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June 10, 2024

Ms. Brinda Westbrook-Sedgwick
Commission Secretary
Public Service Commission
of the District of Columbia
1325 G Street, N.W. Suite 800
Washington, DC 20005

Re: Formal Case No. PEPPIWGR-2024

Dear Ms. Westbrook-Sedgwick:

Pursuant to Order No. 15568, issued October 7, 2009, Potomac Electric Power Company, on behalf of itself, the Office of the People's Counsel, and the Commission's Staff, collectively known as the Productivity Improvement Working Group ("PIWG"), met on May 16, 2024. Enclosed are the Minutes, attendance sheet and presentation for the May 16, 2024 PIWG Meeting.

Please feel free to contact me if you have any questions regarding this matter.

Sincerely,

/s/ Dennis P. Jamouneau

Dennis P. Jamouneau

Enclosures

cc: All Parties of Record



Productivity Improvement Working Group (PIWG) Minutes for May 16, 2024, In Person/Virtual Meeting

Meeting Commencement

The PIWG meeting convened at 2:00 pm on May 16, 2024, in room 9000 at Edison Place Washington DC and via Microsoft Teams.

Attendees

The following people were present:

- Commission Staff ('Commission' or 'Staff'): Poorani Ramachandran, Bryan Henning, Roger Fujihara, Maria Brown, Stephan Jaksch, Angela Parsons, Thomas Olmstead, Steve Sunderhauf.
- Office of the People's Counsel (or 'OPC'): Kinteshia Scott, Linda Gray, Jason Cumberbatch, Knia Tanner.
- Pepco: John Budd, Tonasha Flusche, Kevin Thompson, Shiva Hemmatian, William Davis, Stephen Park, Anthony Pacinelli, Taiwo Alo, Vincent Zacccone, Saiful Latif, Joann Thompson, Abdulrahman Kargbo, Evangelina Samuel, Kunle Adeyemo, Dennis Jamouneau, Daniel Alcazar Teixeira, Chris Sellers, Daniel Guy, Julianny Tate, and Pamela Tate.

Issues Discussed (See Attachment)

- Q1 2024 Manhole Inspection Summary
- Incident Reporting (Injuries)
- Annual Consolidated Report - FC 1119 Merger Commitments on reliability-related capital projects
- Distributed Energy Resource (DER) and Advance Data Management System Presentation (ADMS)

Adjournment

The meeting adjourned at 3:00p.m.

Synopsis of Issues Discussed

Pepco started the meeting with a roll call of attendees. Staff and OPC joined virtually; while Pepco joined from room 9000 at Edison Place, Washington DC.

Pepco presented the Q1 2024 manhole inspection summary for the District of Columbia. Staff asked if Pepco could provide a high-level update on both open orders and inspections. Pepco responded that the 1,926 inspections are slightly below the target, and could be weather-related, and that the first quarter is sometimes a bit lower than expected.

There were no incidents or injuries to report for the 1st quarter of 2024.

Productivity Improvement Working Group (PIWG)

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As part of the Exelon merger commitment, (FC 1119), Pepco gave an update on its 2023 actual spend and 2024-2027 projected budget on reliability-related capital projects and reliability performance, as filed in the 2024 Annual Consolidated Report.

Staff asked if the reliability budget presented were in alignment with the filed MYP on April 13, 2023. Pepco responded that the budgets were generally in alignment with the MYP application.

Staff questioned the budget variance in the System Performance – Distribution category. Pepco responded that the variance could be due to timing of work scheduled (i.e., permitting, resources). Staff asked what defines a ‘major storm’ and whether storms are budgeted and if so, how? Pepco responded that ‘major storms’ are not budgeted, and storms are those as defined by the EQSS, Chapter 36 of the Commission’s regulations. Pepco also indicated that minor storms and wind events are captured under this category, as well as emergent-type work, such as underground cable failures.

The Company provided an update of its reliability metrics, (i.e., SAIFI and SAIDI) performance:

- SAIFI through 03/31/24 of 0.33 is favorable to YE target of 0.55
- SAIDI through 03/31/24 of 38 is favorable to YE target of 60

During the portion of this presentation, Pepco asked if the EQSS Rulemaking will be updated for 2025. Staff had no updates as to when the EQSS Rulemaking will be updated. Staff also asked whether Pepco projects its reliability metrics. Pepco responded that it does not project its reliability metrics but rather targets meeting or exceeding the jurisdictional standards.

As requested in the March 16, 2024 PIWG meeting, the final topic presented was a presentation on Capacity Expansion/ DERs/ADMS presented by Pepco’s Distribution Planning Smart Grid & Innovation team.

Pepco opened by providing a high-level overview of developing the peak load forecast for the distribution system, which consists of forecasting out what the loading is going to be on different components of the electrical system, such as substations, transformers, and feeders. Pepco next indicated that after a forecast has been developed, that the distribution planning analyzes the distribution system and develops recommendations based on that analysis.

OPC inquired on how many applications are approved to operate. Pepco indicated to OPC that Pepco makes filings in Formal Case No. 1050 with this information.

Staff asked if Pepco was looking into PJM load forecasts and how does Pepco integrate those projections. Pepco indicated that generally when we talk about distribution planning forecasts, or comparing something like RTO’s or an ISO, that the Company uses a ‘bottom-up’ approach whereas PJM is looking at it in reverse, and Pepco looks at the individual components at the feeder and substation levels.

Disclaimer – The information contained herein does not represent quoted statements by any person or group. Rather, the information presented is based on what is captured during the note taking process during the meetings.

Productivity Improvement Working Group (PIWG)

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Staff also asked that knowing that DER might not necessarily provide as much support during the winter unlike the summer, how does this impact load forecasting for the winter peaking situation and how does Pepco plan for the winter peaking situations? The Company does plan for both summer and winter peaks and has higher capacities during the winter for substations and feeders because of the thermal capabilities for the wire.

During this portion of the presentation, Staff asked how these different technologies are integrated (i.e., a way to ‘talk to each other’) and how does this address hosting capacity and battery storage. In addressing hosting capacity, the data management system of the ADMS helps with dynamic analysis to perform real time power flow analysis to determine the impacts of DERs on the grid, and helps optimize the use of DERs to ensure grid stability and efficiency. The integration of these technologies in an ADMS system creates a holistic system that enhances the efficiency, reliability, and resilience of the distribution system. By effectively managing DER hosting capacity and battery storage, ADMS supports the transition to more DER integration.

ADMS is also the platform that supports the full suite of distribution, control management and optimization capabilities. ADMS combines all the capabilities and functionality present in today's Outage Management System (OMS) and distribution into a single platform. ADMS also includes advanced applications like load shed, Fault Locations, Isolation, and Service Restoration (FLISR) recommended switching and microgrid monitoring and control, adding efficiency and more operational insights for the end users of the tools.

May 16, 2024

Productivity Improvement Working Group (PIWG) – First Quarter 2024

Agenda - PIWG - First Quarter 2024

1. First Quarter (Q1) 2024 Manhole Inspections
2. Review Reliability as filed in ACR
 - ✓ Reliability performance
 - ✓ Actual spend and projected budget for reliability-related capital as filed in the ACR
3. Distributed Energy Resource (DER)/Advanced Distribution Management System (ADMS) Presentation

District of Columbia Manholes

DC Manholes

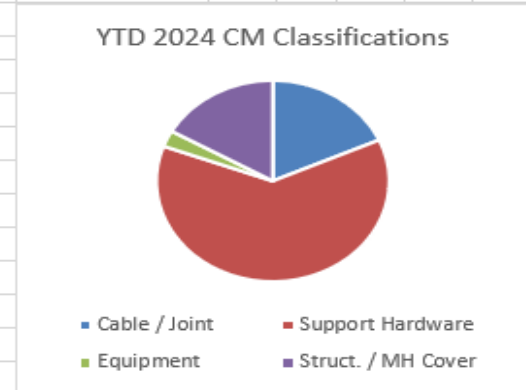
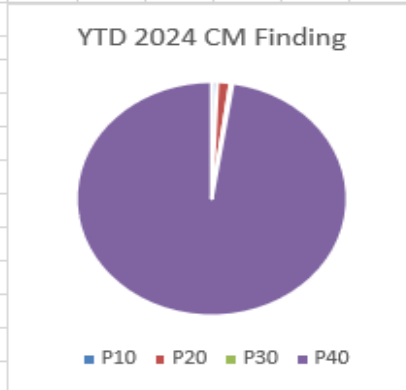
QUARTERLY UPDATES – 1st QUARTER 2024

The First Quarter 2024 manhole events will be presented at the next PIWG meeting, as the data is currently being vetted.

Pepco Electric Power Company Q1 2024 Manhole Inspection Summary

Manhole Contents						CM Findings						CM Detail Findings					
	Q1	Q2	Q3	Q4	YTD		Q1	Q2	Q3	Q4	YTD		Q1	Q2	Q3	Q4	YTD
Primary	364				364	P10	5				5	Cable / Joint	140				140
Secondary	628				628	P20	12				12	Support Hardware	476				476
Primary & Secondary	433				433	P30	2				2	Equipment	20				20
Streetlight Only	251				251	P40	745				745	Struct. / MH Cover	128				128
No Cable Present	63				63	Total	764	0	0	0	764	Total	764	0	0	0	764
Out Of Scope	187				187												
Total	1926	0	0	0	1926												

Manhole Cover Information					
	Q1	Q2	Q3	Q4	YE
Single Action Solid	1371				1371
Single Action Slotted	54				54
Double Action Solid	98				98
Double Action Slotted	4				4
Grating / Plate	208				208
Total	1735	0	0	0	1735



Q1 2024 Progress Notes: Contractor fully staffed with internal resources and subcontractors.

Open CM Orders 3/31/2024	
P10	150
P20	231
P30	297
P40	840

Status of Overdue CM Orders 3/31/2024				
Created Yr.	P10	P20	P30	P40
2020	87	126	50	2
2021	0	0	0	11
2022	17	0	0	243
2023	4	0	0	22
2024	0	0	0	0

Incident Reporting (Injuries)

There were 0 incident (injuries) to report for Q1 2024.



ACR FC 1119 Reliability Compliance

Reliability Performance

ACR FC 1119 - Compliance Reliability

On an annual basis and as part of a PIWG meeting, Pepco will specifically review the reliability performance, actual spend and projected budget for reliability-related capital as filed in the ACR.

\$'s in '000s

Executive Category	2023 Budget	2023 Actuals	Variance
System Performance - Distribution	\$ 94,508	\$ 82,597	\$ (11,911)
System Performance - Substation	\$ 46,145	\$ 47,847	\$ 1,703
System Performance - Automation	\$ 15,000	\$ 9,478	\$ (5,522)
Corrective Maintenance - Storms	\$ -	\$ 2,257	\$ 2,257
Corrective Maintenance - Substation	\$ 1,537	\$ 2,927	\$ 1,390
Corrective Maintenance - Distribution	\$ 35,401	\$ 45,529	\$ 10,128
Grand Total	\$ 192,590	\$ 190,635	\$ (1,955)

\$'s in '000s

Executive Category	2024 Budget	2025 Budget	2026 Budget	2027 Budget
System Performance - Distribution	\$ 125,302	\$ 115,347	\$ 152,887	\$ 151,991
System Performance - Substation	\$ 63,626	\$ 84,989	\$ 87,995	\$ 96,707
System Performance - Automation	\$ 13,977	\$ 14,323	\$ 13,294	\$ 13,434
Corrective Maintenance - Substation	\$ 2,215	\$ 2,176	\$ 1,644	\$ 1,644
Corrective Maintenance - Distribution	\$ 36,354	\$ 38,558	\$ 39,785	\$ 40,573
Grand Total	\$ 241,474	\$ 255,394	\$ 295,606	\$ 304,348

ACR FC 1119 - Compliance Reliability

On an annual basis and as part of a PIWG meeting, Pepco will specifically review the reliability performance, actual spend and projected budget for reliability-related capital as filed in the ACR.

Table 24: District of Columbia System Indices 2019-2023⁴⁶

District of Columbia System Indices 2019-2023					
MSO Criteria (MED Exclusive - IEEE 1366-2012 Std, District of Columbia System Wide Based)					
SAIFI	2019	2020	2021	2022	2023
Sustained Outages	0.59	0.40	0.45	0.30	0.37
Sustained Less Major Storms	0.59	0.40	0.45	0.30	0.33
SAIDI (HOURS)	2019	2020	2021	2022	2023
Sustained Outages	1.29	0.73	0.86	0.56	1.20
Sustained Less Major Storms	1.29	0.73	0.86	0.56	0.58
CAIDI (HOURS)	2019	2020	2021	2022	2023
Sustained Outages	2.20	1.81	1.94	1.86	3.23
Sustained Less Major Storms	2.20	1.81	1.94	1.86	1.77

DC TTM SAIFI through 03/31/24 of 0.33 is favorable to YE target of 0.55
 DC TTM SAIDI through 03/31/24 of 38 is favorable to YE target of 60

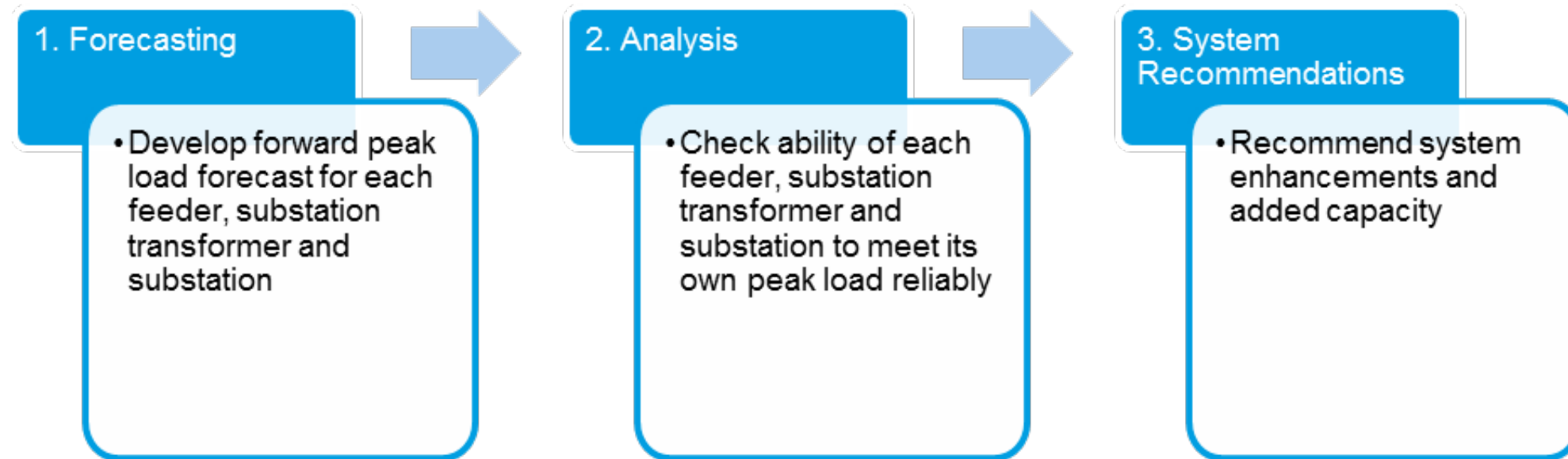
Note: 2024 values are based on rolling 12-month period from 04/01/2023 thru 03/31/2024

Capacity Expansion/DERs/ADMS

Distribution Planning Smart Grid & Innovation

General Planning Process for Feeders, Substation Transformers, and Substations

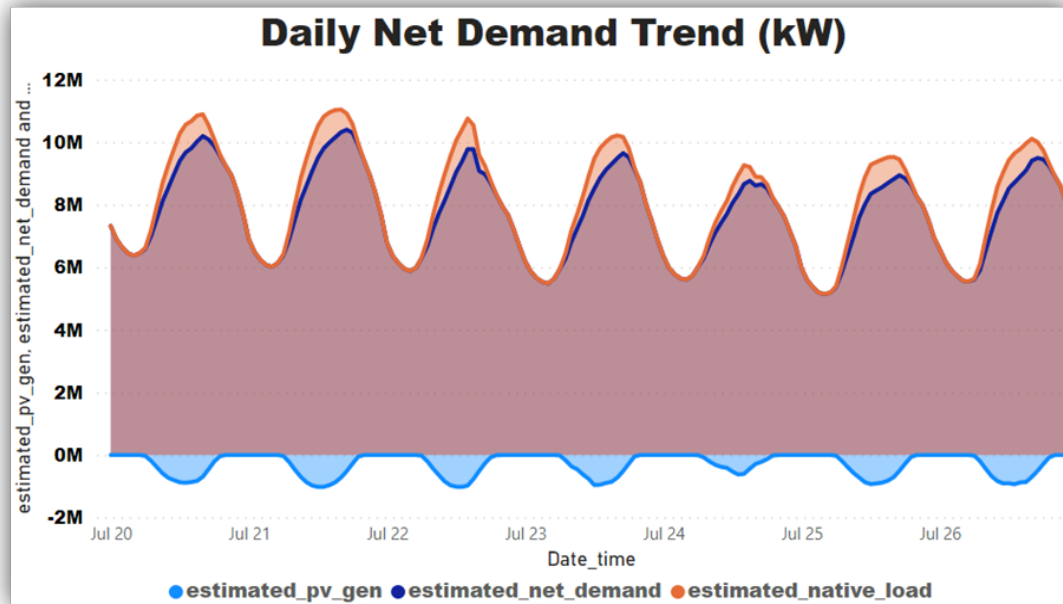
The development of the peak load forecast is the first step in Pepco's distribution system planning process



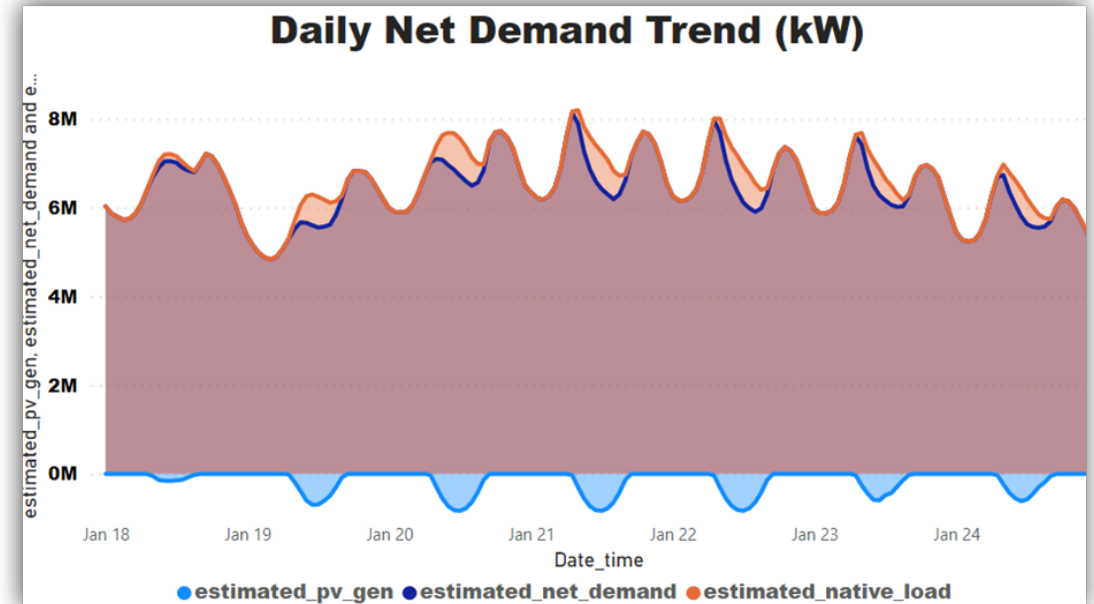
Distributed Energy Resources & Peak Load Forecasting

DERs may, depending on their operation, reduce peak net load. Whether or not these resources reduce peak net load depends on the coincidence of the resource with the time of peak gross load on a particular distribution system component as well as dispatchability

Summer Peak

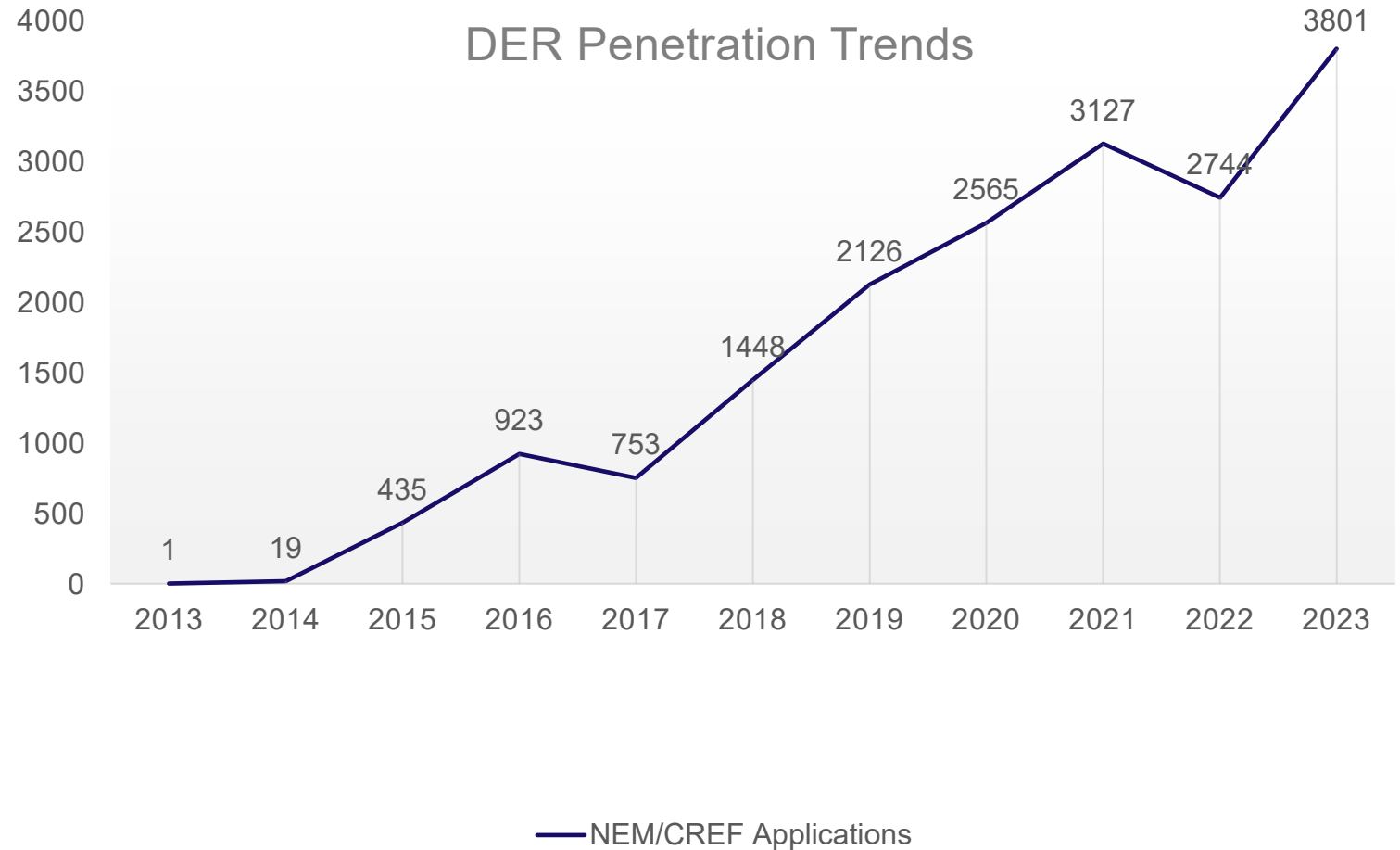


Winter Peak



District of Columbia Distributed Energy Resource Penetration

- Pepco forecasts load growth by identifying Prospective New Business (PNB) load and other inputs for short-term forecast (2 to 4 years) and utilizes these PNB's to develop trends to anticipate future planned development for the long-term forecast (5 to 10 years).
- Pepco also incorporates identified dispatchable DER's, into the short-term forecasts and utilizes these DER additions to develop trends of future installations in the long-term forecast, which may reduce the predicted net loading.



What is ADMS?

Advanced Distribution Management System (ADMS)

An Advanced Distribution Management System (ADMS) is the technology platform that supports the full suite of distribution control, management, and optimization capabilities.



R1, D-SCADA

Distribution - SCADA

- Remote Real-time Device Monitoring
- Device Control
- Distribution Power Flow

R2, OMS

Outage Management System Switch Order Management

- Outage Analysis & Prediction
- Trouble Call Mgmt.
- Outage Reporting & Notifications
- Electronic Switch Orders
- Switching Request Module
- Emergency Switching Record Mode

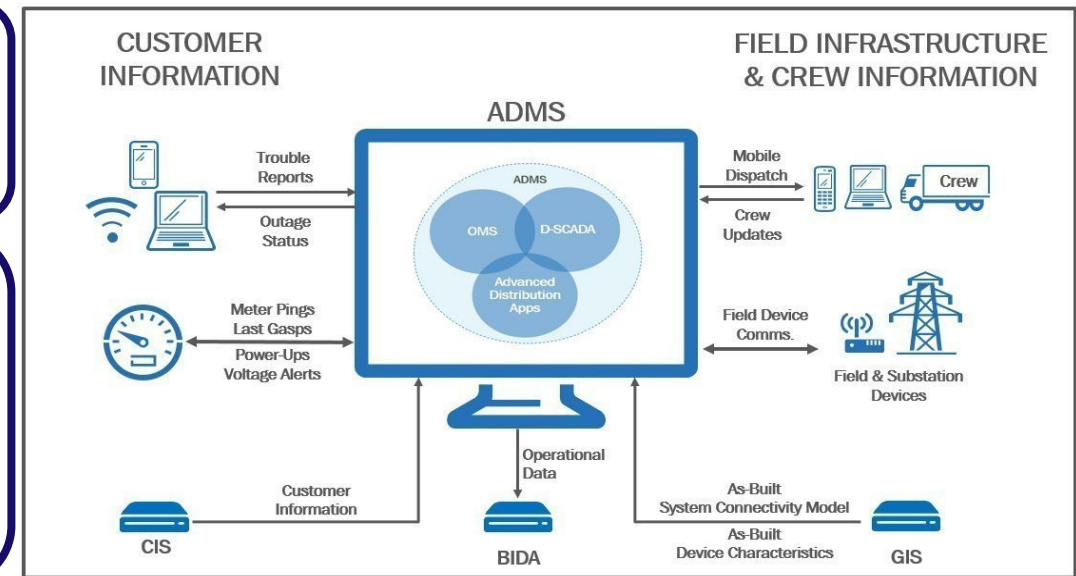
Distribution Management System

- Electric Connectivity Model
- DOTS – Operator Training System

R3, Advanced Distribution Apps

Advanced Distribution Applications

- Fault Locations, Isolation, and Service Restoration (FLISR)
- Distributed Energy Resources Mgmt. (DERMS)
- Conservation Voltage Reduction (CVR)
- Feeder Reconfiguration (FR)
- Fault Protection Analysis (FPA)
- Unbalanced Load Flow (UBLF)
- Short Circuit Analysis
- Volt/VAR Control (VVC)



Aligning all our stakeholders on the purpose and value that ADMS will enable has been a core focus.

Why ADMS?

The time is NOW to enable Exelon success for the future



Benefits

We must establish the necessary technology consistently across Exelon Utilities to capture the numerous benefits available and...

Why Now?

Replacing aging, outdated systems will remove system redundancy and improve operational efficiency thereby lowering the costs for the Customer and Exelon

Growing customer expectations and policy legislation for new services require advanced system capabilities to quickly pivot and meet rising demands

ADMS will enable Exelon to become more efficient in the field during large events, improving ETRs raising customer satisfaction

Utilizing automation and advanced capabilities, ADMS will enable Exelon to improve reliability and resiliency for our Customers

Give distribution operations state of the art, modernized tools and capabilities to improve the way they do their job today, resulting in fewer technical complexities and enhanced situational awareness to provide optional service

ADMS distribution operation capabilities will allow Exelon to quickly pivot and meet new business models and customer expectations (e.g., peer to peer energy sharing) when the time comes





Thank you

Contact: Pamela Tate, Sr. Regulatory Analyst
petate@pepco.com

CERTIFICATE OF SERVICE

I hereby certify that a copy of Potomac Electric Power Company's PIWG Minutes and presentation from the May 16, 2024 Meeting was served this 10th day of June 2024 on all parties in Formal Case No. PEPPIWGR-2024 by electronic mail.

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