of Change for 1,000 kWh bill		\$ 0.03	

Petition of Virginia Electric and Power Company For approval of a rate adjustment clause, designated Rider RGGI, under § 56-585.1 A 5 e of the Code of Virginia

Projected Costs by Type of Cost

Instructions: Applicant shall provide a schedule of all projected costs by type of cost and year associated with each rate adjustment clause pursuant to § 56-585.1 A 4, A 5 b, c and d or A 6 of the Code of Virginia that has been approved by the commission or for which the applicant is seeking initial approval.

See attached Filing Schedule 46A, Statement 1.

Company Exhibit No. ____ Witness: CEM, STC Filing Schedule 46A Statement 1 2 of 2

Virginia Electric and Power Company Rider RGGI -- Actual and Projected Allowance Activity For the Period September 1, 2020 to July 31, 2022

		Purch	Purchases			Amortization		Ending B	alance	W/A Co	st
		<u>Dollars</u>	<u>Allowances</u>		<u>Dollars</u>	<u>Allowances</u>		<u>Dollars</u>	<u>Allowances</u>		
Sep-20	\$	6,797,500	1,000,000	\$	-	-	\$	6,797,500	1,000,000	\$	6.80
Oct-20		-			-	-		6,797,500	1,000,000		6.80
Nov-20		-	-		-	•		6,797,500	1,000,000		6.80
Dec-20		6,910,000	1,000,000		•	-		13,707,500	2,000,000		6.85
Jan-21		-	-		(9,166,802)	(1,337,487)		4,540,698	662,513		6.85
Feb-21		-	-		(9,514,870)	(1,388,272)		(4,974,173)	(725,759)		6.85
Mar-21		34,550,000	5,000,000		(10,018,745)	(1,447,889)		19,557,082	2,826,351		6.92
Apr-21		-	-		(7,949,021)	(1,148,777)		11,608,061	1,677,574		6.92
May-21		-	-		(9,794,144)	(1,415,430)		1,813,918	262,144		6.92
Jun-21		34,550,000	5,000,000		(11,283,786)	(1,632,852)		25,080,131	3,629,292		6.91
Jul-21		=	-		(14,464,997)	(2,093,198)		10,615,134	1,536,093		6.91
Aug-21		-	-		(14,865,325)	(2,151,129)		(4,250,190)	(615,036)		6.91
Sep-21		34,550,000	5,000,000		(10,500,072)	(1,519,562)		19,799,738	2,865,402		6.91
Oct-21		-	-		(6,033,347)	(873,141)		13,766,390	1,992,261		6.91
Nov-21		-	-		(8,539,382)	(1,235,813)		5,227,008	756,448		6.91
Dec-21		34,550,000	5,000,000		(11,184,563)	(1,618,607)		28,592,444	4,137,841		6.91
Jan-22		-	-		(11,232,421)	(1,625,533)		17,360,023	2,512,308		6.91
Feb-22		-	-		(11,569,060)	(1,674,251)		5,790,964	838,057		6.91
Mar-22		33,450,000	5,000,000		(11,099,753)	(1,651,361)		28,141,210	4,186,696		6.72
Apr-22		-	-		(9,685,594)	(1,440,970)		18,455,616	2,745,726		6.72
May-22		-	-		(8,427,843)	(1,253,849)		10,027,773	1,491,877		6.72
Jun-22		33,450,000	5,000,000		(11,056,885)	(1,650,957)		32,420,887	4,840,920		6.70
Jul-22	_	-		_	(15,323,476)	(2,288,023)		17,097,411	2,552,898		6.70
Totals	\$	218,807,500	32,000,000	\$	(201,710,089)	(29,447,103)	\$	17,097,411	2,552,898		6.70

Company Exhibit No. ____ Witness: CEM Filing Schedule 46A Statement 2 Page 1 of 11

W

Petition of Virginia Electric and Power Company For approval of a rate adjustment clause, designated Rider RGGI, under § 56-585.1 A 5 e of the Code of Virginia

Documentation Supporting the Projected Costs

Instructions: Provide all documents, contracts, studies, investigations or correspondence that support projected costs proposed to be recovered via a rate adjustment clause.

See attached Filing Schedule 46A, Statement 2.





MARKET MONITOR REPORT FOR AUCTION 49

Prepared for:

RGGI, Inc., on behalf of the RGGI Participating States

Prepared By:



September 4, 2020

(9)

|₩) (4)

POTOMAC ECONOMICS

This report was prepared by Potomac Economics (the contractor) in the course of performing work contracted for and sponsored by RGGI, Inc. on behalf of states participating in RGGI (Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, and Vermont). The opinions expressed in this report do not necessarily reflect those of RGGI, Inc. or any of the states participating in RGGI, and reference to any specific product, service, process, or method does not constitute an implied or expressed recommendation or endorsement of it. Further, RGGI, Inc., the states participating in RGGI, and the contractor make no warranties or representations, expressed or implied, as to the fitness for particular purpose or merchantability of any product, apparatus, or service, or the usefulness, completeness, or accuracy of any processes, methods, or other information contained, described, disclosed, or referred to in this report. RGGI, Inc., the states participating in RGGI, and the contractor make no representation that the use of any product, apparatus, process, method, or other information will not infringe privately owned rights and will assume no liability for any loss, injury, or damage resulting from, or occurring in connection with, the use of information contained, described, disclosed, or referred to in this report.

The Regional Greenhouse Gas Initiative (RGGI) is the first mandatory market-based regulatory program in the U.S. to reduce greenhouse gas emissions. RGGI is a cooperative effort of New England and Mid-Atlantic states to reduce emissions of carbon dioxide (CO₂) from the power sector.

RGGI, Inc. is a non-profit corporation created to provide technical and administrative services to the states participating in the Regional Greenhouse Gas Initiative.

T. C. C.

(A)

MARKET MONITOR REPORT FOR AUCTION 49

As the Market Monitor for the RGGI CO₂ allowance market, Potomac Economics monitors the conduct of market participants in the auctions and in the secondary market to identify indications of market manipulation or collusion. We also review the administration of the allowance auctions by Enel X. This report summarizes our findings regarding RGGI Auction 49, which was held on September 2, 2020.

We observed the auction as it occurred and have completed our review and analysis of its results. Based on our review of bids in the auction, we find no material evidence of collusion or manipulation by bidders.

Fifty-five bidders participated in the offering of CO₂ allowances. Bids were submitted to purchase 2.6 times the available supply of allowances, resulting in a clearing price of \$6.82 per ton. Compliance-Oriented Entities purchased 66 percent of the allowances in the offering. There was no indication of barriers to participation in the auction.

Based on our review of the administration of the market, we found that:

- The auction was administered in a fair and transparent manner in accordance with the noticed auction procedures and limitations.
- The auction results were consistent with the market rules and the bids received.
- Sensitive information was treated appropriately by the auction administrator.
- There were no indications of issues with the auction platform such as hardware or software problems, communications issues, or security breaches.

In summary, the results of our monitoring of RGGI Auction 49 raise no material concerns regarding the auction process, barriers to participation in the auction, or the competitiveness of the auction results. The appendix provides additional information about the market for RGGI CO₂ allowances and outcomes of the auction.

Witness: CFM Filling Schedule 46A Statement 2 Page 5 of 11 In 49

Company Exhibit No.

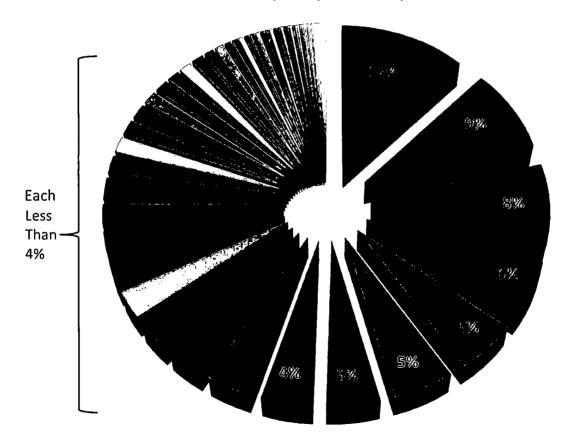
APPENDIX

A. DISPERSION OF PROJECTED DEMAND

The wide dispersion of projected demand for RGGI allowances across compliance entities facilitates the competitive performance of the auction.

The demand for CO₂ allowances is based on the requirement for each compliance entity in the RGGI footprint to obtain one CO₂ allowance for each short ton of CO₂ that it emits from the sale of electricity. The following figure shows the relative shares of projected demand for RGGI allowances by compliance entity. The largest compliance entity represents only 12 percent of the total projected demand for allowances. Nearly half of the projected demand is composed of entities that each account for less than 4 percent of the total demand. Participation by a large number of entities facilitates the competitive performance of the auction.

Figure 1: Projected Demand for RGGI Allowances
Shares by Compliance Entity



<u>1</u>120013

B. SUMMARY OF PURCHASES OF ALLOWANCES IN AUCTION 49

Awards were distributed across 34 bidders with six bidders purchasing one million tons or more and 19 bidders purchasing 200,000 tons or more.

This report summarizes participation in Auction 49. Participation in the RGGI market involves many different firms with various interests in RGGI allowances. Some participate in order to satisfy compliance obligations, others have investment interests, and still others participate for both purposes. To more effectively track the activity of different participants, we use several classifications for participant firms. Figure 2 summarizes the relationship between these classifications.

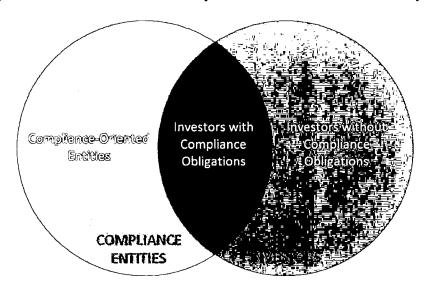


Figure 2: Classifications of Participant Firms in the RGGI Marketplace

- Compliance-Oriented Entities are compliance entities that appear to acquire and hold allowances primarily to satisfy their compliance obligations.
- Investors with Compliance Obligations are firms that have compliance obligations but which hold a number of allowances that exceeds their estimated compliance obligations by a margin suggesting they also buy for re-sale or some other investment purpose. These firms often transfer significant quantities of allowances to unaffiliated firms.

The assessment of whether a compliance entity holds a number of allowances that exceeds its compliance obligations by a margin that suggests they are also buying for re-sale or some other investment purpose is based on: (a) the entity's forecasted share of the total compliance obligations for the entire RGGI footprint through 2026, (b) the total number of allowances in circulation, and (c) consideration of the pattern of the entity's allowance transfers to unaffiliated firms versus affiliated firms. Since the designation of a compliance entity as an investor is based on a review of its transactions and holdings, the designation of a particular firm may change over time as more information becomes available.

Ŋ

LOOM!

w

Market Monitor Report for Auction 49



• Investors without Compliance Obligations are firms without any compliance obligations.

These three categories form the basis for two overlapping groups.

- Compliance Entities All firms with compliance obligations² and their affiliates.³ Combines the first and second of the above categories.
- *Investors* All firms which are assessed to be purchasing for investment rather than compliance purposes. Combines the second and third of the above categories.

In Auction 49, Compliance Entities purchased 74 percent of the allowances sold. In the first 49 RGGI auctions, Compliance Entities purchased 74 percent of the allowances sold. In Auction 49, Compliance-Oriented Entities purchased 66 percent of the allowances sold.

After settlement of allowances sold in Auction 49:

- Fifty-one percent of the allowances in circulation will be held by Compliance-Oriented Entities.
- Fifty-eight percent of the allowances in circulation are believed to be held for compliance purposes. The number of allowances that are believed to be held for compliance purposes includes 100 percent of the allowances held by Compliance-Oriented Entities and a portion of allowances held by Investors with Compliance Obligations.

The following table shows the quantity of allowances purchased by each bidder. The identity of each bidder is masked, and the bidders are ranked according to the amount of allowances awarded, from largest to smallest.

The Virginia governor has signed legislation providing for it to begin participating in RGGI beginning January 2021. Since this occurred, firms owning Budget Sources in Virginia have been treated as compliance entities in our reports.

Affiliates are firms that: (i) have a parent-subsidiary relationship with a compliance entity, (ii) are subsidiaries of a parent company that has a large interest in a compliance entity, (iii) have substantial control over the operation of a budget source and/or responsibility for acquiring RGGI allowances to satisfy its compliance obligations.

Table 1: Quantity of Allowances Awarded by Bidder

	Number of Allowances						
Bidder	Awarded						
Bidder 1	2,805,785						
Bidder 2	1,500,000						
Bidder 3	1,348,000						
Bidder 4	1,078,000						
Bidder 5	1,000,000						
Bidder 6	1,000,000						
Bidder 7	872,000						
Bidder 8	865,000						
Bidder 9	800,000						
Bidder 10	750,000						
Bidder 11	500,000						
Bidder 12	475,000						
Bidder 13	460,000						
Bidder 14	428,000						
Bidder 15	400,000						
Bidder 16	363,000						
Bidder 17	300,000						
Bidder 18	250,000						
Bidder 19	200,000						
Bidder 20	142,000						
Bidder 21	124,000						
Bidder 22	97,000						
Bidder 23	95,000						
Bidder 24	80,000						
Bidder 25	61,000						
Bidder 26	50,000						
Bidder 27	39,000						
Bidder 28	25,000						
Bidder 29	25,000						
Bidder 30	24,000						
Bidder 31	19,000						
Bidder 32	10,000						
Bidder 33	4,000						
Bidder 34	3,000						

N

1000

(LS)

C. DISPERSION OF BIDS IN AUCTION 49

Bids were submitted by 43 Compliance-Oriented Entities and 12 Investors. In our review of the bids and the qualification process, we found no material evidence of anti-competitive conduct or inappropriate barriers to participation.

The following figure summarizes the quantity of allowances for which bids were submitted by each bidder. Nine Compliance-Oriented Entities and seven Investors submitted bids for a large quantity of allowances (i.e., at least 1 million tons). Overall, Compliance-Oriented Entities accounted for 55 percent of the quantity of allowances for which bids were submitted. The quantity of allowances for which bids were submitted was 2.6 times the Initial Offering. In the previous auction, the quantity of allowances for which bids were submitted was 2.0 times the Initial Offering.

The bid quantities were widely distributed among the 55 bidders. The concentration of bids, using the Herfindahl-Hirschman Index ("HHI"), was relatively low at 523, somewhat higher than in recent auctions. The HHI is a standard measure of concentration calculated by squaring each entity's percent share and then summing the squares across all entities (i.e., the index ranges from 0 to 10,000).

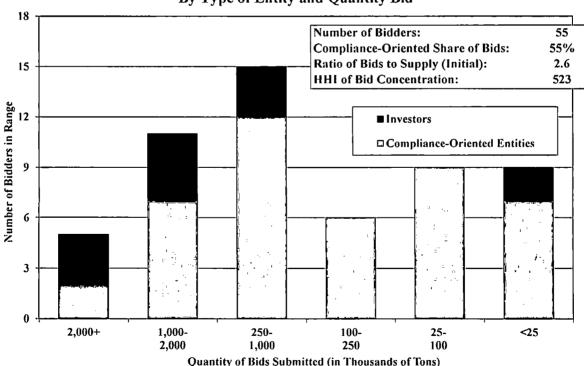


Figure 3: Quantity of Bids Submitted by Entity By Type of Entity and Quantity Bid

W

6100

D. SUMMARY OF BID PRICES IN AUCTION 49

Bids were submitted across a wide range of prices in the auction and the clearing price of \$6.82 was relatively consistent with average bid prices submitted.

The following table reports several statistics regarding the bid prices for bids submitted in Auction 49. The median and mean bid prices are weighted by the quantity of each bid.

Bid Prices:	
Minimum	\$2.32
Maximum	\$10.00
Average (Median)	\$6.72
Average (Mean)	\$6.67
Clearing Price:	\$6.82

N

E B B

W

POTOMAC ECONOMICS

Market Monitor Report for Auction 49

E. NAMES OF POTENTIAL BIDDERS IN AUCTION 49

In accordance with Sections 2.8 and 3 of the Auction Notice for CO₂ Allowance Auction 49, the Participating States are releasing the names of Potential Bidders in Auction 49. The states defined potential bidders as: "Each Applicant that has been qualified and submitted a complete *Intent to Bid.*" The list of 63 Potential Bidders is as follows:

Astoria Energy, LLC
Blue Delta Energy, LLC
BP Products North America Inc.
Caithness Long Island, LLC
Calpine Energy Services, LP
Carbon Lighthouse Association

Castleton Commodities Merchant Trading, LP

City of Vineland

Clay Hills Management Ltd.

Consolidated Edison Comp. of NY, Inc.

CPV Maryland, LLC CPV Shore, LLC CPV Towantic, LLC CPV Valley, LLC

Cricket Valley Energy Center, LLC Delaware City Refining Company, LLC

Dighton Power, LLC DTE Energy Trading, Inc.

Dynegy Marketing and Trade, LLC

ECP Capital LP
Edgewood Energy, LLC
Empire Generating Co., LLC

Equus Power I, LP

Exelon Generation Company, LLC

Footprint Power Salem Harbor Development LP

Hawkeye Energy Greenport

Indeck Energy Serv. of Silver Springs Indeck-Corinth Limited Partnership Indeck-Olean Limited Partnership Indeck-Yerkes Limited Partnership Jamestown Board of Public Utilities

Kendall Green Energy LLC

KMC Thermo, LLC

Koch Supply & Trading, LP

Luminus Capital Partners Master Fund LP

Macquarie Energy, LLC Mercuria Energy America, LLC Morgan Stanley Capital Group, Inc.

National Grid Generation LLC dba National Grid

Nautilus Power, LLC

NextEra Energy Marketing, LLC NRG Power Marketing LLC Old Dominion Electric Cooperative

Pacific Investment Management Company LLC

PCAFILLC

Pinelawn Power, LLC Pixelle Androscoggin LLC

Power Authority of the State of New York PSEG Energy Resources & Trade LLC

RBC

Revere Power, LLC

Rhode Island State Energy Center, LP

Selkirk Cogen Partners, LP

Shell Energy North America (US), LP

Shoreham Energy, LLC Statkraft US, LLC

Taunton Municipal Lighting Plant Tenaska Power Services Co.

Tenaska, Inc. Village of Freeport

Virginia Electric and Power Company

Vitol Inc.

Wallingford Energy, LLC

Company Exhibit No. ____ Witness: JCI Filing Schedule 46B Statement 1 Page 1 of 13

Petition of Virginia Electric and Power Company For approval of a rate adjustment clause, designated Rider RGGI, under § 56-585.1 A 5 e of the Code of Virginia

Annual Revenue Requirement for the Rate Year Ending July 31, 2022

Instructions: Provide the annual revenue requirement over the duration of the proposed rate adjustment clause by year and by class.

See attached Filing Schedule 46B, Statement 1.

Company Exhibit No. ____ Witness: JCI Filing Schedule 46B Statement 1 Page 2 of 13

Virginia Electric and Power Company Rider RGGI Revenue Requirement For the Rate Year August 1, 2021 to July 31, 2022 (000s)

Line <u>No.</u>			
1	Projected Cost Recovery Factor	\$	168,260
2	Actual Cost True-Up Factor		
3	Total Revenue Requirment	<u>\$</u>	168,260

Company Exhibit No. ____ Witness: JCl Filing Schedule 46B Statement 1 Page 3 of 13

Virginia Electric and Power Company Rider RGGI - Projected Cost Recovery Factor For the Rate Year August 1, 2021 to July 31, 2022 (000s)

Line <u>No.</u>		RI	der RGGI
1	Rate Base	\$	53,824
2	Weighted Average Cost of Capital		6,876%
3	Net Operating Income		3,701
4 5 6	Less Interest Expense on Debt Weighted Average Cost Of Debt Weighted Average Debt Component Of JDC Expense Total Weighted Average Cost Of Debt		2.056% <u>0,009%</u> 2.065%
7 8	Rate Base Revenue Requirement - Interest Expense On Debt		53,824 1,111
9	Net Income		2,589
10	Income Tax Gross-up Factor		<u>74.4%</u>
11	Revenue Requirement - Net Income Including Income Taxes		3,481
12	Revenue Requirement - Financing Costs		4,593
13	Revenue Requirement - Operating Expenses		163,668
14	Revenue Requirement Per Projected Cost Recovery Factor	\$	168,260

Company Exhibit No. ____ Witness: JCI Filing Schedule 46B Statement 1 Page 4 of 13

Virginia Electric and Power Company Rider RGGI Rate Base For the Period September 2020 to December 2020 (000s)

	Aug-20	<u>Sep-20</u>	Ö	Oct-20	Nov-20		<u>Dec-20</u>	
Allowances Inventory Cash Working Capital	, ' 	\$ 6,798	\$ ((43)	\$ 6,798	ა ა (6)	\$ 6,798 \$ 6,798 \$ 6,798 \$ 13,708 (43) (43) (43)	
Subtotal	•	6,754		6,754	6,754	-	13,664	
Factor 3 - Energy Factor	80.3494%	80.3494%		80.3494%	80,3494%	3 81	80,3494%	
Rate Base - Virginia Jurisdiction	•	5,427		5,427	5,427	_	10,979	
Unamortized Deferred Costs	, \$	· \$	⋄		· \$	\$,	
Rate Base - Virginia Jurisdiction	, \$	\$ 5,427	۰,	5,427	\$ 5,42	\$ 2	- \$ 5,427 \$ 5,427 \$ 5,427 \$ 10,979	

Company Exhibit No. ____ Witness: JCI Filing Schedule 46B Statement 1 Page 5 of 13

Virginia Electric and Power Company Rider RGGI Rate Base For the Period January 2021 to December 2021 (000s)

No.		<u>Jan-21</u>	Feb-21	<u>Mar-21</u>	<u>Apr-21</u>	<u>May-21</u>	<u>Jun-21</u>	Jul-21	<u>Aug-21</u>	Sep-21	Oct-21	Nov-21	Dec-21	H
1 2	 Allowances Inventory Cash Working Capital 	\$ 4,541 \$ (4,974) \$ 19,557 \$ 11,608 \$ 1,814 \$ 25,080 \$ 10,615 \$ (4,250) \$ 19,800 \$ 13,766 \$ 5,227 \$ 28,592 (167) (167) (167) (167) (167) (167) (167) (167) (167) (167) (167) (19,262 19,262 19,262 19,262 19,262	(4,974) \$	(167)	\$ 11,608	\$ 1,814 \$	25,080 \$	10,615 \$	(4,250) \$	19,800 \$	13,766	\$ 5,227	\$ 28,5	592
т	Subtotal	4,373	(5,142)	19,390	11,441	1,647	24,913	29,877	15,012	\$ 290'68	39,062 \$ 33,029 \$ 24,489 \$ 47,855	\$ 24,489	\$ 47,8	355
4	Factor 3 - Energy Factor	80.3494%	80.3494%	80.3494%	80.3494% 8	80.3494%	80.3494%	80.3494%	80.3494%	80.3494%	80.3494%	80.3494%	80.3494%	94%
Ŋ	Rate Base - Virginia Jurisdiction	3,514	(4,131)	15,580	9,193	1,323	20,017	24,006	12,062	31,386 \$	31,386 \$ 26,538 \$ 19,677 \$	\$ 19,677	\$ 38,451	151
9	6 Unamortized Deferred Costs	\$	\$,	· •	\$. \$	s		59,601 \$ 54,634 \$ 49,667 \$ 44,701 \$ 39,734 \$	\$ 49,667 \$	44,701	\$ 39,734	\$ 34,767	191
7	Rate Base - Virginia Jurisdiction	\$ 3,514 \$	(4,131) \$	15,580	\$ 9,193	\$ 1,323 \$	\$ 819'62	78,641 \$	\$ 3,514 \$ (4,131) \$ 15,580 \$ 9,193 \$ 1,323 \$ 79,618 \$ 78,641 \$ 61,730 \$ 76,087 \$ 66,272 \$ 54,444 \$	76,087 \$	66,272	\$ 54,444	\$ 68,251	251

Company Exhibit No. ____ Witness: JCI Filing Schedule 46B Statement 1 Page 6 of 13

Virginia Electric and Power Company Rider RGGI Rate Base For the Period January 2022 to July 2022 (000s)

:															
S 5		71	<u>Jan-22</u>	ŭΙ	<u>Feb-22</u>	<1	<u>Mar-22</u>	41	<u>Apr-22</u>	ΣĮ	<u>May-22</u>	듸	<u>Jun-22</u>	٦,	<u>Jul-22</u>
1 2	 Allowances Inventory Cash Working Capital 	⋄	\$ 17,360 \$ 5,791 \$ 28,141 \$ 18,456 \$ 10,028 \$ 32,421 \$ 17,097 20,607 20,607 20,607 20,607 20,607 20,607	⋄	5,791	ا م	28,141	₩	18,456 20,607	v	10,028	vs	32,421	v	\$ 17,097
m	Subtotal	₩	\$ 37,967 \$ 26,398 \$ 48,748 \$ 39,063 \$ 30,635 \$ 53,028 \$ 37,704	\$	26,398	φ.	48,748	⋄	39,063	⋄	30,635	\$	53,028	\$	37,704
4	4 Factor 3 - Energy Factor	ω	80.3494%		80.3494%		80.3494%		80.3494% 80.3494% 80.3494%	38	1.3494%	80	.3494%		80.3494%
S	Rate Base - Virginia Jurisdiction	₩	\$ 30,506 \$ 21,211 \$ 39,169 \$ 31,387 \$ 24,615 \$ 42,608 \$ 30,295	4>	21,211	\$	39,169	√ >	31,387	⋄	24,615	\$	42,608	Ŷ	30,295
9	6 Unamortized Deferred Costs	\$	\$ 29,800 \$ 24,834 \$ 19,867 \$ 14,900 \$ 9,933 \$ 4,967 \$	\$	24,834	\$	19,867	\$	14,900	٠,	9,933	\$	4,967	\$	
7	7 Rate Base - Virginia Jurisdiction	❖	\$ 55,340 \$ 41,078 \$ 54,069 \$ 41,320 \$ 29,582 \$ 42,608 \$ 30,295	۰,	41,078	s	54,069	⋄	41,320	⋄	29,582	45	42,608	\$	30,295

Company Exhibit No. ____ Witness: JCI Filing Schedule 46B Statement 1 Page 7 of 13

Virginia Electric and Power Company	Rider RGGI Operating Expenses	For the Rate Year August 1, 2021 to July 31, 2022	(1000)
-------------------------------------	-------------------------------	---	--------

흌		Aur-21	12-day	Oct-21	19003) AURŽI SP21 <u>Oct.21</u> NOv.21 DR221 ERV.23 (ERV.22 MBr.22 ABr.22 MBr.22	DEC-21	15000)	Feb-22	Mar-22	Apr-22	May-22	Mr-22 #1-22	M-22	System <u>Total</u>	Virginia Allocation iurisdiction <u>Factor Total</u>	Vfrginia Iurisdiczion <u>Total</u>
	Allowance Amortization	\$ 14,865	\$ 10,500 \$	6,033	\$ 8,539 \$	11,185 \$	11,232	\$ 11,569	\$ 11,100	989'6 \$	5 8,428	\$ 11,057	5 15,323	\$ 129,518	80.3494%	104,067
	Deferred Cost Amortization (VA Jurisdiction)	4,967	4,967	4,967	4,967	4,967	4,967	4,967	4,967	4,967	4,967	4,967	4,967	59,601		59,601
7	Total Rate Year Expense														ŭ.	163,668

Company Exhibit No. ____ Witness: JCI Filing Schedule 46B Statement 1 Page 8 of 13

Virginia Electric and Power Company Rider RGGI Pre-RAC Cost Deferral For the Period September 2020 to July 31, 2021 (000s)

Line No.		<u> 5ep-20</u>	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	<u>Jun-21</u>	<u> Jul-21</u>
1	Allowance Amortization	\$ -	s -	s -	s - :	\$ 9,167	\$ 9,515	\$ 10,019	\$ 7,949 \$	9,794	\$ 11,284	\$ 14,465
4	Virginia Jurisdictional Allocation Factor	80.35%	80.35%	80.35%	80.35%	80.35%	80.35%	80.35%	80.35%	80.35%	80.35%	80,35 %
5	Virginia Jurisdictional Total		-			7,365	7,645	8,050	6,387	7,870	9,066	11,623
6	Regulatory Asset Balance	-				7,365	15,011	23,061	29,448	37,317	46,384	58,006
7	Regulatory Asset Balance (Net of ADIT)	-				5,478	11,164	17,152	21,902	27,755	34,498	43,143
8	Average Regulatory Asset Balance (Net of ADIT)	•				2,739	8,321	14,158	19,527	24,829	31,127	38,821
9	Virginia Jurisdictional Rate Base	5,427	5,427	5,427	10,979	3,514	(4,131)	15,580	9,193	1,323	20,017	24,006
10	Average Jurisdictional Rate Base	2,713	5,427	5,427	8,203	7,247	(309)	5,724	12,386	5,258	10,670	22,012
11	Pre-Tax Weighted Cost of Capital	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%	0.71%
12	Financing Costs on Deferred Amortization	-				19	59	101	139	177	221	276
13	Financing Costs on Rate Base	19	39	39	58	52	(2)	41	88	37	76	157
14	Total Deferred Costs Including Financing Costs	19	39	39	58	7,436	7,702	8,191	6,614	8,083	9,364	12,055
											Total	59.601

Working

Virginia Electric and Power Company Rider RGGI Cash Working Capital September 1, 2020 to December 31, 2020 (000s)

			Average Daily	Expense (Lead) Lag		Net (Lead)	Capital (Provided)
Line No.	_	Amount	Amount	Days	Revenue Lag	Lag Days	Required
	Amortization Expense						
3	Allowance Amortization	-	-	-	39.1	39.1	-
4	Amortization of Regulatory Assets (Deferred Costs)	-	-	-	39.1	39.1	•
5	Pre RAC Cost Deferral	-	-	-	39.1	39.1	-
6	Pre RAC Cost Deferral - Debt Interest	(58)	(0.48)	-	39.1	39.1	(19)
7	Pre RAC Cost Deferral - Equity	(182)	(1.49)	(39.1)	39.1	-	-
8	Pre RAC Cost Deferral - JDC	(1)	(0.01)	(39.1)	39.1	-	-
12	Interest Expense	58	0.48	(90.9)	39,1	(51.9)	(25)
13	Preferred Dividends	-	-	(39.1)	39.1	-	-
14	JDC Expense	1	0.01	(39.1)	39.1	-	-
15	Income Available for Common Equity	182	1.49	(39.1)	39.1	•	-
16	Totals	-				-	(43)
17	Balance Sheet Items (A/P - Allowance Purchases)	13,708	37.55	-	-	-	-
18	System Cash Working Capital						(43)

Company Exhibit No. ____ Witness: JCI Filing Schedule 46B Statement 1 Page 10 of 13

Virginia Electric and Power Company Rider RGGI Cash Working Capital January 1, 2021 to July 31, 2021 (000s)

<u>Line No.</u>		Amount	Average Daily Amount	Expense (Lead) Lag Days	Revenue Lag	Net (Lead) Lag Days	Working Capital (Provided) Required
	Amortization Expense						
3	Allowance Amortization	-	-	-	39,1	39.1	-
4	Amortization of Regulatory Assets (Deferred Costs)	-	_	-	39.1	39.1	-
5	Pre RAC Cost Deferral	-	-	-	39,1	39.1	-
6	Pre RAC Cost Deferral - Debt Interest	(392)	(1.84)	•	39.1	39.1	(72)
7	Pre RAC Cost Deferral - Equity	(1,227)	(5.76)	(39.1)	39.1	-	-
8	Pre RAC Cost Deferral - JDC	(7)	(0.03)	(39.1)	39.1	•	-
12	Interest Expense	392	1.84	(90.9)	39,1	(51.9)	(95)
13	Preferred Dividends	-	-	(39.1)	39.1	-	•
14	JDC Expense	7	0.03	(39.1)	39.1	•	-
15	Income Available for Common Equity	1,227	5.76	(39.1)	39.1	-	-
16	Totals	-				-	(167)
17	Balance Sheet Items (A/P - Allowance Purchases)	69,100	378.63	-	-	•	-
18	System Cash Working Capital						(167)

Company Exhibit No. ____ Witness: JCI Filing Schedule 46B Statement 1 Page 11 of 13

Virginia Electric and Power Company Rider RGGI Cash Working Capital August 1, 2021 to December 31, 2021 (000s)

Line No.		Amount	Average Daily Amount	Expense (Lead) Lag Days	Revenue Lag	Net (Lead) Lag Days	Capital (Provided) Required
	Amortization Expense						
3	Allowance Amortization	51,123	336,15	_	39.1	39.1	13,130
4	Amortization of Regulatory Assets (Deferred Costs)	24,834	163,29	_	39.1	39.1	6,378
5	Pre RAC Cost Deferral	,	_	_	39.1	39.1	-,
6	Pre RAC Cost Deferral - Debt Interest	_		-	39.1	39,1	-
7	Pre RAC Cost Deferral - Equity	-	-	(39.1)	39.1	•	
8	Pre RAC Cost Deferral - JDC	-	-	(39.1)	39.1	-	-
12	Interest Expense	721	4.74	(90.9)	39.1	(51.9)	(246)
13	Preferred Dividends	-	-	(39.1)	39.1	-	•
14	JDC Expense	13	0.08	(39.1)	39.1	-	-
15	Income Available for Common Equity	2,257	14.84	(39.1)	39.1	-	-
16	Totals	78,946				-	19,262
17	Balance Sheet Items (A/P - Allowance Purchases)	69,100	378.63	-	-	-	-
18	System Cash Working Capital						19,262

Company Exhibit No. ____ Witness: JCI Filing Schedule 46B Statement 1 Page 12 of 13

Working

Virginia Electric and Power Company Rider RGGI Cash Working Capital January 1, 2022 to July 31, 2022 (000s)

			Average Daily	Expense (Lead)	Revenue	Net (Lead)	Capital (Provided)
Line No.		Amount	Amount	Lag Days	Lag	Lag Days	Required
	Amortization Expense						
3	Allowance Amortization	78,395	368,20	-	39.1	39.1	14,382
4	Amortization of Regulatory Assets (Deferred Costs)	34,767	163.29	-	39.1	39.1	6,378
5	Pre RAC Cost Deferral	-	-	-	39.1	39.1	-
6	Pre RAC Cost Deferral - Debt Interest	-	-	-	39.1	39.1	-
7	Pre RAC Cost Deferral - Equity	-	-	(39.1)	39.1	-	-
8	Pre RAC Cost Deferral - JDC	-	•	(39.1)	39.1	•	-
12	Interest Expense	628	2.95	(90.9)	39.1	(51.9)	(153)
13	Preferred Dividends	-	-	(39.1)	39.1	-	•
14	JDC Expense	11	0.05	(39.1)	39.1	•	-
15	Income Available for Common Equity	1,966	9.23	(39.1)	39,1	-	-
16	Totals	115,767				•	20,607
17	Balance Sheet Items (A/P - Allowance Purchases)	66,900	366.58	-	-	-	-
18	System Cash Working Capital						20,607

Company Exhibit No. ____ Witness: JCI Filing Schedule 46B Statement 1 Page 13 of 13

VIRGINIA ELECTRIC AND POWER COMPANY Actual Cost of Capital and Capital Structure As of December 31, 2019

e <u>.</u>	Description		Amount	Percent	Annual Cost	Embedded Cost	Weighted Cost	Pre-Tax Weighted Cost
	Total long-term debt	\$	12,085,529,684	44.926%	\$ 538,619,437	4.457%	2.002%	
	Short-term debt (13-month average)	*	697,797,692	2,594%	14,591,675	2.091%	0.054%	
	Total debt	\$	12,783,327,376	47.520%	553,211,111	4.328%	2.056%	2.056%
	Total preferred stock			0.000%	=	0.000%	0.000%	
	Common stock	\$	5,737,401,834	21.328%		9.200%	1.962%	
	Other paid-in capital		1,112,875,284	4.137%		9.200%	0.381%	
	Retained earnings		7,168,179,892	26.647%		. 9.200%	2.452%	
	AOCI		(29,200,805)	-0.109%		9.200%	-0.010%	
	Adjustments		17,014,963	0,063%		9,200%	0.006%	
	Total common equity	\$	14,006,271,168	52.066%		9.200%	4.790%	6.440%
	Job development tax credits							
	Allocation; debt	\$	51,492,357	0.191%		4.457%	0.009%	0.009%
	Allocation: preferred stock		-	0.000%		0.000%	0.000%	
	Allocation: equity	_	59,675,987	0.222%		9,200%	0.020%	0.027%
	Total Job development tax credits	\$	111,168,344	0.413%		7.003%	0.029%	
	Total Capital	<u>\$</u>	26.900.766.888	100.000%			6.8755%	8,533%

Company Exhibit No. ____ Witness: JCI Filing Schedule 46B Statement 2 Page 1 of 2

Petition of Virginia Electric and Power Company For approval of a rate adjustment clause, designated Rider RGGI, under § 56-585.1 A 5 e of the Code of Virginia

Accounting Procedures and Internal Controls

Instructions: Provide a detailed description of all significant accounting procedures and internal controls that the company will institute to identify all costs associated with each rate adjustment clause.

In accordance with the rules governing utility rate applications and Schedule 46, Virginia Electric and Power Company (the "Company") is providing a description of its accounting procedures and internal controls that it will institute to identify compliance costs associated with the Regional Greenhouse Gas Initiative ("RGGI").

Operations Procedures Overview

The Company uses CBL Markets EMA (Environmental Management Account) as its system of record for trading RGGI carbon dioxide ("CO₂") allowances. EMA captures commercial deal details and facilitates trade life cycle management from deal initiation to completion. EMA also delivers deal details to internal risk and credit management systems and facilitates invoicing and payment processing. The Company creates obligations and tracks progress towards RGGI interim and control period obligations in EMA. The system is also used to create custom reports and notifications.

Accounting Procedures Overview

The Company utilizes Excel to track the inventory of purchased allowances at a weighted average cost (WAC) and amortization as the supporting sub-ledger for the balance and activity recorded in the SAP general ledger. The balance of allowances and activity are recorded to an intangible asset account, Emissions CO₂ Allowances Held for Consumption. The WAC is determined monthly based on the total cost of purchased allowances that have not been amortized divided by the number of allowances held. Monthly amortization is based on the then current WAC. Allowances are amortized in the periods the emissions are generated.

The system amortization expense will be allocated to the respective jurisdictions using the energy-usage related allocation factor described in the rate adjustment clause filing. The consumed tons will be retired following each three-year control period. This typically will occur in the second quarter of such year and will include an entry to clear the accumulated amortization account against the intangible asset account. This is necessary to keep the balances in the accounts from growing indefinitely.

Company Exhibit No. ____ Witness: JCI Filing Schedule 46B Statement 2 Page 2 of 2

Company Internal Controls

The Company has numerous internal controls in place to verify the accuracy, timeliness, and validity of information recorded in its financial books. These internal controls ensure that costs are properly recorded in accordance with Company policies, FERC's Uniform System of Accounts, and U.S. Generally Accepted Accounting Principles (GAAP). The Company audits its internal controls each year as part of its annual audit of internal control over financial reporting. Due to a permanent exemption under the Dodd-Frank Act, the Company's independent auditors are no longer required to audit and attest to the effectiveness of the Company's internal controls over financial reporting in accordance with the standards of the Public Company Accounting Oversight Board (United States). For the Report of Independent Registered Public Accounting Firm on the effectiveness of internal control over financial reporting for Dominion Energy, Inc., the Company's parent company, see the companies' combined Annual Report on Form 10-K filed with the United States Securities and Exchange Commission for the year ended December 31, 2019.

These internal controls include areas such as approval thresholds for performance, payment, and entry into the SAP general ledger system. Multiple levels of review are performed for cut-off, validity, and accuracy of transactional data, account balances, and presentation of the resulting financial information. In addition, various analytics are prepared such as actual costs compared to budget, forecast, and prior year for both income statement and balance sheet and reviewed with management. Depending on the nature and materiality of any items identified, adjustments may be posted in the current or subsequent months.

Company Exhibit No. ___ Witness: PBH Filing Schedule 46C Statement 1 Page 1 of 1

Petition of Virginia Electric and Power Company For approval of a rate adjustment clause, designated Rider RGGI, under § 56-585.1 A 5 e of the Code of Virginia

Allocation of the Revenue Requirement and the Rate Design for the Rate Year Ending July 31, 2022

Instructions: Provide detailed information relative to the applicant's methodology for allocating the revenue requirement among rate classes and the design of the class rates.

For the purpose of this filing, the Company has prepared an energy allocation factor. In Schedule 1 of the testimony of Company Witness Paul B. Haynes, an allocation factor is developed using the forecasted energy usage for the rate year, which is the twelve months ended July 31, 2022. The allocation to the Virginia jurisdiction is 80.3494%.

The Company proposes that the costs be recovered through a uniform charge per kWh from all bundled service customers in the Virginia jurisdiction. Schedule 2 of the testimony of Company Witness Haynes provides the calculation of the proposed Rider RGGI recovery rate. The total Virginia jurisdictional estimated Rider RGGI revenue requirement of approximately \$168.3 million provided in Schedule 1 of the testimony of Company Witness John. C. Ingram is divided by the total estimated Virginia jurisdictional kilowatt-hour ("kWh") sales for August 1, 2021 through July 31, 2022. The result is the proposed Rider RGGI of \$0.002388/kWh, which will be applicable to all Virginia jurisdictional bundled service customers.