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Petition of Virginia Electric and Power Company, For approval of a plan for electric distribution grid transformation projects pursuant to § 56-585.1 A 6 of the Code of Virginia, and for approval of an addition to the terms and conditions applicable to electric service
Case No. PUR-2019-00154

Petition of Virginia Electric and Power Company, For approval of a plan for electric distribution grid transformation projects pursuant to § 56-585.1 A 6 of the Code of Virginia
Case No. PUR-2021-00127

Dear Mr. Logan:

Please find enclosed for electronic filing in the above-referenced matters the Annual Report of Virginia Electric and Power Company (the "Company") on its Grid Transformation Plan ("GT Plan"), which includes an index of reporting requirements that notes in which schedule the required information can be found.

Please do not hesitate to call if you have any questions in regard to the enclosed.

Highest regards,

/s/ Jontille D. Ray

Jontille D. Ray

Enclosures

cc: Paul E. Pfeffer, Esq.
Lisa R. Crabtree, Esq.
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Service List from Case No. PUR-2019-00154
Service List from Case No. PUR-2021-00127

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Index of Reporting Requirements by Schedule

	Description	Citation(s)
Schedule 1	List of approved GT Plan projects and the associated cost caps by phase.	
Schedule 2	General reporting metrics as agreed upon by the Company and Staff	2019 Final Order at 25 (citing Baine Rebuttal Schedule 4) 2021 Final Order at 21 (citing Woomer Direct Schedule 2)
Schedule 3	Information on mainfeeder hardening (mainfeeders and miles hardened, cost per mile, performance metrics by project)	2019 Final Order at 25
Schedule 4	Realized benefits of mainfeeder hardening and the projected benefits	2019 Final Order at 25
Schedule 5	Information on how the grid technologies projects will support integrated planning	2021 Final Order at 21-22
Schedule 6	Information on intelligent grid devices and FLISR (planned and actual costs, performance metrics by project)	2021 Final Order at 19, 22
Schedule 7	Information on voltage island mitigation (measurable benefits)	2021 Final Order at 15, 22
Schedule 8	Information on DERMS (various uses, including visibility of DERS and ability to leverage smart inverter functionality)	2021 Final Order at 20, 22
Schedule 9	Information on voltage optimization enablement (projects by type, planned and actual average cost per upgrade project)	2021 Final Order at 21 n.99 (citing Volkmann Direct at 18-19)

Relevant Orders

Petition of Virginia Electric and Power Company, For approval of a plan for electric distribution grid transformation projects pursuant to § 56-585.1 A 6 of the Code of Virginia, and for approval of an addition to the terms and conditions applicable to electric service, Case No. PUR-2019-00154, Final Order (Mar. 26, 2020).

Petition of Virginia Electric and Power Company, For approval of a plan for electric distribution grid transformation projects pursuant to § 56-585.1 A 6 of the Code of Virginia, Case No. PUR-2021-00127, Final Order (Jan. 7, 2022).

Schedule 1

Total GT Plan Capital	Phase I Cost Cap	Phase II Cost Cap
Advanced Metering Infrastructure (AMI)	0	186,087,775
Customer Information Platform / Meter Data Management (CIP/MDM)	83,682,659	134,965,805
Mainfeeder Hardening	47,891,469	0
Targeted Corridor Improvement	0	0
Voltage Island Mitigation	6,694,356	11,409,250
Intelligent Grid Devices	0	29,099,153
Fault Location, Isolation, Service Restoration Software (FLISR)	0	10,013,077
Distributed Energy Resources Management System (DERMS)	0	5,187,043
Hosting Capacity ²	314,529	0
Enterprise Asset Management System (EAMS)	0	18,767,131
Voltage Optimization Enablement	0	97,146,210
Substation Technology Deployment	0	32,140,253
Locks Campus Microgrid ¹	12,345,356	0
Physical Security ²	9,342,877	37,309,573
Telecommunications	53,026,891	97,867,202
Cyber Security	1,145,585	6,481,508
Stakeholder Engagement & Customer Education	0	0
Smart Charging Infrastructure Pilot	3,849,700	0
Total GT Plan Capital	218,293,422	666,473,981

Total GT Plan O&M	Phase I Cost Cap	Phase II Cost Cap
Advanced Metering Infrastructure (AMI)	0	12,199,836
Customer Information Platform / Meter Data Management (CIP/MDM)	27,043,791	68,876,269
Mainfeeder Hardening	0	0
Targeted Corridor Improvement ²	12,819,371	16,271,982
Voltage Island Mitigation	0	0
Intelligent Grid Devices	0	21,900
Fault Location, Isolation, Service Restoration Software (FLISR)	0	874,796
Distributed Energy Resources Management System (DERMS)	0	0
Hosting Capacity	52,288	0
Enterprise Asset Management System (EAMS)	0	1,248,611
Voltage Optimization Enablement	0	0
Substation Technology Deployment	0	0
Locks Campus Microgrid	79,478	0
Physical Security ¹	0	240,138
Telecommunications	1,616,791	4,089,921
Cyber Security	360,494	2,790,376
Stakeholder Engagement & Customer Education	2,700,610	3,033,271
Smart Charging Infrastructure Pilot	16,216,230	0
Total GT Plan O&M	60,889,052	109,647,100

¹ Represents revised Phase I cost caps approved in Case No. PUR-2021-00083

² Represents revised Phase I cost caps requested for approval in Case No. PUR-2022-00140

Category	Metrics	2015 - 2019 Avg.	2020	2021	2022
Reduced outage events ¹	SAIDI	134.94	141.02	133.88	136.05
	SAIFI	1.22	1.26	1.16	1.20
	# of outages avoided		1,010	2,729	(1,036)
	# of minutes avoided		(6.07)	1.07	(1.10)
	# of unplanned outage events	42,043	41,378	38,909	42,078
Faster restoration time ¹	# customer minutes of interruption	332,004,262	357,594,037	343,683,784	352,265,206
Improved grid visibility & support DER integration	# of IGDs deployed				83
	% of distribution system with enhanced telemetry				1%
	# of DERs located on circuits with IGD				4
	# of DERs integrated into DERMS				
	MW of DERs integrated into DERMS				
	# of front-of-the-meter DERs integrated into DERMS				
	MW of front-of-the-meter DERs integrated into DERMS				
	# of behind-the-meter DERs integrated into DERMS				
	MW of behind-the-meter DERs integrated into DERMS				
	# of customer programs integrated into DERMS				
	# of distinct vendor assets integrated into DERMS				
	# of key facilities the Company has deployed Tier 2 telecommunications solutions				
Telecommunications	Miles of fiber deployed ³		57	64	21
	# of net metering interconnection requests completed	1,236	4,818	7,482	11,208
	# of small generator interconnection agreements completed	15	15	28	49
	Public fast charging rebates		0	13	6
	Public fast charging funds deployed		0	\$550,635	\$199,468
	Multi-family charging rebates		0	14	6
	Multi-family charging funds deployed		0	\$133,799	\$69,530
	Workplace charging rebates		0	31	40
	Workplace charging funds deployed		0	\$281,856	\$320,609
	Transit charging rebates		0	0	0
	Transit charging funds deployed		0	0	0
	# of direct communications		1,272,283	24,536	1,789,117
# of digital impressions		171,168	1,040,225	200,028	
# of public meetings and events		28	42	34	
Customer education ²	# of remote service orders executed	178,886	195,838	318,621	750,896
	% of total service orders executed remotely	19.7%	29.1%	47.6%	75.1%
	# of same-day service orders completed		12,581	20,728	152,307
	Annual energy diversion recovery (\$)	1,921	2,513	3,658	44,471
	Annual energy diversion expenses (\$)	1,218,614	945,206	959,058	1,166,296
Reduced service order completion times	# of AMI identified energy diversion customers / incidents	11	14	26	409
	# of escalated bill-related customer complaints		273	312	825
	# of monthly bills estimated	537	156,180	200,383	219,307
	# of voltage violations managed based upon AMI detection	7	4	4	4,994
	# of outages detected remotely by AMI	509,415	670,657	1,011,487	2,212,568
Better management of energy diversion	# of truck rolls reduced (mainfeeder hardening) ³		9	15	26
	# of truck rolls reduced (targeted corridor improvement) ⁴			269	(214)
	Restoration overtime hours ³	175,784	195,224	182,631	189,600
	Average overtime per linemen	425	405	363	389
	# reduced found-ons		3,413	6,410	15,029
Improved billing & meter read rate accuracy	Tree trimming expenses	14,759,255	14,304,924	21,460,892	23,753,917
	# of storm truck rolls reduced (mainfeeder hardening) ³		(2)	2	(7)
	# of storm truck rolls reduced (targeted corridor improvement) ⁴			111	(390)
	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
AMI detection of issues	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
Field labor savings	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
Reduced storm damage restoration costs	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
	# of storm truck rolls reduced (targeted corridor improvement) ⁴				
	# of storm truck rolls reduced (targeted corridor improvement) ⁴				

¹ Excluding major events

² Totals exclude AMI-specific communications

³ For completed circuit(s) only, 3-phase device events only, excluding major events

⁴ For ash tree mitigation completed circuit(s) only, excluding major events

⁵ Mileage reflects only projects that are accounting closed

Category	Metrics	Status
	Outage Center app	Deployed November 2019
	Notification Preferences ⁶	Initial Deployment April 2020
	What-if Analysis / Rate Comparison by 2023	
	e-Bill upgrade to include graphical usage information by 2023	
	Notification & Alert Options through preferred channel by 2023	
	Account specific details on charges available to customers within online portal by 2023	
	Bill re-design by 2024	
	Average monthly number of bill complaints	
	Average monthly number of bills requiring manual intervention	
	Dominion Energy Mobile Application	Deployed September 2020
	List of digital communication channels introduced	
	# of customers enrolled in each channel	
	# of times online information is accessed annually for each communication channel	
	# of customers enrolled in opt-in time-varying rate program	10,000
	# of cyber or physical security events associated with GT Plan that require further investigation or analysis. (This information to be reported separately and confidentially)	This information is confidential. The Company has committed to communicate applicable information, in person, at Staff's request.

⁶ Additional functionality will be available once CIP is completed

Feeder	Mainfeeders hardened	Miles hardened	Date Complete	Cost per mile
04331	1	1.9	10/1/2020	\$643,828
01450	1	1.0	3/30/2021	\$559,346
25487	1	5.0	11/1/2021	\$711,192
04308	1	4.0	11/25/2021	\$897,804
04334	1	3.9	12/1/2021	\$382,884
04395	1	3.6	12/2/2021	\$586,221
06460	1	4.0	12/2/2021	\$571,348
01300	1	14.7	1/14/2022	\$652,524
65911	1	14.0	3/8/2022	\$472,573
23325	1	5.0	4/18/2022	\$859,668
26340	1	3.1	4/18/2022	\$1,656,697

Feeder	Total Outage Events 3 Phase Device events Ex ME				Max Outage Event Duration (Min) - Device events Ex ME				SAUDI EOME ²				SAIFI EOME ³				CAIDI EOME ³			
	Qualifying Baseline	2020	2021	2022	Qualifying Baseline	2020	2021	2022	Qualifying Baseline	2020	2021	2022	Qualifying Baseline	2020	2021	2022	Qualifying Baseline	2020	2021	2022
04331	11	4	7	14	906	737	766	1,092	559	227	289	764	3.3	1.9	2	6	110	118.4	131	137
01450	8		7	4	2,520		872	5,379	333		181	597	3.4		3	2	98		55	256
25487	6		9	6	1,197		1,142	987	287		381	237	1.8		4	2	160		93	100
04308	13		13	8	1,536		1,256	1,206	313		274	244	2.4		3	1	129		81	229
04334	10		7	9	1,010		547	1,139	235		146	202	2.5		2	2	96		94	85
04395	8		5	1	1,567		230	657	333		66	121	2.4		1	1	136		127	205
06466	13		14	7	2,865 ¹		1,498	1,076	418		373	184	3.4		4	1	133		84	182
01308	11			12	2,342		1,537	4,444	838			1,450	5.1			6	163			256
65911	4			8	1,901			823	305			765	2.1			1	143			193
23325	18			10	1,235			394	315			121	2.4			1	133			99
26340	13			6	441 ¹			371	135			64	1.2			2	116			34

¹ Data corrected

² Customer counts corrected from previous filings

³ Data that has been shaded grey reflect circuits that have not been completed

Realized Benefits	2020 ¹	2021 ¹	2022
Critical Services Improved/Targeted	4	40	50
Total Customers Improved/Targeted	801	18,398	26,783
Total Miles Hardened (miles)	2	23	60
Total Customer Interruptions Eliminated	7,901	4,149	19,892
Total Customer Minutes of Interruption Eliminated	855,120	2,034,629	385,514
Average Outage Minutes Before ²	359	323	318
Average Outage Minutes Eliminated	132	86	4
Average Outage Minutes After	227	237	314
Average Interruptions Before ²	3.3	2.8	2.6
Average Interruptions Eliminated	1.3	0.0	0.7
Average Interruptions After	1.9	2.8	2.0

¹ Updated to remove partially complete circuits

² Customer counts corrected from previous filings

Projected Benefits (Wright Schedule 7 - PUR-2019-00154)	3-Year Total	10-Year Total
Critical Services Improved	61	428
Total Customers Improved	24,038	491,038
Total Miles Hardened (miles)	63	1,028
Total Customer Interruptions Eliminated	22,240	303,351
Total Customer Minutes of Interruption Eliminated	2,293,393	30,343,840
Average Outage Minutes Before	348	236
Average Outage Minutes Eliminated	94	61
Average Outage Minutes After	254	175
Average Interruptions Before	2.9	2.0
Average Interruptions Eliminated	1.0	0.6
Average Interruptions After	1.9	1.4

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How Grid Technologies Projects Support Integrated Planning

Requirement: "Provide information on how each Grid Technologies project will support integrated planning at the distribution system level and how such information will be used to inform the Company's next Integrated Resource Plan." 2021 Final Order at 21-22.

In September 2019, Dominion Energy Virginia presented the Commission with initial details on the need to transform not only the distribution grid, but also to transform how distribution grid planning occurs. Specifically, the Company presented a white paper that provided a conceptual first look at its transition toward integrated distribution planning ("IDP").¹ In June 2021, the Company provided an update that highlighted notable successes in the evolution toward IDP and noted that the Company had begun to work to create a roadmap for IDP that will add tangible goals and timeframes to IDP maturity, with the intention of presenting the roadmap in 2023.² In March 2023, the Company presented that roadmap (the "2023 IDP Roadmap") as part of its request for a prudence determination for Phase III of the Grid Transformation Plan.³

For this annual report the Company focuses on the support to IDP provided by the grid technologies projects approved by the Commission in Phase II of the Grid Transformation Plan.

How Grid Technologies Projects Support IDP

The Company defines IDP as a consolidated process to address the capacity, performance, reliability, resilience, and distributed energy resource ("DER") integration needs of the distribution grid. See the 2023 IDP Roadmap for details on the transition to IDP.

The grid technologies projects approved by the Commission as part of Phase II of the GT Plan support IDP in many ways. For example, intelligent grid devices and substation technology deployment will provide the additional granularity of data along distribution feeders and at more frequent intervals throughout the year that is necessary to enable precise modeling and engineering analyses. These projects also provide situational awareness and, paired with advanced systems such as the distributed energy management system ("DERMS") and fault, location, isolation and service restoration ("FLISR") software, provide the necessary control capabilities to ensure safe and reliable grid operation with the growing adoption of DER resulting in bi-directional power flows and dynamic voltages. These same equipment and systems also ensure grid availability to move energy along the distribution grid for DER serving as a non-traditional grid solution. Similarly, the enterprise asset management system ("EAMS") will provide more insight of asset conditions and performance, improving grid reliability, resiliency, and availability for customer loads and DER by driving improved decisions related to equipment specifications, maintenance, and replacements. The Company's hosting capacity analysis supports customers assessing costs and benefits of connecting DER on the grid by indicating how much DER can be connected at a specific location without causing adverse impacts or requiring grid upgrades.

¹ Case No. PUR-2019-00154, 2019 GT Plan Document at 14-15.
² Case No. PUR-2021-00127, 2021 GT Plan Document at 12-13.
³ Case No. PUR-2023-00051, 2023 GT Plan Document at 11-12, Appendix C.

Schedule 5
Page 2 of 2

The list below provides a short synopsis on each grid technologies project:

- Intelligent Grid Devices. Intelligent grid devices provide granular data along the feeder that is necessary for more precise modeling and analysis of load flows and DER outputs. Intelligent grid devices, in conjunction with FLISR, also provide situational awareness and control capabilities to improve grid reliability, resiliency, and availability.
- FLISR. FLISR, in conjunction with intelligent grid devices, provides situational awareness and control capabilities to improve grid reliability and resiliency and support availability of DER as a grid resource while enabling customers to maximize the benefits of their DERs.
- DERMS. DERMS provides situational awareness and control capabilities for different types of DER to optimize grid operation and maximize customer benefits as these non-traditional solutions are integrated.
- Hosting Capacity Analysis. Hosting capacity analysis supports the integration of DER by indicating the available capacity for DER to interconnect to the distribution grid with minimal upgrades needed to avoid adverse grid impacts.
- EAMS. EAMS provides more granular insight of asset conditions and performance, driving improved decision making related to equipment specifications, maintenance, and replacement that improves grid reliability and resiliency and supports availability of DER as a grid resource while enabling customers to maximize the benefits of their DERs.
- Voltage Optimization Enablement. Voltage optimization enablement projects, in conjunction with an advanced voltage control system, enable implementation of a demand-side management program to lower energy consumption and demand, directly reducing resource needs with no discernible impact to most customers. This capability also has the potential to serve as a non-traditional solution for grid constraints.
- Substation Technology Deployment. Similar to intelligent grid devices, substation technology deployment provides granular data that is necessary for more precise modeling of load flows and DER outputs. Substation technology deployment also provides situational awareness and control capabilities to support grid reliability, resiliency, and availability.
- Locks Campus Microgrid. The Locks Campus Microgrid demonstration project will provide valuable real-world data to understand how microgrids and DER interact with the distribution grid, what capabilities, monitoring and controls are necessary for safe and reliable operation, and how they can be leveraged for grid resiliency and potentially as non-traditional solutions.

How Information from Grid Technologies Projects Will Inform the 2023 Integrated Resource Plan

The Company's transition to IDP will take time, as will the deployment of the Phase II grid technologies projects approved by the Commission and other key processes and capabilities that will be needed for IDP. Integrated distribution planning will inform and support system-level resource planning in time as key capabilities provided by the grid technologies projects are achieved. While the grid technologies projects will provide immediate benefits in terms of improved reliability, resilience, and availability for customers and connected DERs, the Company will not be in a place to use information from grid technologies projects to inform its 2023 Integrated Resource Plan. Nevertheless, the 2023 IDP Roadmap presents tangible goals for the components of the IDP on which the Company plans to focus in the near term.

Intelligent Grid Devices and FLISR

Requirement: Include the Company's planned and actual costs and reliability improvements for the feeder segments on which intelligent grid devices and FLISR are deployed. 2021 Final Order at 19, 22.

The Company has provided planned and actual costs for the feeder segments on which intelligent grid devices have been deployed. The Company will provide reliability improvement data once FLISR has been deployed.

01202022

Feeder	Completion Date	Planned Cost	Actual Cost
01451	5/6/2022	\$86,125	\$95,618
01480	9/7/2022	\$62,938	\$69,021
02805	4/20/2022	\$203,203	\$237,603
04303	10/24/2022	\$1,113,460	\$1,070,575
04334	2/24/2022	\$69,894	\$51,458
05330	10/10/2022	\$199,688	\$323,399
05351	9/20/2022	\$150,096	\$137,420
22371	5/3/2022	\$74,694	\$61,876
23462	3/21/2022	\$111,428	\$97,990
26470	2/21/2022	\$101,353	\$114,939
28428	3/15/2022	\$59,719	\$68,275
28466	3/11/2022	\$84,105	\$61,930
41436	4/21/2022	\$80,004	\$81,770
41914	8/24/2022	\$336,394	\$424,256
42340	10/1/2022	\$984,918	\$928,630
44710	7/21/2022	\$222,510	\$401,196
46772	3/24/2023	\$116,948	\$142,554
46825	3/7/2022	\$79,279	\$140,271
47698	11/2/2022	\$170,193	\$263,538
48330	7/28/2022	\$222,410	\$321,247
48666	8/25/2022	\$342,860	\$414,407
48718	5/27/2022	\$75,163	\$71,501
48719	3/16/2022	\$123,863	\$136,486

Voltage Island Mitigation

Requirement: Track and report the measurable benefits of the voltage island mitigation projects. 2021 Final Order at 15,22.

For completed voltage island mitigation projects, any long-duration outages that are mitigated will be detailed in future annual reports, as they occur. No such events have occurred to-date.

20230407

Schedule 8

DERMS

Requirement: Report on the various uses of DERMS, including visibility of DERs across its system and the Company's ability to leverage DER smart inverter functionalities to provide grid support. 2021 Final Order at 20, 22.

This information will be provided in future annual reports once DERMS has been installed and is in-use; initial installation of DERMS is currently expected in 2024.

Schedule 9

VO Enablement Upgrade Project Type	Planned Number of Defects	Actual Number of Defects	Planned Avg Cost/Defect	Actual Avg Cost/Defect
Txfmr/Service	527	145	\$7,746	\$6,300

Represents VO upgrade projects completed as of December 31, 2022

CERTIFICATE OF SERVICE

I hereby certify that on this 31st day of March 2023, a true and accurate copy of the foregoing filed in Case No. PUR-2019-00154 was hand delivered, electronically mailed, and/or mailed first class postage pre-paid to the following:

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230340710

CERTIFICATE OF SERVICE

I hereby certify that on this 31st day of March 2023, a true and accurate copy of the foregoing filed in Case No. PUR-2021-00127 was hand delivered, electronically mailed, and/or mailed first class postage pre-paid to the following:

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