PUBLIC SERVICE COMMISSION OF MARYLAND

TEN-YEAR PLAN (2025 – 2034) OF ELECTRIC COMPANIES IN MARYLAND

Prepared for the
Maryland Department of Natural Resources
In compliance with §7-201
Of the Public Utilities Article, *Annotated Code of Maryland*

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State of Maryland
Public Service Commission

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I. Introduction

This report constitutes the Maryland Public Service Commission's ("The Commission") *Ten-Year Plan (2025-2034) of Electric Companies in Maryland*. The Ten-Year Plan is submitted annually by the Commission to the Secretary of the Department of Natural Resources in compliance with §7-201 of the Public Utilities Article, *Annotated Code of Maryland*. It is a compilation of information pertaining to the long-range plans of Maryland's electric companies. The report also includes discussion of selected developments that may affect these long-range plans. The analysis contained in the Ten-Year Plan uses forecasts provided by Maryland utilities, PJM Interconnection, LLC ("PJM"), and other state and federal agencies.

The 2025–2034 Ten-Year Plan provides a forward-looking analysis of the composition of Maryland's electricity and generation profile and covers topics relevant to Maryland, including load growth forecasts, and the status of the State's generation resources and electric transmission system.

Changes to Maryland's supply and demand profile may necessitate additional infrastructure investment in the State's distribution network to ensure the safe, reliable, and economic supply of electricity to end users. The Commission exercises its statutory and regulatory power to ensure adequate, economical, and efficient delivery of utility services in the State. A record of these proceedings is published in the Commission's annual report.

II. Background

Maryland is geographically divided into 13 electric utility service territories.[1] The four largest, by number of Maryland customers, are served by investor-owned utilities ("IOUs"); four represent electric cooperatives (two of which serve mainly rural areas of Maryland); and five are served by electric municipal operations.[2] PJM sub-regions, known as zones, generally correspond with the IOU service territories. PJM zones for three of the four IOUs traverse state boundaries and extend into other jurisdictions.[3] Figure 1 provides a geographic picture of the Maryland utilities' service territories. Figure 2 depicts Maryland's PJM zones.

[1] The Maryland utilities: Baltimore Gas and Electric Company ("BGE"), Delmarva Power & Light Company ("DPL"), The Potomac Edison Company ("PE"), Potomac Electric Power Company ("Pepco"), Berlin Municipal Electric Plant ("Berlin"), Easton Utilities Commission ("Easton"), City of Hagerstown Light Department ("Hagerstown"), Thurmont Municipal Light Company ("Thurmont"), Williamsport Municipal Electric Light System ("Williamsport"), A&N Electric Cooperative ("A&N"), Choptank Electric Cooperative, Inc. ("Choptank"), Somerset Rural Electric Cooperative ("Somerset"), and Southern Maryland Electric Cooperative, Inc. ("SMECO").

[2] The Commission regulates all Maryland public service companies, as defined by §1-101(z) of the Public Utilities Article, *Annotated Code of Maryland*.

[3] Pepco, DPL, and PE are the three IOUs that extend into other jurisdictions. Pepco, DPL, and PE data are a subset of the PJM zonal data since PJM's zonal forecasts are not limited to Maryland. The BGE zone, alone, resides solely within the State of Maryland.

Figure 1: Maryland Utilities and their Service Territories in Maryland[4]

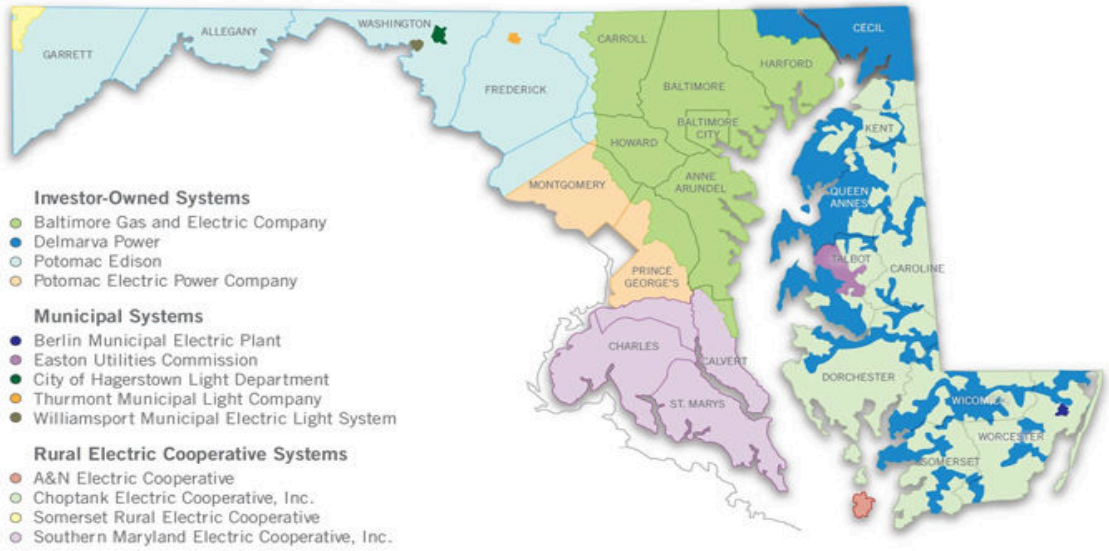
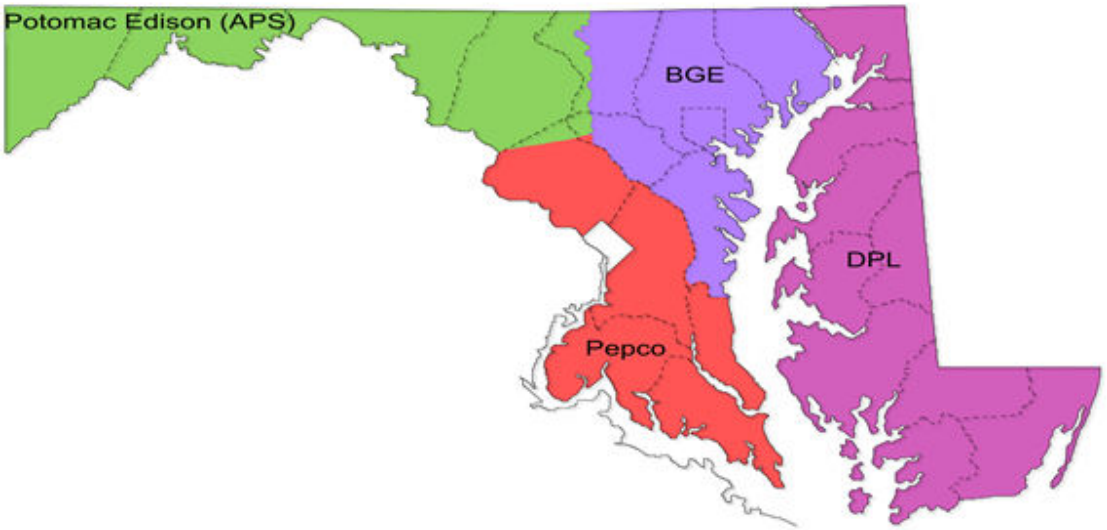


Figure 2: PJM Maryland Zones[5]



III. Maryland Load Growth Forecasts

Demand forecasts submitted by the Maryland utilities for the 2025-2034 planning period indicate projected annual growth in the number of customers, energy sales, and demand throughout the State at higher rates than in previous planning horizons, as shown in Table 1.

[4] *Cumulative Environmental Impact Report 18*, Maryland Department of Natural Resources, Figure 2-16, http://www.pprp.info/ceir18/HTML/Report-18-Chapter-2-4.html (last updated September 2018).
[5] *PJM Load Forecast Report,* PJM, (Jan. 2021), https://www.pjm.com/-/media/library/reports-notices/load-forecast/2021-load-report.ashx.

Table 1: Comparison of Compound Annual Growth Rate Projections – 2022, 2023, 2024 and 2025[6]

Forecasts	Ten Year Plan 2022-2031	Ten Year Plan 2023-2032	Ten Year Plan 2024-2033	Ten Year Plan 2025-2034
Customer Growth	0.7%	0.6%	0.6%	0.6%
Energy Sales	0.4%	0.3%	1.4%	2.3%
Summer Peak Demand	0.9%	0.7%	1.3%	1.6%
Winter Peak Demand	0.8%	0.4%	1.5%	2.0%

This trend of higher rates projected in the recent planning period than in previous planning horizons also appears in the results of forecasting conducted by PJM at the regional level in 2025 as compared to 2024, as discussed further below.[7]

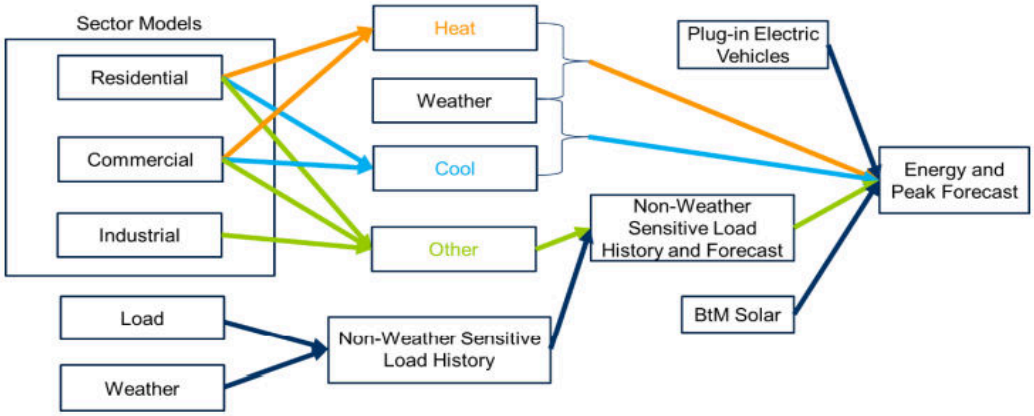
PJM's process for modeling the load forecast involves creating a series of models where daily load is regressed on calendar, weather, economic, and end-use variables. The economic, weather, and end-use variables are compiled into indices which are then treated as independent variables in the final regression.[8]

[6] *See* Appendix Tables 1(a)(i), 2(a)(i), 3(a)(i), 3(a)(iii). For values from previous Ten-Year Plans, refer to those respective reports of past years, available online.

[7] PJM's forecasting is derived in part from an independent economic forecast prepared by Moody's Analytics. This economic analysis includes projections related to the expected annual growth of the gross domestic product and can provide insight into possible trends for regional population growth and household disposable income which in turn can impact energy sector planning. PJM's forecast is also informed by load adjustments submitted by utilities throughout the region to account for variables such as projected discrete large load additions like data centers. Their modeling also accounts for weather variation, trends like electric vehicle adoption, behind-the-meter battery storage, and other factors. *See 2025 Long-Term Load Forecast Supplement,* PJM (Jan. 2025).

[8] *PJM Long-Term Load Forecast Supplement,* PJM, (Jan. 2025) https://www.pjm.com/-/media/DotCom/planning/res-adeq/load-forecast/2025-long-term-load-forecast-supplement.pdf.

Figure 3: Example of PJM Load Forecast Modeling



In the 2025 PJM load forecast, net energy load growth is projected to average 4.8% per year over the next 10-year period.[9] Meanwhile in 2024, this projection was 2.3% per year over the 10-year period following that forecast.[10] PJM indicates that, within the region, "the demand for electricity is growing at the fastest pace in years, primarily from the proliferation of data centers, electrification of buildings and vehicles, and manufacturing."[11]

A. Customer Growth Forecasts[12]

At the close of 2024, approximately 90 percent of utility customers in Maryland were categorized as residential ratepayers; however, residential sales represented only 45 percent of the year's total retail energy sales, as illustrated in Figure 4 below.[13] In contrast, commercial and industrial ("C&I") customers represented 10 percent of Maryland utility customers but accounted for over half of the total retail energy sales for the State.

[9] *PJM Load Forecast Report,* PJM, (Jan. 2025) at 6, https://www.pjm.com/-/media/DotCom/library/reports-notices/load-forecast/2025-load-report.ashx.
[10] *PJM Load Forecast* Report, PJM, (Jan. 2024) at 2, https://www.pjm.com/-/media/DotCom/library/reports-notices/load-forecast/2024-load-report.pdf.
[11] "2025 Long-Term Load Forecast Report Predicts Significant Increase in Electricity Demand," PJM Inside Lines, (Jan. 2025), https://insidelines.pjm.com/2025-long-term-load-forecast-report-predicts-significant-increase-in-electricity-demand/.
[12] *See* Appendix Tables 1(a)(i-vi) for a detailed breakdown of utility-by-utility customer growth forecasts.
[13] *See* Appendix Tables 1(b)(i) and 1(b)(ii).

Figure 4: Total Customers and Energy Sales (in GWh) by Customer Class for 2024

As reflected in Table 2 below, the statewide forecasted compound annual growth rate during the planning period is 0.58 percent for all customer classes which translates into a 5.32 percent increase in the total number of Maryland customers by the end of this 10-year planning period.

Table 2: Maryland Customer Forecast (All Customer Classes)[14]

Year	Berlin	BGE	DPL	Easton	Hagers-town	PE	Pepco	SMECO	Thur-mont	William-sport	Total
2025	2,754	1,351,672	222,003	11,103	17,780	293,356	612,618	180,737	2,903	1,023	**2,695,949**
2026	2,743	1,359,699	223,180	11,154	17,821	295,602	619,357	183,072	2,903	1,023	**2,716,553**
2027	2,757	1,367,521	224,160	11,204	17,862	297,903	624,750	185,361	2,903	1,023	**2,735,444**
2028	2,770	1,374,304	224,998	11,255	17,903	300,506	629,487	187,634	2,903	1,023	**2,752,782**
2029	2,784	1,380,857	225,787	11,307	17,944	303,352	633,975	189,834	2,903	1,023	**2,769,765**
2030	2,812	1,387,185	226,578	11,358	17,985	306,356	638,498	191,974	2,903	1,023	**2,786,672**
2031	2,840	1,383,328	227,372	11,410	18,026	309,349	643,055	194,050	2,903	1,023	**2,793,356**
2032	2,869	1,388,583	228,170	11,462	18,067	312,247	647,646	196,075	2,903	1,023	**2,809,043**
2033	2,897	1,393,759	228,970	11,514	18,109	315,063	652,272	198,035	2,903	1,023	**2,824,544**
2034	2,926	1,398,496	229,773	11,566	18,150	317,689	656,932	199,972	2,903	1,023	**2,839,430**
Change (2025-2034)	**172**	**46,823**	**7,770**	**463**	**370**	**24,333**	**44,314**	**19,235**	**0**	**0**	**143,481**
Percent Change (2025-2034)	**6.26%**	**3.46%**	**3.50%**	**4.17%**	**2.08%**	**8.29%**	**7.23%**	**10.64%**	**0.00%**	**0.00%**	**5.32%**
Compound Annual Growth Rate	**0.68%**	**0.38%**	**0.38%**	**0.45%**	**0.23%**	**0.89%**	**0.78%**	**1.13%**	**0.00%**	**0.00%**	**0.58%**

[14] *See* Appendix Table 1(a)(i). Note that Choptank, A&N and Somerset did not provide the requested applicable information in response to the Commission's 2025 data request for the Ten-Year Plan.

The customer forecasts provided by the utilities are comparable to the forecasts they provided for the 2024-2033 Ten-Year Plan. Overall, the increase in the number of customers across Maryland is primarily driven by growth in the residential class. Growth in the residential sector is projected to account for an additional 134,284 customers by 2034, or 94 percent of total new customers projected. The largest percentage increase in the number of customers is projected to occur in SMECO's service territory with an increase of 10.5 percent or 17,229 new residential customers. The largest absolute increase in the number of customers is projected to come from BGE's residential customer base with the addition of 44,143 residential customers forecasted during this planning period.[15] BGE's projected increase in its residential customer base accounts for 33 percent of the total number of new residential customers across all service territories during the 10-year planning period.[16] The increase in residential customers for BGE translates into a compound annual growth rate of 0.39 percent.[17]

Maryland utilities are projecting a slight reduction in the amount of growth of the collective Maryland customer base during this planning period relative to the last planning period. Table 3 below shows that the aggregated utilities' customer forecasts are 0.17 percent lower than the projections provided during the previous planning period. The most significant percentage change observable in the aggregated statewide data between the previous and current Ten-Year Plan forecasts is within the "Commercial" customer class[18] in large part due to a decreased projection by BGE.

Table 3: Projected Percentage Increase in the Number of Customers by Class, 2025 – 2034[19]

	All Utilities		
Class	**2024 to 2033**	**2025 to 2034**	**Difference**
Residential	5.69%	5.54%	-0.15%
Commercial	3.48%	3.10%	-0.39%
Industrial	9.47%	9.18%	-0.29%
Other	-0.93%	-0.89%	0.04%
Resale	0.00%	0.00%	0.00%
Total Customers	**5.50%**	**5.32%**	**-0.17%**

[15] *See* Appendix Table 1(a)(ii).
[16] *Id.*
[17] *Id.*
[18] The "Other" rate class refers to customers that do not fall into one of the listed classes; street lighting is an example of a rate class included under "Other." The Resale class refers to Sales for Resale which is energy supplied to other electric utilities, cooperatives, municipalities, and federal and state electric agencies for resale to end use consumers. PE is the only utility with any resale customers; these wholesale customers are Monongahela Power Company, West Penn Power Company, and Old Dominion Electric Cooperative.
[19] *See* Appendix Tables 1(a)(i)-(vi) for more information.

B. Energy Sales Forecast

The Maryland utilities provide forecasts for energy sales and peak load in terms of "Gross of Demand Side Management ("DSM")" and "Net of DSM."[20] (DSM programs are discussed in greater detail in Section III.D of this report). In order to provide a more complete look at Maryland energy sales and peak demand forecasts, Sections III.B and III.C discuss the forecasts in "Gross of DSM" terms which reflect the forecasts *before* the impact of DSM programs. Table 4 shows the energy sales forecast within Maryland (Gross of DSM) for the 10-year planning period, as provided by the utilities.

Table 4: Maryland Energy Sales Forecast (GWh) (Gross of DSM)[21]

	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Total
Change (2025-2034)	4	3,686	-7	28	7	9,644	49	398	13,809
Percent Change (2025-2034)	7.22%	12.50%	-0.16%	11.58%	2.27%	108.04%	0.36 %	11.35%	22.80 %
Compound Annual Growth Rate	0.78%	1.32%	-0.02%	1.22%	0.25%	8.48%	0.04 %	1.20%	2.31%

The aggregated forecasts show a compound annual increase of 2.31 percent across all the Maryland service territories for 2025-2034, an increase from the 1.38 percent annual growth rate reported in the 2024-2033 Ten-Year Plan. This result is primarily due to PE's and BGE's increased projections of energy sales growth rate in this year's reporting relative to last year's. The overall growth projected by PE for this 10-year planning period is the highest of any Maryland utility in absolute terms with the company projecting a 9,644 GWh increase in yearly energy sales by 2034. PE attributes the sizable increase in forecasted Maryland energy sales to anticipated data center growth within PE's service territory. PE expects that data centers in its service territory will come online in 2025 and ramp up usage in 2027. BGE attributes its increase in forecasted Maryland Energy Sales to impacts of data centers, electric vehicles, and customer growth.

Other utilities projecting a percent change in annual energy sales above 10% by 2034 include SMECO and the municipality of Easton. SMECO largely attributes the sales growth to an increase in residential customers within the service territory. Easton attributes the increase to residential load growth with some commercial growth factored in multiple years out. The only utility forecasting a reduction in yearly gross energy sales is DPL which attributes its decrease in forecasted Maryland energy sales to impacts of energy efficiency and behind-the-meter solar partially offset by customer and electric vehicle growth.

[20] *See* Appendix Table 2(a)(ii) for the Maryland Energy Sales forecast, Net of DSM programs; Appendix Table 3(a)(ii) for the Maryland Summer Peak Demand Forecast, Net of DSM programs; and Appendix Table 3(a)(iv) for the Maryland Winter Peak Demand Forecast, Net of DSM programs.

[21] *See* Appendix Table 2(a)(i) for utility-by-utility energy sales forecasts for service territory within Maryland available by Gross and Net of DSM. *See* Appendix Table 2(b) for the same information on a utility system-wide basis.

C. Peak Load Forecasts

PJM's 2025 Load Forecast Report includes long-term projections of peak loads for the entire wholesale market region and each PJM zone.[22,23] Because most of the PJM zones containing Maryland also extend outside of the state, the utilities submit peak demand forecasts restricted to their Maryland service territories as part of the Ten-Year Plan.[24] According to PJM's 2025 Load Forecast Report, the PJM Regional Transmission Organization ("RTO") will continue to be summer peaking during the next 20 years.[25] In 2025, three of the four PJM zones of which Maryland is a part were projected in PJM's Report (which was released in January 2025) to experience their peak demands during the month of July,[26] the same month as the broader PJM mid-Atlantic region.[27] The fourth PJM zone containing Maryland, APS, was projected to experience its peak demand in 2025 in January.

Unlike PJM's forecasts for the whole RTO, Berlin, DPL, Hagerstown, PE, SMECO, Thurmont, and Williamsport are forecasting their peak demands to occur in the winter in some or all of the forecasted years from 2025-2034.[28] These utilities have generally peaked in the winter over the past few planning periods for reasons including higher concentrations of electric heating, geographical features, and colder temperatures.

Figure 5 compares the average of the Maryland utilities' forecasted summer peak demands for their Maryland service territories with summer forecasts for the PJM mid-Atlantic region and for the PJM RTO as a whole. In the long-term, the Maryland utilities are showing a weaker peak demand growth rate than the PJM RTO and the PJM mid-Atlantic region. The Maryland utilities are projected to show faster peak demand growth than the PJM mid-Atlantic region in the short-term until about 2027. Also reflected in Figure 5, is a slowdown in the summer peak demand growth rates for the Maryland utilities from 2026–2028, after which the growth rates stabilize through 2034. The wider PJM region is projected by PJM to have a larger annual growth rate in peak demand over the next 10 years than either Maryland or the mid-Atlantic region.

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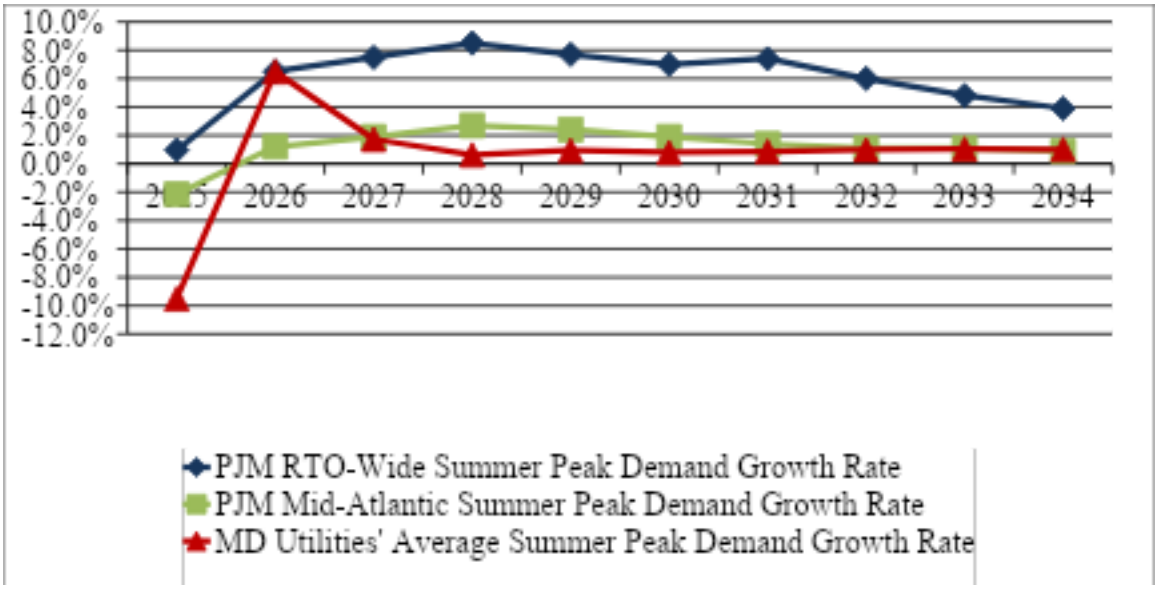
[22] *PJM Load Forecast Report Excel Tables,* PJM, (Jan. 2025), Table B-1, https://www.pjm.com/-/media/DotCom/planning/res-adeq/load-forecast/2025-load-report-tables.xlsx.
[23] The four PJM zones spanning the Maryland service territory include APS, BGE, DPL, and PEPCO. *See supra* Figure 2 for a map of the Maryland zones. "APS" represents the Allegheny Power Zone of which PE is a sub-zone.
[24] *See* Appendix Tables 3(a)(i)-(iv) for more information on in-state peak demand forecasts for Maryland utilities, available for summer and winter, and by gross and net of DSM programs. *See* Appendix Tables 3(b)(i)-(iv) for the same information presented as system wide data for utilities operating in Maryland.
[25] *PJM Load Forecast Report,* PJM, (Jan. 2025) at 6, https://www.pjm.com/-/media/DotCom/library/reports-notices/load-forecast/2025-load-report.ashx.
[26] *PJM Load Forecast Report Excel Tables,* PJM, (Jan. 2025), Table B-5, https://www.pjm.com/-/media/DotCom/planning/res-adeq/load-forecast/2025-load-report-tables.xlsx.
[27] *Id.* Three of the Maryland PJM zones (BGE, DPL, and Pepco) are part of the PJM Mid-Atlantic Region. The fourth Maryland PJM zone (APS) is part of the PJM Western Region data set.
[28] *See* Appendix Tables 3(a)(i) and 3(a)(iii).

Figure 5: Average of Utilities' Projected Summer Peak Demand Growth Rates (Gross of DSM) Compared to Projected Summer Peak Demand Growth Rates for PJM Mid-Atlantic and PJM RTO[29,30]



The Maryland utilities also provided peak demand forecasts for the winter season in response to the Ten-Year Plan data request. Figure 6 below depicts an average of the Maryland utilities' forecasted winter peak demands contrasted with winter peak demand forecasts for the PJM mid-Atlantic region and for the PJM RTO.

[29] *PJM Load Forecast Report Excel Tables*, PJM, (Jan. 2025), Table B-1, https://www.pjm.com/-/media/DotCom/planning/res-adeq/load-forecast/2025-load-report-tables.xlsx.
[30] *See* Appendix Table 3(a)(i).

Figure 6: Average of Utilities' Projected Winter Peak Demand Growth Rates (Gross of DSM) Compared to Projected Winter Peak Demand Growth Rates for PJM Mid-Atlantic and PJM RTO[31,32]

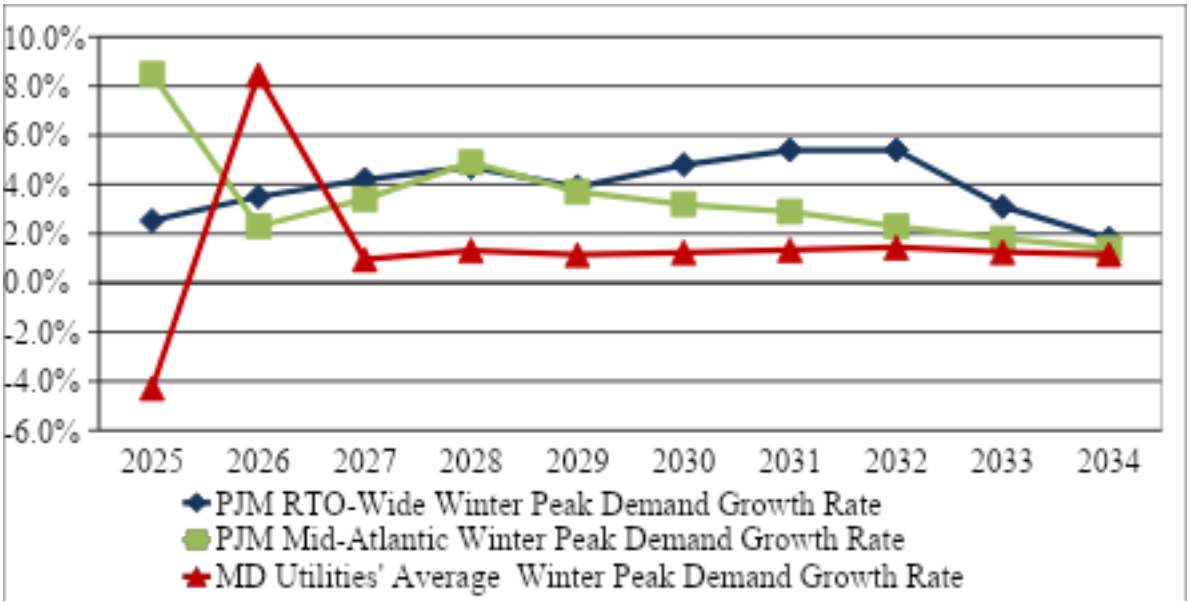
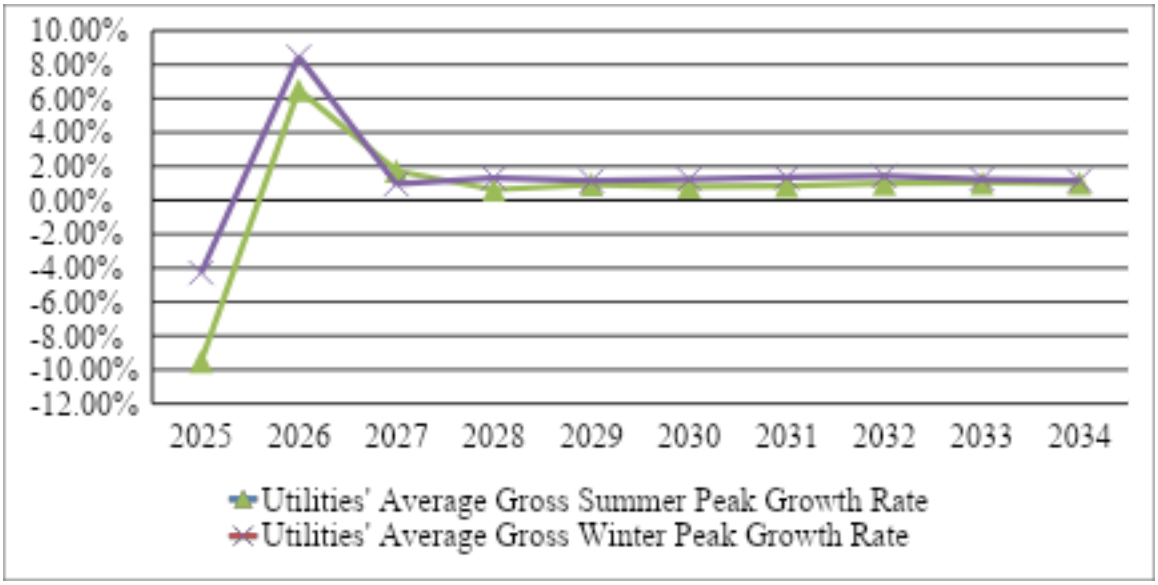


Figure 7 shows that the utilities' average gross winter peak growth rate plummets from 2026 to 2027 and then stabilizes through 2034. The utilities' average gross summer peak growth rate follows the same general pattern as the winter growth rate albeit slightly more gradually.

[31] *See* Appendix Table 3(a)(iii).
[32] *PJM Load Forecast Report Excel Tables, PJM,* (Jan. 2025), Table B-2, https://www.pjm.com/-/media/DotCom/planning/res-adeq/load-forecast/2025-load-report-tables.xlsx.

Figure 7: Utilities' Projected Summer Peak Demand Growth Rates (Gross of DSM) Compared to Utilities' Projected Winter Peak Demand Growth Rates (Gross of DSM)



As shown in Table 5 and Table 6 below, the 10-year forecasted Maryland annual growth rates of summer and winter peak demand (gross of DSM) are 1.59 percent and 2.01 percent, respectively.[33] In 2034, at the end of this planning timeframe, these growth rates translate into an expected summer peak demand load (gross of DSM) for the Maryland service territory of 16,686 MW and an expected winter peak demand load (gross of DSM) for Maryland of 14,977 MW.[34]

Table 5: Maryland Summer Peak Demand Forecast (MW) (Gross of DSM)[35,36]

	Berlin	BGE	DPL	Easton	Hagers-town	PE	Pepco	SMECO	Total
Change (2025-2034)	1	258	11	7	1	1,720	108	104	2,211
Percent Change (2025-2034)	7.75%	3.67%	1.06%	11.58%	2.27%	101.86%	2.99%	11.15%	15.27%
Compound Annual Growth Rate	0.83%	0.40%	0.12%	1.23%	0.25%	8.12%	0.33%	1.18%	1.59%

[33] *See* Appendix Tables 3(a)(i) and 3(a)(iii).
[34] *Id*.
[35] *See* Appendix Table 3(a)(i).
[36] Thurmont and Williamsport were not included in this table because the companies do not have any changes in their peak demand forecasts over the 10-year period.

Table 6: Maryland Winter Peak Demand Forecast (MW) (Gross of DSM)[37,38]

	Berlin	BGE	DPL	Easton	Hagers-town	PE	Pepco	SMECO	Total
Change (2025-2034)	1	453	54	7	7	1,773	138	21	2,453
Percent Change (2025-2034)	7.75%	7.59%	5.39%	11.87%	9.37%	102.32%	5.25%	2.02%	19.58%
Compound Annual Growth Rate	0.83%	0.82%	0.58%	1.25%	1.00%	8.14%	0.57%	0.22%	2.01%

D. Impact of Demand Side Management

DSM refers to programs which are typically designed to reduce demand on the grid, either overall or at moments of peak system stress. DSM programs result in lower net growth of both energy sales and peak demand. To evaluate the impact of DSM programs, this section reflects the Maryland utilities' energy sales forecasts *after* the benefits of DSM programs are included ("net of DSM"). For purposes of this section, only the five utilities participating in EmPOWER Maryland[39] are evaluated: BGE, DPL, PE, Pepco, and SMECO ("the participating utilities").[40]

The tables below compare the growth in DSM savings across the participating utilities from 2025 to 2028. The forecasted savings post-2026 vary in forecasting method and amount across the participating utilities given that Commission-approved plans for utility-implemented energy efficiency and conservation ("EE&C") programs pertain only to the 2024-2026 program cycle.[41] Table 7 shows the growth in demand savings from DSM programs due to EE&C portfolios while Table 8 shows the growth in total demand savings attributable to DSM programs as a whole. The variation in the magnitude of impact of the EE&C and DSM programs by utility are due to the different sizes of the programs offered and the way in which the data was forecasted by the participating utilities. DPL, Pepco, and SMECO are forecasting substantially lower demand savings over 2025-2028 relative to the savings projected for 2024-2027 in last year's Ten-Year Plan. DPL and Pepco indicate that the transition from energy savings measured in

[37] *See* Appendix Table 3(a)(iii).
[38] Thurmont and Williamsport were not included in this table because the companies do not have any changes in their peak demand forecasts over the 10-year period.
[39] The EmPOWER Maryland Energy Efficiency Act of 2008 created the EmPOWER Maryland program to incentivize EE&C efforts. As part of their EmPOWER Maryland portfolios, Maryland's five largest electric utilities offer programs to help Maryland's households and businesses save energy and money through a variety of incentives such as free or discounted energy audits, weatherization, and efficient appliances.
[40] *See* The EmPOWER Maryland Report to the General Assembly for more information on the energy efficiency and demand response programs associated with EmPOWER Maryland, *available at:* https://www.psc.state.md.us/wp-content/uploads/2025-EmPOWER-Maryland-Energy-Efficiency-Act-Standard-Report-Final.pdf.
[41] Because the Commission has not approved plans beyond the 2024-2026 program cycle at this time, BGE did not include any EE&C savings projections after 2026. The other participating utilities assume a level of savings post-2026.

megawatt-hours to greenhouse gas reductions following the passage of House Bill 864 has been a key driver to forecast changes over time. The Commission notes that demand savings projections later in the 2025-2034 planning horizon may be affected by future iterations of EmPOWER Maryland program cycle proposals.

Table 7: Average Annual Increase in Demand Savings due to DSM Programs from 2025 to 2028 for EE&C Programs[42]

Description	BGE	DPL	PE	Pepco	SMECO
Average Annual MW Savings Change due to DSM Programs	-6.0%	0.2%	12.2%	0.1%	0.0%

Table 8: Average Annual Increase in Demand Savings due to DSM Programs from 2025 to 2028 for All DSM Programs[43]

Description	BGE	DPL	PE	Pepco	SMECO
Average Annual MW Savings Change due to DSM Programs	-7.3%	0.2%	11.6%	0.0%	0.0%

BGE does not forecast increases in average demand savings attributable to DSM programs beyond 2026, with the exception of the Residential Demand Response program. Using the 2024-2026 data for which there are projections, BGE's forecasted average increase in demand savings is 4.98% for EE&C programs and 4.63% for all DSM programs.

IV. Transmission, Supply, and Generation

To ensure a safe, reliable, and economic supply of electricity in Maryland, an appropriate balance of generation, DSM, imports, and transmission must be achieved. While importation and DSM offer ancillary benefits to managing the power supply, establishing and maintaining local generation helps to mitigate the risk to Maryland's long-term reliability.

In this Ten-Year Plan, the congestion costs and the role of transmission infrastructure in planning processes are discussed in Section IV.A. Section IV.B focuses on the state-specific impact of Maryland's status as a net importer of electricity. Information related to the capacity, composition, and age of Maryland's current generation profile is discussed in Section IV.C.

Maryland depends on PJM to operate the regional transmission system and to schedule the flows of power around the State (including importing power from other areas into Maryland). All load serving entities in PJM are required to ensure that they have sufficient capacity contracts to provide reliable electric service during periods of

[42] Responses to the Commission's Ten-Year Plan data requests.
[43] *Id.*

peak demand. As of 2024, Maryland's net summer generating capacity was 11,718 MW.[44] Maryland's peak demand forecast for 2025, net of utility DSM and energy conservation measures, is approximately 13,166 MW.[45] Maryland had the capability to meet 98.4 percent of its summer peak demand with in-state generation in 2024.[46] Notwithstanding the ability to meet 98.4 percent of peak capacity with in-state generation, Maryland imports a significant portion of its electricity needs as discussed in more detail in Part B of this section.

A. Regional Transmission[47]

In its 2024 Regional Transmission Expansion Plan ("RTEP"), PJM authorized about $5.9 billion in system transmission improvement projects. [48] The development of the RTEP considers the forecasted impacts of system trends which are often driven by federal and state policy decisions. The planning process applies the North American Electric Reliability Corporation ("NERC") Planning Standard through the application of a wide range of reliability analyses (including load and generation deliverability tests) over a 15-year planning horizon.

1. Regional Transmission Congestion

This section of the Ten-Year Report discusses congestion in the PJM region. Congestion reflects the underlying characteristics of the power system, including the nature and capability of transmission facilities as well as the cost and geographical distribution of facilities. Congestion occurs when available, least-cost energy cannot be delivered to all loads because of inadequate transmission facilities, thereby causing the price of energy in the constrained area to be higher than in an unconstrained area. PJM's Locational Marginal Pricing ("LMP") system is designed to reflect the value of energy at a specific location and time of delivery, thus measuring the impact of congestion throughout the PJM system. Total congestion costs for the PJM RTO increased by 64.2 percent ($685.8 million) between 2023 and 2024.[49]

2. Regional Transmission Upgrades

The Commission recognizes the need to maintain and improve the transmission system within Maryland in order to ensure safe, reliable, and economic electric service to

[44] *Maryland Electricity Profile 2024*, The U.S. Energy Information Administration ("EIA"), (November 10, 2025), https://www.eia.gov/electricity/state/maryland. The EIA's most recent data available is from 2024. The next anticipated release date is listed as November 2026.
[45] *See* Appendix Table 3(a)(ii).
[46] The peak demand net of DSM programs for the summer of 2024 was 11,908 MWs according to the 2024-2033 Ten-Year Plan. 11,718/11,908 = 98.4%.
[47] *See* Appendix Table 4 for a full list of transmission enhancements proposed by Maryland utilities.
[48] *2024 Regional Transmission Expansion Plan.* PJM, (April 17, 2025) at 1, https://www.pjm.com/-/media/library/reports-notices/2024-rtep/2024-rtep-report.ashx.
[49] Monitoring Analytics, *State of the Market Report for PJM - 2023*, PJM, (March 13, 2025) at 607, https://www.monitoringanalytics.com/reports/PJM_State_of_the_Market/2024/2024-som-pjm-sec11.pdf.

the state's ratepayers. As with increases in local generating capacity and the reduction of system load, transmission expansions and improvements can reduce congestion and LMP differences among zones. Such improvements may also support reliability requirements and mitigate economic concerns. PJM's 2024 RTEP identified 28 transmission projects in Maryland for approximately $396 million,[50] compared to 50 identified transmission projects in Maryland for approximately $2.0 billion in PJM's 2023 RTEP.[51]

Appendix 4 lists all transmission enhancements identified by the Maryland utilities in response to data requests for the Ten-Year Plan. Together, the 24 identified transmission enhancements in Appendix Table 4 account for 127 miles of upgrades.

B. Electricity Imports

Maryland continues to be a net importer of electricity, similar to many other states in PJM.[52] In 2024, 43 percent of the electricity consumed in the State was imported from other states.[53] Nine of the 13 PJM states plus the District of Columbia are net importers of electricity. In a nationwide comparison, Maryland is the fifth largest electricity importer based on percentage of electricity sales.[54] Only the District of Columbia, Massachusetts, Delaware, and Vermont exceed Maryland in the percentage of electricity sales that are imported. As of 2024, the states within the PJM region that exported more electricity in aggregate than was sold within each state are: Illinois, Pennsylvania, Michigan, and West Virginia.[55]

In-state generation has declined in recent years in Maryland. In 2009, Maryland resources generated over 43 million MWh in electricity. In 2024, in-state resources generated 35.4 million MWh.[56] The EmPOWER Maryland program, together with other energy efficiency efforts across the State, contributes to a decrease in the peak demand which reduces the need to increase capacity and generation capabilities both in Maryland

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[50] The total reported number of projects reflects baseline, network, and supplemental projects within Maryland. The PJM RTEP report combines the District of Columbia and Maryland projects together – there were 31 total projects identified in the District of Columbia and Maryland combined, and 28 of these are within Maryland. *See 2024 Regional Transmission Expansion Plan.* PJM, (April 17, 2025) at 164-168. https://www.pjm.com/-/media/library/reports-notices/2024-rtep/2024-rtep-report.ashx.

[51] 2023 Maryland and District of Columbia State Infrastructure Report, PJM, at 15-17, (June 2024), https://www.pjm.com/-/media/library/reports-notices/state-specific-reports/2023/maryland-and-dc.ashx.

[52] PJM operates, but does not own, the transmission systems in: (1) Maryland; (2) all or part of 12 other states; and (3) the District of Columbia. With FERC approval, PJM undertakes the task of coordinating the movement of wholesale electricity and provides access to the transmission grid for utility and non-utility users alike. Within the PJM region, power plants are dispatched to meet load requirements without regard to operating company boundaries. Generally, adjacent utility service territories import or export wholesale electricity as needed to reduce the total amount of capacity required by balancing retail load and generation capacity.

[53] Table 10 in download of "Full data tables" at *Maryland Electricity Profile 2024*, EIA, (November 10, 2025), https://www.eia.gov/electricity/state/maryland.

[54] *US Electricity Profile 2024,* EIA (November 10, 2025), https://www.eia.gov/electricity/state/.

[55] *Id.*

[56] Table 5 in download of "Full data tables" at *Maryland Electricity Profile 2024*, EIA, (November 10, 2025), https://www.eia.gov/electricity/state/maryland.

and throughout the PJM region. According to EIA, Maryland is ranked 43rd in the country for per capita energy consumption.[57]

C. Maryland Capacity and Generation Profiles

The capacity and generation profiles of in-state resources must be comprehensively analyzed for both short-term and long-term reliability planning purposes. The following sections detail such profiles in Maryland.

1. Capacity and Generation Profiles

Table 9 and Table 10 below depict the electric generating capacity in Maryland, as well as the age of plants by fuel type.[58]

Table 9: Maryland Summer Peak Capacity Profile, 2024

Primary Fuel Type	Capacity	
	Summer (MW)	Percent of Total
Coal	1,273.0	10.9%
Oil	1,546.3	13.2%
Natural Gas	5,629.1	48.1%
Nuclear	1,745.2	14.9%
Hydroelectric	514.9	4.4%
Other and Renewables	992.6	8.5%
Total	**11,701.1**	**100.0%**

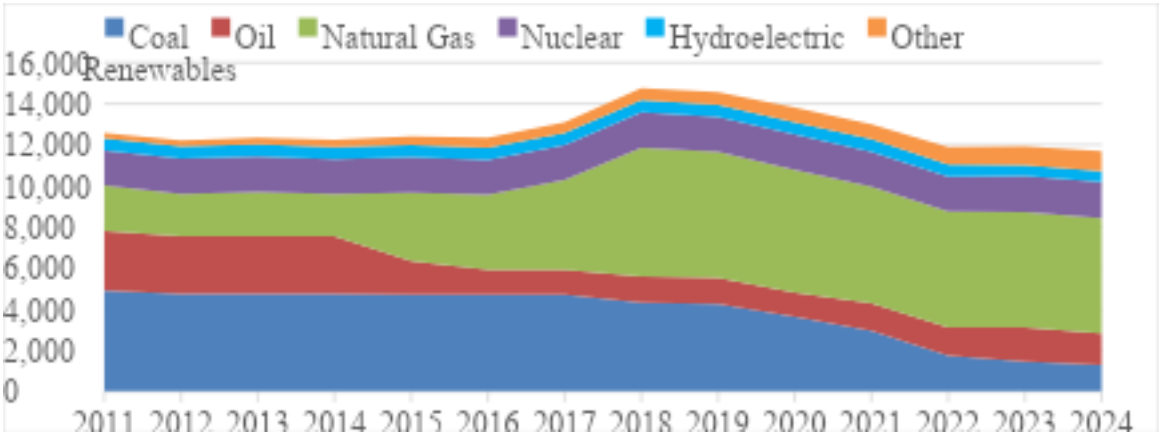
[57] *Maryland State Energy Profile*, U.S. Energy Information Administration (September 18, 2025). https://www.eia.gov/state/print.php?sid=MD.
[58] *See* Appendix Table 5 for a list of Maryland generation capacity in 2024.

Table 10: Age of Maryland Generation by Fuel Type, 2024

Primary Fuel Type	Age of Plants, By Percent			
	1-10 Years	11-20 Years	21-30 Years	31+ Years
Coal	0%	0%	0%	100%
Oil	2%	4%	15%	79%
Natural Gas	30%	15%	32%	23%
Nuclear	0%	0%	0%	100%
Hydroelectric	0%	0%	0%	100%
Other and Renewables	61%	32%	4%	3%

Maryland's summer peak capacity profile decreased by 213.5 MW in 2024 compared to 2023, as illustrated in Figure 8. The decreased capacity in 2024 can be almost entirely attributed to decreases in coal.

Figure 8: Maryland Summer Capacity Profile (MW), 2011 – 2024[59]



Maryland's generating profile differs from its capacity profile. For example, nuclear power provided 41.6 percent of the electricity generated in Maryland in 2024 though this resource represented just under 15 percent of in-state capacity. Conversely, oil facilities, which operate as mid-merit or peaking units that come on-line when needed, generate 0.6 percent of the electric energy produced in Maryland while representing 13.2 percent of in-state capacity. Table 11 summarizes Maryland's 2024 in-state generation profile according to fuel source.

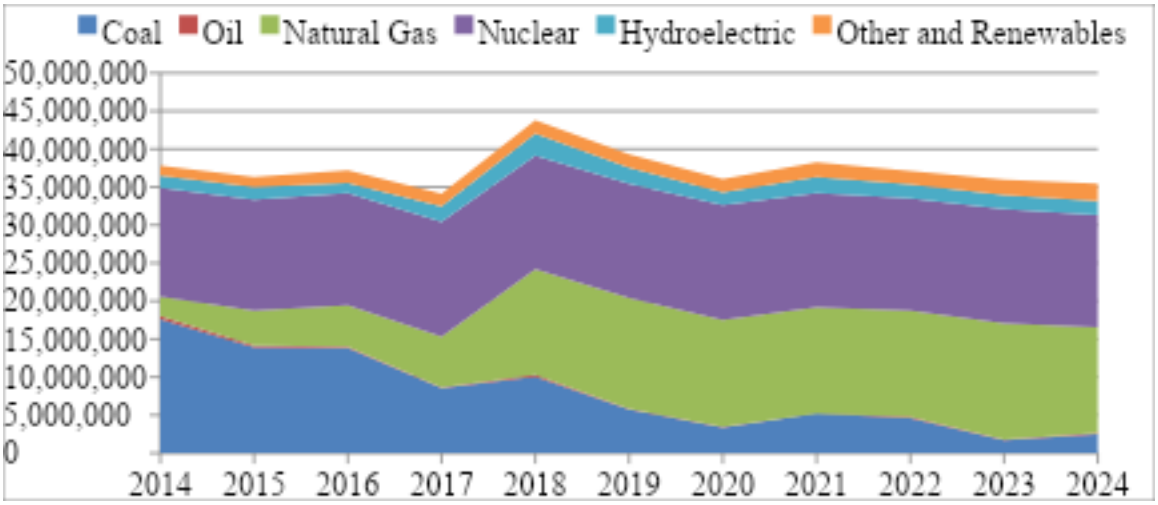
[59] U.S. Energy Information Administration, Form EIA-923, "Power Plant Operations Report."

Table 11: Maryland Generation Profile, 2024[60]

Primary Fuel Source	Generation	
	Annual (MWh)	Percent of Total
Coal	2,465,722	7.0%
Oil	211,556	0.6%
Gas	13,910,094	39.3%
Nuclear	14,724,068	41.6%
Hydroelectric	1,848,233	5.2%
Other & Renewables	2,265,144	6.4%
Total	**36,000,648**	**100.0%**

The percentage of in-state generation derived from various fuel sources continues to evolve as illustrated in Figure 9 below. The percentage of generation from coal has dropped from 47 percent in 2014 to 7 percent in 2024. The decrease in in-state generation can be largely attributed to this drop in coal generation over time.

Figure 9: Maryland Generation Profile, 2014 – 2024[61]



PJM lists two plants as retired in 2024 in Maryland: a coal-powered plant in the APS zone accounting for 180 MW in capacity and a battery-powered plant, also in the APS zone accounting for an additional 5 MW. The two retirements total 185 MW of capacity.[62] There are four pending deactivation requests in Maryland, all in the BGE service territory. The Maryland generators pending deactivation combine for an aggregate capacity of 1,983.6 MW; these pending requests are impacted by the Federal Energy Regulatory Commission ("FERC"). FERC orders delaying their retirement, as discussed

[60] Table 5 in download of "Full data tables" at *Maryland Electricity Profile 2024*, EIA, (November 10, 2025), https://www.eia.gov/electricity/state/maryland.
[61] *Id.*
[62] Generation Deactivations, PJM, https://www.pjm.com/planning/service-requests/gen-deactivations.aspx. Accessed December 2025.

in greater detail below. PJM registers 8.48 GW of capacity resources requesting deactivation within the RTO as of December 2025.[63]

On May 1, 2025, FERC issued an order approving contested settlements for the Brandon Shores and H.A. Wagner plants to provide reliability-must-run ("RMR") service under black box settlement rates effective June 1, 2025 through May 31, 2029.[64] The settlements reduce annual fixed-cost charges by about 17% from the initial filings, cap certain regulatory and project investment costs, and require crediting of capacity market revenues to customers. Both plants were originally scheduled for deactivation on June 1, 2025, but will now remain operational under these agreements to address PJM system reliability concerns.

2. Proposed Generation Additions[65]

The construction of new generation is one way to address the in-state capacity and electricity import issues discussed in previous sections. As of June 2025, there were 4,484.7 MWs of proposed new generation in Maryland active in the PJM queue with 31 percent consisting of solar projects.[66]

The Commission recognizes the importance renewable generation plays in meeting Maryland's energy needs while also addressing environmental concerns. Based on the PJM queue as of June 2025, Maryland's renewable generation capacity is planned to increase by an estimated 1,474 MW over the next several years as shown in Table 12 below. This does not, however, account for smaller renewable generators, notably residential solar; these smaller renewable generators are not required to obtain PJM interconnection status but simply require interconnection with the local utility.

[63] *Id.*
[64] 191 FERC ¶ 61,098 (2025).
[65] *See* Appendix Table 6 for a complete list of new renewable generation proposed in Maryland.
[66] Serial Service Request Status, PJM (June 2025), https://www.pjm.com/planning/service-requests/serial-service-request-status.

Table 12: Proposed New Renewable Generation in Maryland

Utility	Fuel Type	In-Service Date Range	Total Capacity (MW)
PE (APS)	Solar	2023-2026	205.7
	Hydro	2023	14.0
	Wind	2021-2024	59.7
BGE	Solar	2023	33.0
DPL	Solar	2021-2028	404.9
Pepco	Solar	2023-2025	741.7
SMECO	Solar	2026	15.0
		Total (MW):	**1,473.9**

The amount of solar resources in Maryland is anticipated to continue to increase due to a suite of State policy initiatives: the requirement that the Renewable Portfolio Standard ("RPS") solar carve-out be interconnected to the distribution network serving Maryland; net metering incentives; tax incentives; the community solar pilot program (now a permanent program); Solar Renewable Energy Credit ("SREC") incentives; and grants administered by the Maryland Energy Administration.

On May 11, 2017, the Commission approved US Wind's 248 MW Maryland Offshore Wind Project ("MarWin") and Ørsted's 120 MW Skipjack Wind 1 Farm through the Round 1 Offshore Wind Renewable Energy Credit ("OREC") Program in compliance with the Maryland Offshore Wind Energy Act of 2013.[67] On December 17, 2021, the Commission approved US Wind's 808.5 MW Momentum Wind and Ørsted's 846 MW Skipjack Wind 2 Farm through the Round 2 OREC Program in compliance with the Clean Energy Jobs Act of 2019 ("CEJA").[68] Maryland's approved OREC projects totaled 2,022.5 MW; however, on January 25, 2024, Ørsted withdrew its Skipjack 1 and 2 Projects, reducing the total to 1,056.5 MW.[69]

On January 24, 2025, the Commission approved US Wind's application for a Revised Round 2 OREC Project in compliance with An Act Concerning Electricity - Offshore Wind Projects - Alterations Act enacted in 2024. US Wind's total project consists of 1,710 MW to be constructed in four phases by 2030. The Maryland Offshore Wind Project will generate 1.68 million MWh annually after its Phase 1 completion at the end of 2028. The generation will increase to almost 7 million MWh annually beginning in December 2030 after completion of the remaining three project phases.[70]

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[67] Case No. 9431, *In The Matter Of The Applications Of US Wind, Inc. And Skipjack Offshore Energy, LLC For A Proposed Offshore Wind Project(s) Pursuant To The Maryland Offshore Wind Energy Act Of 2013*. Order No. 88122, at 121 (May 11, 2017).

[68] Case No. 9666, *Skipjack Offshore Energy, LLC and US Wind, Inc.'s Offshore Wind Applications under the Clean Energy Jobs Act of 2019*. Order No. 90011, at 149 (December 17, 2021).

[69] Case No. 9666, *Skipjack Offshore Energy, LLC and US Wind, Inc.'s Offshore Wind Applications under the Clean Energy Jobs Act of 2019*. Skipjack Letter Withdrawing from OREC Orders (January 25, 2024).

[70] Case No. 9666, Order No. 91496, at 220 (January 24, 2025).

US Wind has completed the federal, State, and county permitting processes for the Maryland Offshore Wind and Momentum Wind Projects. US Wind has completed all of the required federal permitting authorizations from several federal agencies in compliance with the National Environmental Policy Act ("NEPA").[71] The most significant was the Bureau of Ocean Energy Management ("BOEM") approval of its Construction and Operations Plan on December 3, 2024.[72] Stakeholders have filed appeals against a number of these permit approvals.

US Wind has also completed all the required State permitting authorizations with Maryland and Delaware. The Environmental Protection Agency ("EPA") delegated authority of its Outer Continental Shelf ("OCS") Air Permit to the Maryland Department of Environment ("MDE"). MDE issued its approval of US Wind's OCS Air Permit on June 5, 2025.[73] On November 20, 2024, the Maryland Board of Public Works approved US Wind's tidal wetlands license authorizing US Wind to build a pier that would support its Operations and Maintenance facility on the Sinepuxent Bay in Maryland.[74] The Delaware Department of Natural Resources and Environmental Control ("DNREC") issued a number of environmental permits for the project's transmission cable landfall site at the 3R's Beach State Park and cable route to the point of interconnection at Indian River Power Plant on January 8, 2025 and January 10, 2025.[75] Stakeholders have filed appeals against a number of these permit approvals.

Meanwhile, the Sussex County Council denied US Wind's application for a conditional use permit to construct the onshore substation at Indian River Power Plant on December 17, 2024.[76] US Wind appealed the County's decision with the Delaware Superior Court on December 26, 2024.[77] In response, Delaware enacted Senate Bill 159 on June 30, 2025, which retro-actively overturned the Sussex County Council's decision on US Wind's conditional use permit for its onshore substation at the Indian River Power Plant.[78]

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[71] Maryland Offshore Wind Project, Permitting Dashboard | Federal Infrastructure Projects, https://www.permits.performance.gov/permitting-project/fast-41-covered-projects/maryland-offshore-wind-project (August 11, 2025).
[72] Maryland Offshore Wind, Bureau of Ocean Energy Management, https://www.boem.gov/renewable-energy/state-activities/maryland-offshore-wind (August 11, 2025).
[73] Maryland Offshore Wind Project, Maryland Department of Environment, https://mde.maryland.gov/programs/permits/AirManagementPermits/Pages/U.-S.-Wind-Maryland-Offshore-Wind-Project-.aspx (August 11, 2025).
[74] Memorandum of Understanding between the Maryland Department of Natural Resources and US Wind, Inc., Maryland Department of Natural Resources, https://dnr.maryland.gov/ccs/Documents/MDNR_US_Wind_MOU_executed.pdf (May 13, 2025).
[75] US Wind Project, Delaware Department of Natural Resources and Environmental Control, https://dnrec.delaware.gov/us-wind/ (August 11, 2025).
[76] Sussex County Council, https://connect.sussexcountyde.gov/PublicDocket/#/details/CU%202515 (December 17, 2024).
[77] Docket Report Results, Delaware Superior Court, https://courtconnect.courts.delaware.gov/cc/cconnect/ck_public_qry_doct.cp_dktrpt_frames?backto=P&case_id=S24A-12-002&begin_date=&end_date= (December 26, 2024).
[78] Senate Bill 159, Delaware General Assembly, https://legis.delaware.gov/BillDetail?LegislationId=142363 (August 11, 2025).

3. Nuclear Generation

The Commission also recognizes the important role nuclear generation plays in meeting Maryland's energy needs. Nuclear energy provides reliability to the grid while assisting Maryland in reaching its Regional Greenhouse Gas Initiative ("RGGI") commitments and its goals under the Greenhouse Gas Emissions Reduction Act. CEJA required DNR to conduct an additional study on the relevancy and outlook for nuclear capacity on Maryland's generating portfolio both currently and in the future. In 2025, the Next Generation Energy Act ("NGEA") was enacted which created a competitive solicitation for nuclear zero emission credits ("ZEC") to promote development of nuclear generation at new or existing facilities in Maryland. NGEA requires the Commission to adopt regulations to implement the ZEC competitive solicitation by July 1, 2027. On June 25, 2025, the Commission convened Public Conference ("PC") 71 and established the Nuclear Procurement Work Group to develop draft regulations. In addition, NGEA requires the Commission to provide the General Assembly with a report identifying necessary legislative changes to implement the ZEC competitive solicitation by January 15, 2026.

4. Storage

The Energy Storage–Targets and Maryland Energy Storage Program–Establishment Act was passed in 2023 and requires the Commission to establish targets for the cost-effective deployment of new energy storage devices in the State with a goal of achieving 3,000 MW cumulative energy storage capacity by the end of delivery year 2033 (May 2034). The first milestone for the 3,000 MW capacity goal is 750 MW by delivery year 2027 (May 2028). In further support of these goals, NGEA was passed in 2025 providing additional granularity for goal allocations of certain types of energy storage. These goals include at least 150 MW of distribution-connected front-of-the-meter ("FTM") energy storage achieved through utility submitted plans and two different Commission procurements for a maximum in each procurement of 800 MW of transmission-connected FTM energy storage. The NGEA also specified a goal for 30 percent of the distribution-connected FTM energy storage devices to be owned by a third party.

The Commission has issued multiple orders in 2025 in recognition of the stated energy storage goals. In Order No. 91705, issued June 24, 2025, the Commission determined that the 150 MW minimum distribution-connected FTM energy storage deployment goal created by the NGEA will be allocated to utility territories according to 2024 energy sales and accordingly directed the utilities to propose plans by November 1, 2025 to achieve at least one-third of their target. Additionally, on October 15, 2025, the Commission opened PC 75 to begin the process for procuring transmission-connected FTM energy storage.

There are several storage projects in the PJM queue that are projected to begin operating in the near future as illustrated in Table 13 below.

Table 13: Proposed New Storage Generation in Maryland PJM Queue Effective Date: June 2025

Transmission Owner	Project Name	County Location	PJM Queue Status	PJM Queue #	Project Capacity (MW)	Commercial Operation Milestone
DPL	Airey-Vienna 69 kV II	Dorchester	Active	AG1-450 - moved to TC1	25.0	12/31/2022
DPL	Church 138 kV	Queen Anne's	Active	AG2-281 - moved to TC2	50.0	5/1/2024
DPL	Carville 138 kV IV	Queen Anne's	Active	AG2-380 - moved to TC2	20.0	9/15/2023
BGE	Northeast - Riverside 230 kV	Baltimore County	Active	AH1-261 - moved to TC2	135.0	6/30/2025
DPL	Church-Oil City 138kV	Queen Anne's	Active	AH1-536 - moved to TC2	8.5	3/1/2025
PEPCO	Chalk Point 230 kV	Prince George's	Active	AH1-552 - moved to TC2	670.2	6/1/2025
BGE	Conastone 500 kV	Harford	Active	AH1-725 - moved to TC2	500.0	6/11/2029
DPL	Crisfield 69kV	Somerset	Active	AH2-049	20.0	6/2/2025
BGE	Northeast-CP Crane 115kV	Baltimore County	Active	AH2-162	200.0	3/1/2026
APS	Catoctin-Carroll 138 kV	Frederick	Active	AH2-262	10.2	3/1/2026
PEPCO	Oak Grove - Hawkins Gate 230kV	Charles	Active	AH2-265	200.0	3/1/2026
PEPCO	Talbert 230kV	Prince George's	Active	AH2-332	115.0	12/31/2025
DPL	Talbot 69 kV	Worcester	Active	AH2-337	80.0	2/27/2026
SMECO	Sollers 230kV	Calvert	Active	AH2-423	180.0	12/31/2025
BGE	Northeast-CP Crane 115kV	Baltimore County	Active	AI1-130	75	9/7/2026
BGE	TBD 115 kV	Baltimore County	Active	AI1-131	75	9/7/2026
BGE	Northeast - Windy Edge 115 kV	Baltimore County	Active	AI1-189	110	12/31/2027
DPL	Rock Springs 500 kV	Cecil	Active	AI2-054	0	6/1/2028
DPL	Colora 230 kV	Cecil	Active	AI2-307	60.48	9/10/2026
APS	Ringgold 138 kV II	Washington	Active	AI2-311	30	1/11/2025
PEPCO	Morgantown 230 kV	Charles	Active	AI2-457	1122	10/1/2027
DPL	Bishopville – Worcester 138 kV	Worcester	Active	AJ1-018	39	12/29/2028
				Total	**3,725.4**	

D. PJM's Reliability Pricing Model

As a means of ensuring reliability of the electric system in the RTO, PJM annually conducts a long-term planning process that compares the potential available generation capacity located within the RTO and the import capability of the RTO against the estimated demand of customers within the RTO. Consequently, the model projects the amount of generation and transmission required to maintain the reliability of the electric grid within PJM. The amount of capacity procured in PJM's Reliability Pricing Model

("RPM") is roughly based upon a forecast of the peak load projected by PJM for a particular year, plus a reserve margin. The RPM works in conjunction with PJM's RTEP to ensure reliability in the PJM region for future years. Locational constraints are also identified for a delivery year in the PJM Regional Transmission Expansion Planning Process ("RTEPP") prior to each Base Residual Auction ("BRA"). Locational constraints are capacity import capability limitations that are caused by transmission facility limitations or voltage limitations. Resources in the unconstrained Locational Deliverability Areas ("LDA") (and capacity imported into constrained LDAs) are paid the Unconstrained (lower) Resource Clearing Price.

Using this information, PJM evaluates offers from resources three years in advance to be available for a one-year delivery period running from June through May (up to three years for new generation) through the BRA.[79] Once PJM completes its RTEPP and conducts the BRA, PJM is in a position to evaluate the reliability of its system. PJM must operate the transmission system to meet reliability criteria established by FERC and administered by NERC.

The Mid-Atlantic Advisory Council ("MAAC") LDA[80] has experienced significant volatility in Net Zonal Load[81] capacity prices as a result of the past 10 BRAs. The historical pattern suggests that future BRA results could vary significantly from year to year and must be closely monitored by PJM.

BGE's BRA result for the 2025/2026 Delivery Year and Pepco's BRA result for the 2026/2027 Delivery Year are both outliers with respect to each utility's set of delivery year results from 2016–2027, according to Tukey's Fences method for outlier detection.[82] As with the 2025/2026 Delivery Year, capacity prices remain high across the zones which encompass Maryland. PJM mainly attributed the continually high auction prices to increased electricity demand resultant of data center expansion, electrification, and economic growth across the Mid-Atlantic.[83]

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[79] PJM Manual 18: PJM Capacity Market, Section 1: Overview of the PJM Capacity Market Reliability Pricing Model, PJM Markets & Operations (last revised June 27, 2024), https://www.pjm.com/directory/manuals/m18/index.html#Sections/Section%201%20Overview%20of%20the%20PJM%20Capacity%20Market.html.

[80] MAAC includes the South-West MAAC ("SWMAAC") which is the zone serving central Maryland.

[81] The Zonal Net Load capacity price reflects the BRA resource clearing price and credits from any transmission capacity transfer rights.

[82] John Tukey's Fences method prescribes that an outlier is any point in a dataset that is less than a lower fence of 1.5-fold the interquartile range subtracted from the 25th percentile, or greater than an upper fence of 1.5-fold the interquartile range added to the 75th percentile.

[83] *PJM Auction Procures 134,311 MW of Generation Resources; Supply Responds to Price Signal*, PJM (July 22, 2025), https://insidelines.pjm.com/pjm-auction-procures-134311-mw-of-generation-resources-supply-responds-to-price-signal/#:~:text=At%20the%20same%20time%2C%20electricity,Supply%2FDemand%20Remains%20Tight.

Table 14: PJM BRA Capacity Prices by Zone[84]

Delivery Year	APS($/MW-day)	BGE($/MW-day)	DPL($/MW-day)	PEPCO ($/MW-day)	RTO Price ($/MW-day)
2016/2017	$59.37	$119.13	$119.13	$119.13	$59.37
2017/2018	$120.00	$120.00	$120.00	$120.00	$120.00
2018/2019	$164.77	$164.77	$225.42	$164.77	$164.77
2019/2020	$100.00	$100.30	$119.77	$100.00	$100.00
2020/2021	$76.53	$86.04	$187.87	$86.04	$76.53
2021/2022	$140.00	$200.30	$165.73	$140.00	$140.00
2022/2023	$50.00	$126.50	$97.86	$95.79	$50.00
2023/2024	$34.13	$69.95	$69.95	$49.49	$34.13
2024/2025	$28.92	$73.00	$90.64	$49.49	$28.92
2025/2026	$269.92	$466.35	$269.92	$269.92	$269.92
2026/2027	$329.17	$329.17	$329.17	$329.17	$329.17

V. Conclusion

Electricity sector planning will continue to be affected by several different issues over the next 10 years, including projections regarding Maryland utility customers, energy sales, and in-State capacity and generation profiles. Other factors that will play a significant role in the planning process will be Maryland's data center development and electrification.[85] The Maryland utilities' load forecasts indicate a significant amount of projected annual growth in energy sales and peak demand throughout the State during the 2025-2034 planning horizon.

Internally, the Commission created a work group on distribution system planning under its grid modernization proceeding, PC 44 and Case 9665. The PC 44 Distribution System Planning Work Group ("DSP WG") is reviewing the current planning processes in Maryland, related State policies, and existing utility programs that interface with distribution system planning. In Order No. 91256, the Commission ordered the DSP WG to develop and provide to the electric utilities a common framework for utility reporting on information regarding the current status of projects designed to promote State policy goals identified in PUA §7-802, including information on planning processes and implementation that promote these goals. In addition, Order No. 91256 directed the utilities to file status reports no later than November 15th of each year.

[84] *PJM RPM Auction User Information: Delivery Year*, PJM Markets & Operations (Delivery Years 2016-2027), https://www.pjm.com/markets-and-operations/rpm.aspx.

[85] FirstEnergy, Dominion Energy, American Electric Power Reach Joint Planning Agreement to Propose Regional Transmission Projects Across PJM Footprint, FirstEnergy (October 7, 2024), https://investors.firstenergycorp.com/investor-materials/news-releases/news-details/2024/FirstEnergy-Dominion-Energy-American-Electric-Power-reach-joint-planning-agreement-to-propose-regional-transmission-projects-across-PJM-footprint/default.aspx.

Order No. 91490, issued on January 21, 2025, reviewed the progress and recommendations of the DSP WG concerning the transformation of Maryland's Electric Distribution Systems and directed the Work Group to file proposed regulations consistent with the Commission's guidance on various consensus and non-consensus items, including requiring feeder-level information where system constraints exist and modernizing forecasting methodologies, on or before May 1, 2025.

Order No. 91751, issued July 28, 2025, directed Phase III of the DSP WG to consider outstanding non-consensus issues discussed during the Rule Making 89 proceeding, such as discovery procedures, uniform planning disclosures, metrics, and the definition of "System Constraints" while also appointing Samrawit Dererie as the new Work Group Leader and requiring the group to propose a staggered submission schedule for Annual Plan Updates and Preliminary Electric System Plans by November 1, 2025.

Relevant to planning of the distribution system in Maryland is the implementation of the 2024 Distribution Renewable Integrated and Vehicle Electrification ("DRIVE") Act, codified at PUA §7-1001 *et seq*. Pursuant to implementation of this Act, on July 11, 2024, the Commission issued Order No. 91218 which directed the State's investor-owned utilities to file (1) "opt-in" time-of-use ("TOU") tariff offerings; and (2) proposals for a pilot program or temporary tariff for electric distribution system support services ("EDSSS") as provided through virtual power plant ("VPP") and/or vehicle-to-grid programs. The utilities each submitted pursuant EDSSS pilot program proposals and TOU rate offerings. In Order No. 91917, issued October 21, 2025, the Commission accepted the utilities' TOU offerings with modifications, and gave the utilities an opportunity to cure defects in their EDSSS pilot proposals and resubmit their pilot proposals. This proceeding is ongoing.

On October 10, 2024, the Commission docketed PC 66 on resource adequacy. The Commission asked parties to file comments providing advice, suggestions, and innovative approaches regarding how to bring the capacity market back into equilibrium. After receiving public comments from parties in early November, the Commission set the matter for a Technical Conference, which convened on December 3, 2024.

Following the December 3, 2024 hearing, the Commission sought clarification on its existing authority from Staff and OPC. In particular, the Commission expressed a desire to address pricing and cost recovery for ratepayer-paid generation for Maryland ratepayers while being careful not to violate provisions of the Federal Power Act and Commerce Clause and interfering with the PJM wholesale market. Accordingly, the Commission requested further comments from parties on December 30, 2024 asking for such comments to be filed in the PC 66 docket by January 17, 2025. Further comments were filed by OPC, the Exelon utilities, International Brotherhood of Electrical Workers Local 410, and Staff.

In response to these and other developments, the 2025-2034 Ten-Year Plan will enable continued review and assessment of the impacts that the above-mentioned issues will have on Maryland's long-term electricity resource planning.

Appendices to the Public Service Commission of Maryland's Ten-Year Plan (2025-2034) of Electric Companies in Maryland

*Data in Appendices 1-4 was derived from the Utilities' responses to Staff's Data Requests

Appendix 1(a): Maryland Customer Forecasts

Appendix Table 1(a)(i): All Customer Classes (number of customers)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	2,754	1,351,672	222,003	11,103	17,780	293,356	612,618	180,737	2,903	1,023	**2,695,949**
2026	2,743	1,359,699	223,180	11,154	17,821	295,602	619,357	183,072	2,903	1,023	**2,716,553**
2027	2,757	1,367,521	224,160	11,204	17,862	297,903	624,750	185,361	2,903	1,023	**2,735,444**
2028	2,770	1,374,304	224,998	11,255	17,903	300,506	629,487	187,634	2,903	1,023	**2,752,782**
2029	2,784	1,380,857	225,787	11,307	17,944	303,352	633,975	189,834	2,903	1,023	**2,769,765**
2030	2,812	1,387,185	226,578	11,358	17,985	306,356	638,498	191,974	2,903	1,023	**2,786,672**
2031	2,840	1,383,328	227,372	11,410	18,026	309,349	643,055	194,050	2,903	1,023	**2,793,356**
2032	2,869	1,388,583	228,170	11,462	18,067	312,247	647,646	196,075	2,903	1,023	**2,809,043**
2033	2,897	1,393,759	228,970	11,514	18,109	315,063	652,272	198,035	2,903	1,023	**2,824,544**
2034	2,926	1,398,496	229,773	11,566	18,150	317,689	656,932	199,972	2,903	1,023	**2,839,430**
Change (2025-2034)	**172**	**46,823**	**7,770**	**463**	**370**	**24,333**	**44,314**	**19,235**	**0**	**0**	**143,481**
Percent Change (2025-2034)	**6.26%**	**3.46%**	**3.50%**	**4.17%**	**2.08%**	**8.29%**	**7.23%**	**10.64%**	**0.00%**	**0.00%**	**5.32%**
Compound Annual Growth Rate	**0.68%**	**0.38%**	**0.38%**	**0.45%**	**0.23%**	**0.89%**	**0.78%**	**1.13%**	**0.00%**	**0.00%**	**0.58%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.

Appendix Table 1(a)(ii): Residential (number of customers)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	2,267	1,222,774	187,671	8,686	14,900	258,393	561,420	164,121	2,520	861	**2,423,613**
2026	2,267	1,230,504	188,676	8,730	14,937	260,380	568,098	166,229	2,520	861	**2,443,202**
2027	2,278	1,238,028	189,512	8,775	14,975	262,429	573,435	168,271	2,520	861	**2,461,084**
2028	2,290	1,244,514	190,224	8,819	15,012	264,756	578,107	170,294	2,520	861	**2,477,396**
2029	2,301	1,250,769	190,893	8,864	15,050	267,302	582,527	172,249	2,520	861	**2,493,335**
2030	2,324	1,256,800	191,563	8,909	15,087	269,987	586,981	174,154	2,520	861	**2,509,187**
2031	2,347	1,252,645	192,237	8,955	15,125	272,659	591,469	176,008	2,520	861	**2,514,825**
2032	2,371	1,257,601	192,912	9,000	15,163	275,242	595,991	177,824	2,520	861	**2,529,485**
2033	2,395	1,262,479	193,590	9,046	15,201	277,749	600,548	179,596	2,520	861	**2,543,985**
2034	2,419	1,266,917	194,271	9,092	15,239	280,088	605,140	181,351	2,520	861	**2,557,897**
Change (2025-2034)	**152**	**44,143**	**6,600**	**406**	**339**	**21,695**	**43,720**	**17,229**	**0**	**0**	**134,284**
Percent Change (2025-2034)	**6.69%**	**3.61%**	**3.52%**	**4.67%**	**2.27%**	**8.40%**	**7.79%**	**10.50%**	**0.00%**	**0.00%**	**5.54%**
Compound Annual Growth Rate	**0.72%**	**0.39%**	**0.38%**	**0.51%**	**0.25%**	**0.90%**	**0.84%**	**1.12%**	**0.00%**	**0.00%**	**0.60%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.

Appendix 1(a) (Continued): Maryland Customer Forecasts

Appendix Table 1(a)(iii): Commercial (number of customers)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	312	115,387	29,922	2,417	2,800	32,127	49,974	16,071	339	146	**249,496**
2026	312	115,514	30,089	2,424	2,804	32,397	50,040	16,299	339	146	**250,363**
2027	314	115,640	30,229	2,430	2,807	32,660	50,101	16,546	339	146	**251,211**
2028	315	115,767	30,350	2,436	2,811	32,944	50,171	16,796	339	146	**252,075**
2029	317	115,894	30,466	2,442	2,814	33,252	50,244	17,042	339	146	**252,955**
2030	320	116,020	30,582	2,449	2,818	33,578	50,318	17,276	339	146	**253,846**
2031	323	116,147	30,699	2,455	2,821	33,907	50,391	17,498	339	146	**254,726**
2032	326	116,273	30,816	2,461	2,825	34,228	50,465	17,707	339	146	**255,586**
2033	330	116,400	30,934	2,468	2,828	34,540	50,539	17,895	339	146	**256,419**
2034	333	116,527	31,052	2,474	2,832	34,833	50,613	18,077	339	146	**257,225**
Change (2025-2034)	**21**	**1,140**	**1,130**	**57**	**32**	**2,706**	**639**	**2,006**	**0**	**0**	**7,729**
Percent Change (2025-2034)	**6.69 %**	**0.99%**	**3.78 %**	**2.36%**	**1.13%**	**8.42 %**	**1.28 %**	**12.48%**	**0.00%**	**0.00%**	**3.10%**
Compound Annual Growth Rate	**0.72 %**	**0.11%**	**0.41 %**	**0.26%**	**0.12%**	**0.90 %**	**0.14 %**	**1.32%**	**0.00%**	**0.00%**	**0.34%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.

Appendix Table 1(a)(iv): Industrial (number of customers)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	148	13,253	544	N/A	80	2,541	N/A	7	9	8	**16,590**
2026	136	13,426	549	N/A	80	2,530	N/A	7	9	8	**16,745**
2027	137	13,598	554	N/A	80	2,520	N/A	7	9	8	**16,912**
2028	137	13,771	558	N/A	80	2,511	N/A	7	9	8	**17,081**
2029	138	13,944	563	N/A	80	2,502	N/A	7	9	8	**17,251**
2030	139	14,116	567	N/A	80	2,495	N/A	7	9	8	**17,422**
2031	141	14,289	571	N/A	80	2,489	N/A	7	9	8	**17,594**
2032	142	14,462	575	N/A	80	2,483	N/A	7	9	8	**17,766**
2033	144	14,634	580	N/A	80	2,478	N/A	7	9	8	**17,940**
2034	145	14,807	584	N/A	80	2,474	N/A	7	9	8	**18,114**
Change (2025-2034)	**(3)**	**1,554**	**40**	**0**	**0**	**(68)**	**0**	**0**	**0**	**0**	**1,523**
Percent Change (2025-2034)	**-1.85 %**	**11.73 %**	**7.33 %**	**N/A**	**0.00%**	**-2.66 %**	**N/A**	**0.00%**	**0.00%**	**0.00%**	**9.18 %**
Compound Annual Growth Rate	**-0.21 %**	**1.24%**	**0.79 %**	**N/A**	**0.00%**	**-0.30 %**	**N/A**	**0.00%**	**0.00%**	**0.00%**	**0.98 %**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.

Appendix 1(a) (Continued): Maryland Customer Forecasts

Appendix 1(a) (Continued): Maryland Customer Forecasts

Appendix Table 1(a)(v): Other (number of customers)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	27	258	3,866	N/A	N/A	292	1,224	537	35	8	**6,247**
2026	28	256	3,866	N/A	N/A	292	1,219	537	35	8	**6,241**
2027	28	254	3,866	N/A	N/A	292	1,214	537	35	8	**6,234**
2028	28	252	3,866	N/A	N/A	292	1,209	537	35	8	**6,227**
2029	28	251	3,866	N/A	N/A	292	1,204	537	35	8	**6,221**
2030	29	249	3,866	N/A	N/A	292	1,199	537	35	8	**6,215**
2031	29	248	3,866	N/A	N/A	292	1,194	537	35	8	**6,209**
2032	29	247	3,866	N/A	N/A	292	1,189	537	35	8	**6,203**
2033	29	246	3,866	N/A	N/A	292	1,184	537	35	8	**6,197**
2034	30	244	3,866	N/A	N/A	292	1,179	537	35	8	**6,191**
Change (2025-2034)	**3**	**(14)**	**0**	**0**	**0**	**0**	**(45)**	**0**	**0**	**0**	**(56)**
Percent Change (2025-2034)	**9.98 %**	**5.30 %**	**0.00 %**	**N/A**	**N/A**	**0.00 %**	**3.64 %**	**0.00%**	**0.00%**	**0.00%**	**0.89 %**
Compound Annual Growth Rate	**1.06 %**	**0.60 %**	**0.00 %**	**N/A**	**N/A**	**0.00 %**	**0.41 %**	**0.00%**	**0.00%**	**0.00%**	**0.10 %**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.
Note: The "Other" rate class refers to customers that do not fall into one of the listed classes, for example street lighting.

Appendix Table 1(a)(vi): Resale (number of customers)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	N/A	0	0	N/A	N/A	3	N/A	N/A	N/A	N/A	**3**
2026	N/A	0	0	N/A	N/A	3	N/A	N/A	N/A	N/A	**3**
2027	N/A	0	0	N/A	N/A	3	N/A	N/A	N/A	N/A	**3**
2028	N/A	0	0	N/A	N/A	3	N/A	N/A	N/A	N/A	**3**
2029	N/A	0	0	N/A	N/A	3	N/A	N/A	N/A	N/A	**3**
2030	N/A	0	0	N/A	N/A	3	N/A	N/A	N/A	N/A	**3**
2031	N/A	0	0	N/A	N/A	3	N/A	N/A	N/A	N/A	**3**
2032	N/A	0	0	N/A	N/A	3	N/A	N/A	N/A	N/A	**3**
2033	N/A	0	0	N/A	N/A	3	N/A	N/A	N/A	N/A	**3**
2034	N/A	0	0	N/A	N/A	3	N/A	N/A	N/A	N/A	**3**
Change (2025-2034)	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**N/A**	**N/A**	**N/A**	**0**
Percent Change (2025-2034)	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**0.00 %**	**N/A**	**N/A**	**N/A**	**N/A**	**0.00 %**
Compound Annual Growth Rate	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**0.00 %**	**N/A**	**N/A**	**N/A**	**N/A**	**0.00 %**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.
Note: The "Resale" class refers to "Sales for Resale," which is energy supplied to other electric utilities, cooperatives, municipalities, and federal and state electric agencies for resale to end-use consumers. PE is the only utility with any resale customers.

Appendix 1(b): 2024 Customer Numbers and Energy Sales

Appendix Table 1(b)(i): Customer Class Breakdown as of December 31, 2024 (number of customers)

	System Wide						Maryland					
Utility	**Residential**	**Com-mercial**	**In-dustrial**	**Other**	**Sales for Resale**	**Total**	**Resi-dential**	**Com-mercial**	**In-dustrial**	**Other**	**Sales for Resale**	**Total**
Berlin	2,266	320	139	27	-	**2,752**	2,266	320	139	27	-	**2,752**
BGE	1,214,100	115,309	13,087	260	-	**1,342,757**	1,214,100	115,309	13,087	260	-	**1,342,757**
DPL	488,409	65,541	242	597	-	**554,789**	186,368	28,348	135	260	-	**215,111**
Easton	8,590	2,400	-	-	-	**10,990**	8,590	2,400	-	-	-	**10,990**
Hagers-town	15,099	2,592	52	-	-	**17,742**	15,099	2,592	52	-	-	**17,742**
PE	391,842	50,833	4,328	591	5	**447,598**	256,487	31,394	2,536	294	3	**290,714**
PEPCO	872,387	78,116	N/A	207	N/A	**950,710**	553,607	50,624	N/A	177	N/A	**604,408**
SMECO	160,882	15,738	7	528	N/A	**177,154**	160,882	15,738	7	528	N/A	**177,154**
Thurmont	2,522	343	9	35	N/A	**2,909**	2,522	343	9	35	N/A	**2,909**
William-sport	861	147	8	8	N/A	**1,024**	861	147	8	8	N/A	**1,024**
Total	**3,156,957**	**331,338**	**17,872**	**2,254**	**5**	**3,508,426**	**2,400,781**	**247,215**	**15,973**	**1,590**	**3**	**2,665,562**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.
Note: "System wide" includes the entire distribution system of a utility, which may extend beyond the Maryland service territory into Washington, D.C.; Delaware; and parts of West Virginia. The affected utilities include DPL, PE, and Pepco.

Appendix Table 1(b)(ii): Utilities' 2024 Energy Sales by Customer Class (GWh)

	System Wide						Maryland					
Utility	**Resi-dential**	**Com-mercial**	**In-dustrial**	**Other**	**Sales for Resale**	**Total**	**Resi-dential**	**Com-mercial**	**In-dustrial**	**Other**	**Sales for Resale**	**Total**
Berlin	27	3	15	0	-	**46**	27	3	15	0	-	**46**
BGE	12,740	2,755	13,077	203	-	**28,776**	12,740	2,755	13,077	203	-	**28,776**
DPL	5,281	5,127	1,344	43	-	**11,795**	2,112	1,682	332	11	-	**4,137**
Easton	107	132	-	-	-	**239**	107	132	-	-	-	**239**
Hagers-town	165	86	68	-	-	**319**	165	86	68	-	-	**319**
PE	5,230	2,877	2,306	21	42	**10,476**	3,298	2,058	1,315	15	10	**6,697**
PEPCO	7,928	14,896	-	78	-	**22,902**	5,478	7,571	-	57	-	**13,106**
SMECO	2,197	1,194	35	7	-	**3,434**	2,197	1,194	35	7	-	**3,434**
Thurmont	36	15	20	1	-	**72**	36	15	20	1	-	**72**
William-sport	9	3	6	0	-	**19**	9	3	6	0	-	**19**
Total	**33,722**	**27,089**	**16,872**	**353**	**42**	**78,079**	**26,171**	**15,500**	**14,869**	**294**	**10**	**56,845**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.
Note: "System wide" includes the entire distribution system of a utility, which may extend beyond the Maryland service territory into Washington, D.C.; Delaware; and parts of West Virginia. The affected utilities include DPL, PE, and Pepco.

Appendix 2(a): Energy Sales Forecast by Utility (Maryland Service Territory Only)

Appendix Table 2(a)(i): Maryland Energy Sales Forecast, Gross of DSM (GWh)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	50	29,480	4,275	241	315	8,926	13,674	3,503	74	20	**60,558**
2026	50	29,664	4,261	242	316	12,818	13,618	3,537	74	20	**64,599**
2027	50	29,283	4,250	243	317	16,308	13,572	3,608	74	20	**67,724**
2028	50	29,659	4,242	244	317	16,573	13,567	3,653	74	20	**68,400**
2029	51	29,992	4,246	262	318	16,860	13,593	3,697	74	20	**69,113**
2030	51	30,644	4,251	263	319	17,251	13,619	3,754	74	20	**70,246**
2031	52	31,286	4,255	265	320	17,566	13,645	3,797	74	20	**71,280**
2032	52	32,013	4,260	266	321	17,903	13,671	3,841	74	20	**72,421**
2033	53	32,588	4,264	267	321	18,215	13,697	3,872	74	20	**73,372**
2034	53	33,166	4,268	268	322	18,571	13,723	3,900	74	20	**74,366**
Change (2025-2034)	**4**	**3,686**	**(7)**	**28**	**7**	**9,644**	**49**	**398**	**-**	**-**	**13,809**
Percent Change (2025-2034)	**7.22 %**	**12.50 %**	**0.16 %**	**11.58 %**	**2.27%**	**108.04 %**	**0.36 %**	**11.35%**	**0.00%**	**0.00%**	**22.80 %**
Compound Annual Growth Rate	**0.78 %**	**1.32%**	**0.02 %**	**1.22%**	**0.25%**	**8.48%**	**0.04 %**	**1.20%**	**0.00%**	**0.00%**	**2.31%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.

Appendix Table 2(a)(ii): Maryland Energy Sales Forecast, Net of DSM (GWh)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	50	28,866	4,183	241	315	7,450	13,337	3,445	74	20	**57,979**
2026	50	29,021	4,169	242	316	11,220	13,280	3,478	74	20	**61,870**
2027	50	29,283	4,157	243	317	14,573	13,234	3,550	74	20	**65,500**
2028	50	29,659	4,150	244	317	14,703	13,229	3,595	74	20	**66,042**
2029	51	29,992	4,154	262	318	14,857	13,255	3,639	74	20	**66,621**
2030	51	30,644	4,158	263	319	15,113	13,281	3,696	74	20	**67,619**
2031	52	31,286	4,163	265	320	15,293	13,307	3,739	74	20	**68,518**
2032	52	32,013	4,167	266	321	15,496	13,333	3,783	74	20	**69,525**
2033	53	32,588	4,171	267	321	15,674	13,359	3,814	74	20	**70,342**
2034	53	33,166	4,176	268	322	15,895	13,385	3,842	74	20	**71,202**
Change (2025-2034)	**4**	**4,300**	**(7)**	**28**	**7**	**8,445**	**49**	**398**	**-**	**-**	**13,223**
Percent Change (2025-2034)	**7.22 %**	**14.90 %**	**0.17 %**	**11.58 %**	**2.27%**	**113.36 %**	**0.36 %**	**11.54%**	**0.00%**	**0.00%**	**22.81 %**
Compound Annual Growth Rate	**0.78 %**	**1.55%**	**0.02 %**	**1.22%**	**0.25%**	**8.78%**	**0.04 %**	**1.22%**	**0.00%**	**0.00%**	**2.31%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.

Appendix 2(b): Energy Sales Forecast by Utility (System Wide)

Appendix Table 2(b)(i): System Wide Energy Sales Forecast, Gross of DSM (GWh)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	50	29,480	12,035	241	315	16,773	23,783	3,503	74	20	**86,273**
2026	50	29,664	12,011	242	316	20,903	23,655	3,537	74	20	**90,471**
2027	50	29,283	12,008	243	317	24,480	23,472	3,608	74	20	**93,554**
2028	50	29,659	12,035	244	317	24,844	23,299	3,653	74	20	**94,196**
2029	51	29,992	12,106	262	318	25,211	23,149	3,697	74	20	**94,880**
2030	51	30,644	12,178	263	319	25,693	23,003	3,754	74	20	**95,999**
2031	52	31,286	12,251	265	320	26,090	22,860	3,797	74	20	**97,014**
2032	52	32,013	12,324	266	321	26,516	22,720	3,841	74	20	**98,146**
2033	53	32,588	12,398	267	321	26,901	22,583	3,872	74	20	**99,077**
2034	53	33,166	12,472	268	322	27,339	22,449	3,900	74	20	**100,064**
Change (2025-2034)	**4**	**3,686**	**437**	**28**	**7**	**10,566**	**(1,334)**	**398**	**-**	**-**	**13,791**
Percent Change (2025-2034)	**7.22%**	**12.50%**	**3.63%**	**11.58%**	**2.27%**	**62.99%**	**5.61%**	**11.35%**	**0.00%**	**0.00%**	**15.99%**
Compound Annual Growth Rate	**0.78%**	**1.32%**	**0.40%**	**1.22%**	**0.25%**	**5.58%**	**0.64%**	**1.20%**	**0.00%**	**0.00%**	**1.66%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.
Note: "System wide" includes the entire distribution system of a utility, which may extend beyond the Maryland service territory into Washington, D.C., Delaware, and parts of West Virginia. The affected utilities include DPL, PE, and Pepco.

Appendix Table 2(b)(ii): System Wide Energy Sales Forecast, Net of DSM (GWh)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	50	28,866	11,943	241	315	15,236	23,445	3,445	74	20	**83,634**
2026	50	29,021	11,919	242	316	19,244	23,317	3,478	74	20	**87,681**
2027	50	29,283	11,915	243	317	22,684	23,134	3,550	74	20	**91,270**
2028	50	29,659	11,942	244	317	22,914	22,960	3,595	74	20	**91,777**
2029	51	29,992	12,014	262	318	23,146	22,811	3,639	74	20	**92,326**
2030	51	30,644	12,086	263	319	23,494	22,665	3,696	74	20	**93,311**
2031	52	31,286	12,158	265	320	23,756	22,522	3,739	74	20	**94,192**
2032	52	32,013	12,231	266	321	24,048	22,382	3,783	74	20	**95,190**
2033	53	32,588	12,305	267	321	24,298	22,245	3,814	74	20	**95,986**
2034	53	33,166	12,379	268	322	24,603	22,111	3,842	74	20	**96,839**
Change (2025-2034)	**4**	**4,300**	**437**	**28**	**7**	**9,367**	**(1,335)**	**398**	**-**	**-**	**13,205**
Percent Change (2025-2034)	**7.22%**	**14.90%**	**3.66%**	**11.58%**	**2.27%**	**61.48%**	**5.69%**	**11.54%**	**0.00%**	**0.00%**	**15.79%**

Appendix 1(a) (Continued): Maryland Customer Forecasts

Compound Annual Growth Rate	**0.78 %**	**1.55%**	**0.40 %**	**1.22%**	**0.25%**	**5.47%**	**0.65%**	**1.22%**	**0.00%**	**0.00%**	**1.64%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.

Note: "System wide" includes the entire distribution system of a utility, which may extend beyond the Maryland service territory into Washington, D.C.; Delaware; and parts of West Virginia. The affected utilities include DPL, PE, and Pepco.

Appendix 3(a): Peak Demand Forecasts (Maryland Service Territory Only)

Appendix Table 3(a)(i): Maryland Summer, Gross of DSM Programs (MW)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	11	7,040	1,034	59	62	1,689	3,630	933	15	4	**14,476**
2026	11	7,066	1,033	59	62	2,577	3,644	946	15	4	**15,416**
2027	12	6,947	1,032	59	62	2,940	3,653	960	15	4	**15,683**
2028	12	6,966	1,032	60	62	2,998	3,662	972	15	4	**15,781**
2029	12	7,021	1,033	64	63	3,061	3,673	984	15	4	**15,928**
2030	12	7,053	1,033	64	63	3,134	3,682	996	15	4	**16,054**
2031	12	7,099	1,035	65	63	3,200	3,695	1,007	15	4	**16,192**
2032	12	7,158	1,037	65	63	3,271	3,709	1,018	15	4	**16,351**
2033	12	7,234	1,041	65	63	3,335	3,723	1,028	15	4	**16,519**
2034	12	7,298	1,045	66	63	3,409	3,738	1,037	15	4	**16,686**
Change (2025-2034)	**1**	**258**	**11**	**7**	**1**	**1,720**	**108**	**104**	**-**	**-**	**2,211**
Percent Change (2025-2034)	**7.75 %**	**3.67 %**	**1.06 %**	**11.58 %**	**2.27%**	**101.86 %**	**2.99 %**	**11.15%**	**0.00%**	**0.00%**	**15.27 %**
Compound Annual Growth Rate	**0.83 %**	**0.40 %**	**0.12 %**	**1.23%**	**0.25%**	**8.12%**	**0.33 %**	**1.18%**	**0.00%**	**0.00%**	**1.59%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.

Appendix Table 3(a)(ii): Maryland Summer, Net of DSM Programs (MW)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	6	6,544	956	59	62	1,441	3,209	871	15	4	**13,166**
2026	6	6,547	955	59	62	2,300	3,222	884	15	4	**14,053**
2027	6	6,565	953	59	62	2,628	3,232	898	15	4	**14,423**
2028	6	6,584	953	60	62	2,653	3,241	910	15	4	**14,487**
2029	6	6,639	954	64	63	2,683	3,251	922	15	4	**14,601**
2030	6	6,671	955	64	63	2,723	3,260	934	15	4	**14,694**
2031	6	6,717	956	65	63	2,755	3,273	945	15	4	**14,799**
2032	6	6,776	959	65	63	2,793	3,287	956	15	4	**14,924**
2033	7	6,852	963	65	63	2,824	3,301	966	15	4	**15,059**
2034	7	6,916	967	66	63	2,865	3,316	975	15	4	**15,193**
Change (2025-2034)	**1**	**372**	**11**	**7**	**1**	**1,424**	**108**	**104**	**-**	**-**	**2,027**
Percent Change (2025-2034)	**15.38 %**	**5.68 %**	**1.10 %**	**11.58 %**	**2.27%**	**98.82 %**	**3.36 %**	**11.94%**	**0.00%**	**0.00%**	**15.40 %**
Compound Annual Growth Rate	**1.60%**	**0.62 %**	**0.12 %**	**1.23%**	**0.25%**	**7.94%**	**0.37 %**	**1.26%**	**0.00%**	**0.00%**	**1.60%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.

Appendix 3(a) (Continued): Peak Demand Forecasts (Maryland Service Territory Only)

Appendix Table 3(a)(iii): Maryland Winter, Gross of DSM Programs (MW)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	16	5,962	1,000	56	70	1,733	2,624	1,036	22	5	**12,524**
2026	16	5,993	1,008	56	71	2,794	2,642	976	22	5	**13,583**
2027	16	5,960	1,016	56	71	2,949	2,657	960	22	5	**13,713**
2028	16	6,016	1,025	56	72	3,021	2,683	976	22	5	**13,893**
2029	16	6,060	1,027	61	73	3,109	2,685	993	22	5	**14,052**
2030	16	6,124	1,032	61	74	3,185	2,698	1,008	22	5	**14,225**
2031	17	6,199	1,037	61	74	3,258	2,719	1,022	22	5	**14,415**
2032	17	6,283	1,045	62	75	3,341	2,737	1,035	22	5	**14,622**
2033	17	6,360	1,050	62	76	3,417	2,750	1,046	22	5	**14,805**
2034	17	6,415	1,054	62	77	3,506	2,761	1,057	22	5	**14,977**
Change (2025-2034)	**1**	**453**	**54**	**7**	**7**	**1,773**	**138**	**21**	**-**	**-**	**2,453**
Percent Change (2025-2034)	**7.75 %**	**7.59 %**	**5.39 %**	**11.87 %**	**9.37%**	**102.32 %**	**5.25 %**	**2.02%**	**0.00%**	**0.00%**	**19.58 %**
Compound Annual Growth Rate	**0.83 %**	**0.82 %**	**0.58 %**	**1.25%**	**1.00%**	**8.14%**	**0.57 %**	**0.22%**	**0.00%**	**0.00%**	**2.01%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.

Appendix Table 3(a)(iv): Maryland Winter, Net of DSM Programs (MW)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	16	5,897	1,000	56	70	1,495	2,624	1,036	22	5	**12,221**
2026	16	5,928	1,008	56	71	2,527	2,642	976	22	5	**13,252**
2027	16	5,960	1,016	56	71	2,650	2,657	960	22	5	**13,414**
2028	16	6,016	1,025	56	72	2,691	2,683	976	22	5	**13,563**
2029	16	6,060	1,027	61	73	2,747	2,685	993	22	5	**13,690**
2030	16	6,124	1,032	61	74	2,791	2,698	1,008	22	5	**13,832**
2031	17	6,199	1,037	61	74	2,833	2,719	1,022	22	5	**13,990**
2032	17	6,283	1,045	62	75	2,883	2,737	1,035	22	5	**14,165**
2033	17	6,360	1,050	62	76	2,928	2,750	1,046	22	5	**14,316**
2034	17	6,415	1,054	62	77	2,985	2,761	1,057	22	5	**14,456**
Change (2025-2034)	**1**	**518**	**54**	**7**	**7**	**1,490**	**138**	**21**	**-**	**-**	**2,235**
Percent Change (2025-2034)	**7.75 %**	**8.78 %**	**5.39 %**	**11.87 %**	**9.37%**	**99.68 %**	**5.25 %**	**2.02%**	**0.00%**	**0.00%**	**18.29 %**
Compound Annual Growth Rate	**0.83 %**	**0.94 %**	**0.58 %**	**1.25%**	**1.00%**	**7.99%**	**0.57 %**	**0.22%**	**0.00%**	**0.00%**	**1.88%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.

Appendix 3(b): Peak Demand Forecasts (System Wide)

Appendix Table 3(b)(i): System Wide Summer, Gross of DSM (MW)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	11	7,040	4,083	59	62	3,098	6,490	933	15	4	**21,793**
2026	11	7,066	4,075	59	62	3,966	6,517	946	15	4	**22,721**
2027	12	6,947	4,070	59	62	4,368	6,535	960	15	4	**23,030**
2028	12	6,966	4,070	60	62	4,434	6,552	972	15	4	**23,145**
2029	12	7,021	4,074	64	63	4,504	6,572	984	15	4	**23,311**
2030	12	7,053	4,075	64	63	4,583	6,589	996	15	4	**23,453**
2031	12	7,099	4,083	65	63	4,654	6,613	1,007	15	4	**23,613**
2032	12	7,158	4,092	65	63	4,732	6,640	1,018	15	4	**23,798**
2033	12	7,234	4,109	65	63	4,800	6,666	1,028	15	4	**23,995**
2034	12	7,298	4,127	66	63	4,879	6,695	1,037	15	4	**24,195**
Change (2025-2034)	**1**	**258**	**44**	**7**	**1**	**1,781**	**205**	**104**	**-**	**-**	**2,401**
Percent Change (2025-2034)	**7.75 %**	**3.67 %**	**1.09 %**	**11.58 %**	**2.27%**	**57.50 %**	**3.15 %**	**11.15%**	**0.00%**	**0.00%**	**11.02 %**
Compound Annual Growth Rate	**0.83 %**	**0.40 %**	**0.12 %**	**1.23%**	**0.25%**	**5.18%**	**0.35 %**	**1.18%**	**0.00%**	**0.00%**	**1.17%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.
Note: "System wide" includes the entire distribution system of a utility, which may extend beyond the Maryland service territory into Washington, D.C.; Delaware; and parts of West Virginia. The affected utilities include DPL, PE, and Pepco.

Appendix Table 3(b)(ii): System Wide Summer, Net of DSM (MW)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	6	6,544	4,005	59	62	2,842	6,069	871	15	4	**20,476**
2026	6	6,547	3,997	59	62	3,680	6,095	884	15	4	**21,349**
2027	6	6,565	3,992	59	62	4,048	6,113	898	15	4	**21,762**
2028	6	6,584	3,992	60	62	4,081	6,130	910	15	4	**21,844**
2029	6	6,639	3,996	64	63	4,118	6,150	922	15	4	**21,976**
2030	6	6,671	3,997	64	63	4,164	6,167	934	15	4	**22,085**
2031	6	6,717	4,005	65	63	4,202	6,191	945	15	4	**22,212**
2032	6	6,776	4,014	65	63	4,246	6,218	956	15	4	**22,363**
2033	7	6,852	4,031	65	63	4,280	6,244	966	15	4	**22,527**
2034	7	6,916	4,049	66	63	4,326	6,273	975	15	4	**22,693**
Change (2025-2034)	**1**	**372**	**44**	**7**	**1**	**1,485**	**204**	**104**	**-**	**-**	**2,218**
Percent Change (2025-2034)	**15.38 %**	**5.68 %**	**1.10 %**	**11.58 %**	**2.27%**	**52.25 %**	**3.36 %**	**11.94%**	**0.00%**	**0.00%**	**10.83 %**
Compound Annual Growth Rate	**1.60%**	**0.62 %**	**0.12 %**	**1.23%**	**0.25%**	**4.78%**	**0.37 %**	**1.26%**	**0.00%**	**0.00%**	**1.15%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.
Note: "System wide" includes the entire distribution system of a utility, which may extend beyond the Maryland service territory into Washington, D.C.; Delaware; and parts of West Virginia. The affected utilities include DPL, PE, and Pepco.

Appendix 3(b) (Continued): Peak Demand Forecasts (System Wide)

Appendix Table 3(b)(iii): System Wide Winter, Gross of DSM (MW)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	16	5,962	3,731	56	70	3,449	5,389	1,036	22	5	**19,736**
2026	16	5,993	3,760	56	71	4,498	5,427	976	22	5	**20,824**
2027	16	5,960	3,789	56	71	4,700	5,458	960	22	5	**21,038**
2028	16	6,016	3,823	56	72	4,787	5,511	976	22	5	**21,285**
2029	16	6,060	3,831	61	73	4,888	5,516	993	22	5	**21,465**
2030	16	6,124	3,848	61	74	4,976	5,542	1,008	22	5	**21,676**
2031	17	6,199	3,869	61	74	5,060	5,585	1,022	22	5	**21,915**
2032	17	6,283	3,899	62	75	5,153	5,623	1,035	22	5	**22,174**
2033	17	6,360	3,916	62	76	5,238	5,648	1,046	22	5	**22,390**
2034	17	6,415	3,932	62	77	5,338	5,672	1,057	22	5	**22,598**
Change (2025-2034)	**1**	**453**	**201**	**7**	**7**	**1,890**	**283**	**21**	**-**	**-**	**2,862**
Percent Change (2025-2034)	**7.75 %**	**7.59 %**	**5.39 %**	**11.87 %**	**9.37%**	**54.79 %**	**5.25 %**	**2.02%**	**0.00%**	**0.00%**	**14.50 %**
Compound Annual Growth Rate	**0.83 %**	**0.82 %**	**0.58 %**	**1.25%**	**1.00%**	**4.97%**	**0.57 %**	**0.22%**	**0.00%**	**0.00%**	**1.52%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.
Note: "System wide" includes the entire distribution system of a utility, which may extend beyond the Maryland service territory into Washington, D.C.; Delaware; and parts of West Virginia. The affected utilities include DPL, PE, and Pepco.

Appendix Table 3(b)(iv): System Wide Winter, Net of DSM (MW)

Year	Berlin	BGE	DPL	Easton	Hagerstown	PE	Pepco	SMECO	Thurmont	Williamsport	Total
2025	16	5,897	3,731	56	70	3,203	5,389	1,036	22	5	**19,425**
2026	16	5,928	3,760	56	71	4,223	5,427	976	22	5	**20,484**
2027	16	5,960	3,789	56	71	4,394	5,458	960	22	5	**20,732**
2028	16	6,016	3,823	56	72	4,449	5,511	976	22	5	**20,947**
2029	16	6,060	3,831	61	73	4,517	5,516	993	22	5	**21,095**
2030	16	6,124	3,848	61	74	4,574	5,542	1,008	22	5	**21,274**
2031	17	6,199	3,869	61	74	4,627	5,585	1,022	22	5	**21,481**
2032	17	6,283	3,899	62	75	4,688	5,623	1,035	22	5	**21,709**
2033	17	6,360	3,916	62	76	4,741	5,648	1,046	22	5	**21,893**
2034	17	6,415	3,932	62	77	4,810	5,672	1,057	22	5	**22,069**
Change (2025-2034)	**1**	**518**	**201**	**7**	**7**	**1,607**	**283**	**21**	**-**	**-**	**2,644**
Percent Change (2025-2034)	**7.75 %**	**8.78 %**	**5.39 %**	**11.87 %**	**9.37%**	**50.16 %**	**5.25 %**	**2.02%**	**0.00%**	**0.00%**	**13.61 %**
Compound Annual Growth Rate	**0.83 %**	**0.94 %**	**0.58 %**	**1.25%**	**1.00%**	**4.62%**	**0.57 %**	**0.22%**	**0.00%**	**0.00%**	**1.43%**

Note: A&N, Choptank, and Somerset did not report applicable information for this table.
Note: "System wide" includes the entire distribution system of a utility, which may extend beyond the Maryland service territory into Washington, D.C.; Delaware; and parts of West Virginia. The affected utilities include DPL, PE, and Pepco.

Appendix 4: Transmission Enhancements, by Service Territory

								Start location		End Location	
Transmission Owner	**Voltage (kV)**	**Length (miles)**	**No. of Circuits**	**Start Date**	**Comp. Date**	**In-Service Date**	**Purpose**	**County**	**Terminal**	**County**	**Terminal**
BGE	115	20.7	2	Jul-05	Jun-25	Jun-25	Aging Infrastructure	Harford	Five Forks	Baltimore	Windy Edge
DPL	138	13.73	1	Jul-05	Dec-24	Dec-24	Capacity Expansion	Dorchester, MD	Vienna	Sussex, DE	Nelson
DPL	69	19.2	1	Jul-05	Dec-24	Dec-24	Aging Infrastructure	Dorchester, MD	Vienna	Dorchester, MD	West Cambridge
PE	138	3.2	1	Jul-05	Jul-05	Jul-05	Baseline Transmission Reliability	Allegany	Messick Road	Mineral	Ridgeley (WV)
PE	138	17.7	1	Jul-05	Jul-05	Jul-05	Baseline Transmission Reliability	Allegany	Messick Road	Morgan	Morgan (WV)
PE	138	0.1	2	Jul-05	Jul-05	Jul-05	Accommodate for Generator Interconnection	Allegany	Dans Mountain (new)	Allegany	Carlos Junction-Ridgeley (WV)
PE	230	0	1	Jul-05	Suspended	Suspended	Baseline Transmission Reliability	Washington	Ringgold	Washington	Ringgold
PE	230	0	1	Jul-05	Suspended	Suspended	Baseline Transmission Reliability	Frederick	Catoctin	Frederick	Catoctin
PE	230	9.7	1	Jul-05	Suspended	Suspended	Baseline Transmission Reliability	Washington	Ringgold	Frederick	Catoctin
PE	500	0.1	1	Jul-05	Jul-05	Jul-05	Baseline Transmission Reliability	Frederick	Doubs	York (PA)	Otter Creek PPL (PA)
PE	230	11.1	2	Jul-05	Jul-05	Jul-05	Baseline Transmission Reliability	Adams (PA)	Hunterstown	Carroll	Carroll
PE	138	2.6	1	Jul-05	Jul-05	Jul-05	Baseline Transmission Reliability	Frederick	Doubs	Jefferson	Millville (WV)
PE	138	0.1	1	Jul-05	Jul-05	Jul-05	Accommodate for Generator Interconnection	Preston	Albright (WV)	Mineral	Cross School

Appendix 4: Transmission Enhancements, by Service Territory

PE	230	0.1	1	Jul-05	Jul-05	Jul-05	Baseline Transmission Reliability	Frederick	Doubs	Frederick	Lime Kiln 231
PE	230	0.1	1	Jul-05	Jul-05	Jul-05	Baseline Transmission Reliability	Frederick	Doubs	Frederick	Lime Kiln 231
PE	230	3.4	1	Jul-05	Jul-05	Jul-05	Baseline Transmission Reliability	Frederick	Doubs	Frederick	Lime Kiln 207
PE	230	0.1	1	Jul-05	Jul-05	Jul-05	Baseline Transmission Reliability	Frederick	Doubs	Frederick	Lime Kiln 207
PE	230	5	1	Jul-05	Jul-05	Jul-05	Baseline Transmission Reliability	Montgomery	Damascus	Montgomery	Montgomery
PE	138	0.3	1	Jul-05	Jul-05	Jul-05	Baseline Transmission Reliability	Allegany	Black Oak	Hampshire (WV)	Junction (WV)
PE	500, 138	3.8	2	Jul-05	Jul-05	Jul-05	Baseline Transmission Reliability	Frederick	Doubs	Jefferson (WV)	Millville (WV)
PE	765	3	1	Jul-05	Jul-05	Jul-05	Baseline Transmission Reliability	Hardy (WV)	Welton Spring (WV)	Frederick	Rocky Point
PE	500	0.5	1	Jul-05	Jul-05	Jul-05	Accommodate for Generator Interconnection	Allegany	Black Oak	Green (PA)	Hatfield (PA)
PE	500	2.4	1	Jul-05	Jul-05	Jul-05	Baseline Transmission Reliability	Allegany	Black Oak	Frederick	Woodside (VA)
Pepco	230	10.1	2	Jul-05	Sep-26	May-26	Aging infrastructure	Prince George's	Talbert	Prince George's	Oak Grove

Appendix 5: List of Maryland Generators, as of December 31, 2024

Owner / Operator	Plant Name	County	Capacity Statistics (MW)		
			Nameplate	Summer	% Summer
Brandon Shores LLC	Brandon Shores	Anne Arundel	685.1	635.0	93%
Brandon Shores LLC	Brandon Shores	Anne Arundel	685.1	638.0	93%
H.A. Wagner LLC	Herbert A. Wagner	Anne Arundel	132.8	126.0	95%
H.A. Wagner LLC	Herbert A. Wagner	Anne Arundel	359.0	305.0	85%
H.A. Wagner LLC	Herbert A. Wagner	Anne Arundel	414.7	397.0	96%
H.A. Wagner LLC	Herbert A. Wagner	Anne Arundel	16.0	12.9	81%
Constellation Power Source Generation, LLC	Perryman	Harford	53.1	52.0	98%
Constellation Power Source Generation, LLC	Perryman	Harford	53.1	51.0	96%
Constellation Power Source Generation, LLC	Perryman	Harford	53.1	52.0	98%
Constellation Power Source Generation, LLC	Perryman	Harford	192.0	139.0	72%
Constellation Power Source Generation, LLC	Perryman	Harford	141.0	109.8	78%
Constellation Power Source Generation, LLC	Philadelphia	Baltimore City	20.7	15.3	74%
Constellation Power Source Generation, LLC	Philadelphia	Baltimore City	20.7	14.8	71%
Constellation Power Source Generation, LLC	Philadelphia	Baltimore City	20.7	14.8	71%
Constellation Power Source Generation, LLC	Philadelphia	Baltimore City	20.7	14.8	71%
Calpine Mid-Atlantic Generation LLC	Crisfield	Somerset	2.9	2.6	90%
Calpine Mid-Atlantic Generation LLC	Crisfield	Somerset	2.9	2.6	90%
Calpine Mid-Atlantic Generation LLC	Crisfield	Somerset	2.9	2.6	90%
Calpine Mid-Atlantic Generation LLC	Crisfield	Somerset	2.9	2.6	90%
NRG Vienna Operations, Inc.	Vienna Operations	Dorchester	18.6	14.3	77%
NRG Vienna Operations, Inc.	Vienna Operations	Dorchester	162.0	153.0	94%
BP Piney & Deep Creek LLC	Deep Creek	Garrett	10.0	9.0	90%
BP Piney & Deep Creek LLC	Deep Creek	Garrett	10.0	9.0	90%
Chalk Point Power, LLC	Chalk Point Power	Prince George's	659.0	595.0	90%
Chalk Point Power, LLC	Chalk Point Power	Prince George's	659.0	585.3	89%
Chalk Point Power, LLC	Chalk Point Power	Prince George's	16.0	18.0	113%
Chalk Point Power, LLC	Chalk Point Power	Prince George's	35.0	26.0	74%
Chalk Point Power, LLC	Chalk Point Power	Prince George's	103.0	86.0	83%
Chalk Point Power, LLC	Chalk Point Power	Prince George's	103.0	86.0	83%
Chalk Point Power, LLC	Chalk Point Power	Prince George's	125.0	109.0	87%
Chalk Point Power, LLC	Chalk Point Power	Prince George's	125.0	109.0	87%
Dickerson Power, LLC	Dickerson Power	Montgomery	163.0	147.0	90%
Dickerson Power, LLC	Dickerson Power	Montgomery	163.0	152.0	93%
Lanyard Power Holdings, LLC	Morgantown Generating Plant	Charles	65.0	54.0	83%
Lanyard Power Holdings, LLC	Morgantown Generating Plant	Charles	65.0	54.0	83%
Constellation Power, Inc.	Conowingo	Harford	45.0	41.0	91%
Constellation Power, Inc.	Conowingo	Harford	55.6	56.1	101%
Constellation Power, Inc.	Conowingo	Harford	55.6	52.0	94%

Appendix 5: List of Maryland Generators, as of December 31, 2024

Constellation Power, Inc.	Conowingo	Harford	36.0	32.7	91%
Constellation Power, Inc.	Conowingo	Harford	48.0	41.9	87%
Constellation Power, Inc.	Conowingo	Harford	47.7	41.9	88%
Constellation Power, Inc.	Conowingo	Harford	36.0	32.7	91%
Constellation Power, Inc.	Conowingo	Harford	47.7	42.3	89%
Constellation Power, Inc.	Conowingo	Harford	48.0	42.3	88%
Constellation Power, Inc.	Conowingo	Harford	55.6	56.7	102%
Constellation Power, Inc.	Conowingo	Harford	55.6	57.3	103%
Easton Utilities Comm	Easton	Talbot	3.5	3.5	100%
Easton Utilities Comm	Easton	Talbot	1.5	1.5	100%
Easton Utilities Comm	Easton	Talbot	1.5	1.5	100%
Easton Utilities Comm	Easton	Talbot	3.8	3.6	95%
Easton Utilities Comm	Easton	Talbot	4.1	4.1	100%
Easton Utilities Comm	Easton	Talbot	5.6	5.6	100%
Easton Utilities Comm	Easton	Talbot	5.6	5.6	100%
Easton Utilities Comm	Easton	Talbot	2.5	2.0	80%
Easton Utilities Comm	Easton	Talbot	3.0	2.5	83%
Easton Utilities Comm	Easton 2	Talbot	1.5	1.5	100%
Easton Utilities Comm	Easton 2	Talbot	1.5	1.5	100%
Easton Utilities Comm	Easton 2	Talbot	5.4	4.5	83%
Easton Utilities Comm	Easton 2	Talbot	5.4	4.5	83%
Easton Utilities Comm	Easton 2	Talbot	6.2	6.2	100%
Easton Utilities Comm	Easton 2	Talbot	6.2	6.2	100%
Easton Utilities Comm	Easton 2	Talbot	6.3	6.3	100%
Easton Utilities Comm	Easton 2	Talbot	6.3	6.3	100%
Constellation Nuclear	Calvert Cliffs Nuclear Power Plant	Calvert	918.0	884.2	96%
Constellation Nuclear	Calvert Cliffs Nuclear Power Plant	Calvert	932.4	861.0	92%
A & N Electric Coop	Smith Island	Somerset	0.5	0.4	80%
A & N Electric Coop	Smith Island	Somerset	1.0	1.0	100%
Town of Berlin - (MD)	Berlin	Worcester	1.1	1.1	100%
Town of Berlin - (MD)	Berlin	Worcester	2.5	2.5	100%
Town of Berlin - (MD)	Berlin	Worcester	2.0	2.0	100%
Essential Power Operating Services LLC	Essential Power Rock Springs LLC	Cecil	198.9	167.3	84%
Essential Power Operating Services LLC	Essential Power Rock Springs LLC	Cecil	198.9	164.1	83%
Essential Power Operating Services LLC	Essential Power Rock Springs LLC	Cecil	198.9	169.0	85%
Essential Power Operating Services LLC	Essential Power Rock Springs LLC	Cecil	198.9	166.3	84%
Wheelabrator Environmental Systems	Wheelabrator Baltimore Refuse	Baltimore City	60.2	57.0	95%
Wheelabrator Environmental Systems	Wheelabrator Baltimore Refuse	Baltimore City	4.3	4.3	100%
Maryland Environmental Service	Eastern Correctional Institute	Somerset	1.9	1.3	68%
Maryland Environmental Service	Eastern Correctional Institute	Somerset	1.9	1.3	68%
Maryland Environmental Service	Eastern Correctional Institute	Somerset	1.0	1.0	100%
Maryland Environmental Service	Eastern Correctional Institute	Somerset	1.0	1.0	100%
Prince George's County	Brown Station Road Plant I	Prince George’s	0.9	0.8	89%

Appendix 5: List of Maryland Generators, as of December 31, 2024

Prince George's County	Brown Station Road Plant I	Prince George’s	0.9	0.8	89%
Prince George's County	Brown Station Road Plant I	Prince George’s	0.9	0.8	89%
Covanta Montgomery, Inc.	Montgomery County Resource Recovery	Montgomery	67.8	54.0	80%
American Sugar Refining, Inc.	Domino Sugar Baltimore	Baltimore City	5.0	5.0	100%
American Sugar Refining, Inc.	Domino Sugar Baltimore	Baltimore City	2.5	2.5	100%
American Sugar Refining, Inc.	Domino Sugar Baltimore	Baltimore City	10.0	10.0	100%
KMC Thermo, LLC	Brandywine Power Facility	Prince George’s	98.7		
KMC Thermo, LLC	Brandywine Power Facility	Prince George’s	98.7		
KMC Thermo, LLC	Brandywine Power Facility	Prince George’s	91.4	230.0	252%
Prince George's County	Brown Station Road Plant II	Prince George’s	1.0	0.8	80%
Prince George's County	Brown Station Road Plant II	Prince George’s	1.0	0.8	80%
Prince George's County	Brown Station Road Plant II	Prince George’s	1.0	0.8	80%
Prince George's County	Brown Station Road Plant II	Prince George’s	1.0	0.8	80%
Trigen-Cinergy Solutions College Park	UMCP CHP Plant	Prince George’s	11.0	9.4	85%
Trigen-Cinergy Solutions College Park	UMCP CHP Plant	Prince George’s	11.0	9.4	85%
Trigen-Cinergy Solutions College Park	UMCP CHP Plant	Prince George’s	5.4	2.0	37%
Trigen Inner Harbor East, LLC	Inner Harbor East Heating	Baltimore City	2.1	2.1	100%
NextEra Renewable Fuels, LLC	Eastern Landfill Gas LLC	Baltimore	1.0	1.3	130%
NextEra Renewable Fuels, LLC	Eastern Landfill Gas LLC	Baltimore	1.0	1.3	130%
NextEra Renewable Fuels, LLC	Eastern Landfill Gas LLC	Baltimore	1.0	1.3	130%
NextEra Renewable Fuels, LLC	Eastern Landfill Gas LLC	Baltimore	1.0	1.3	130%
National Institutes of Health	NIH Cogeneration Facility	Montgomery	28.0	27.6	99%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
Industrial Power Generating Company LLC	Wicomico	Wicomico	0.3	0.3	100%
CPV Maryland LLC	CPV St Charles Energy Center	Charles	223.6	213.4	95%
CPV Maryland LLC	CPV St Charles Energy Center	Charles	223.6	213.9	96%
CPV Maryland LLC	CPV St Charles Energy Center	Charles	328.1	305.0	93%

Appendix 5: List of Maryland Generators, as of December 31, 2024

Roth Rock Wind Farm LLC	Roth Rock Wind Farm LLC	Garrett	40.0	40.0	100%
Roth Rock Wind Farm LLC	Roth Rock North Wind Farm, LLC	Garrett	10.0	10.0	100%
Criterion Power Partners LLC	Criterion	Garrett	70.0	70.0	100%
Luminace Solar Maryland, LLC	McCormick & Co. Inc. at Belcamp	Harford	1.4	1.4	100%
NW Stadium Solar Plant	FedEx Field Solar Facility	Prince George's	2.0	2.0	100%
Constellation Solar Horizons LLC	Mount Saint Mary's	Frederick	13.7	13.7	100%
Terraform Arcadia	Perdue Salisbury Photovoltaic	Wicomico	1.0	1.0	100%
IKEA Property, Inc.	IKEA Perryville 460	Cecil	2.1	2.0	95%
IKEA Property, Inc.	IKEA College Park 411	Prince George's	1.0	1.0	100%
IKEA Property, Inc.	IKEA College Park 411	Prince George's	1.0	1.0	100%
GSA Metropolitan Service Center	Central Utility Plant at White Oak	Montgomery	5.7	5.6	98%
GSA Metropolitan Service Center	Central Utility Plant at White Oak	Montgomery	2.3	2.3	100%
GSA Metropolitan Service Center	Central Utility Plant at White Oak	Montgomery	2.3	2.3	100%
GSA Metropolitan Service Center	Central Utility Plant at White Oak	Montgomery	5.0	5.0	100%
GSA Metropolitan Service Center	Central Utility Plant at White Oak	Montgomery	2.3	2.3	100%
GSA Metropolitan Service Center	Central Utility Plant at White Oak	Montgomery	4.3	4.3	100%
GSA Metropolitan Service Center	Central Utility Plant at White Oak	Montgomery	4.3	4.3	100%
GSA Metropolitan Service Center	Central Utility Plant at White Oak	Montgomery	4.3	4.3	100%
GSA Metropolitan Service Center	Central Utility Plant at White Oak	Montgomery	4.3	4.3	100%
GSA Metropolitan Service Center	Central Utility Plant at White Oak	Montgomery	7.5	7.5	100%
GSA Metropolitan Service Center	Central Utility Plant at White Oak	Montgomery	7.5	7.5	100%
GSA Metropolitan Service Center	Central Utility Plant at White Oak	Montgomery	4.5	4.5	100%
Terraform Arcadia	Kent County-Kennedyville	Kent	1.0	1.0	100%
Terraform Arcadia	Rock Hall	Kent	1.0	1.0	100%
Terraform Arcadia	Kent County - Worton Complex	Kent	1.0	1.0	100%
LES Operations Services LLC	Millersville LFG	Anne Arundel	1.6	1.5	94%
LES Operations Services LLC	Millersville LFG	Anne Arundel	1.6	1.5	94%
Howard County - Maryland	Alpha Ridge LFG	Howard	1.0	1.0	100%
Luminace Solar Maryland II, LLC	UMMS at Pocomoke	Somerset	2.8	2.8	100%
Arevon Energy, Inc.	Maryland Solar	Washington	27.0	20.9	77%
SMECO Solar LLC	Herbert Farm Solar	Charles	5.5	5.5	100%
Tesla, Inc.	Queen Anne's County	Queen Anne's	2.0	2.0	100%
Fourmile Wind Energy, LLC	Fourmile Ridge	Garrett	40.0	40.0	100%
Mayor and City Council of Baltimore City	Back River Waste Water Treatment	Baltimore City	1.1	0.9	82%
Mayor and City Council of Baltimore City	Back River Waste Water Treatment	Baltimore City	1.1	0.9	82%
Mayor and City Council of Baltimore City	Back River Waste Water Treatment	Baltimore City	0.8	0.8	100%
Fair Wind Power Partners, LLC	Fair Wind	Garrett	30.0	30.0	100%
Old Dominion Electric Coop	Wildcat Point Generation Facility	Cecil	310.3	252.3	81%
Old Dominion Electric Coop	Wildcat Point Generation Facility	Cecil	310.3	241.1	78%
Old Dominion Electric Coop	Wildcat Point Generation Facility	Cecil	493.0	497.9	101%
SunE SEM 1, LLC	Chimes West Friendship (Nixon Farms)	Howard	1.2	1.2	100%
NVT LICENSES, LLC	UMES (MD) - Princess Anne	Somerset	2.0	2.1	105%
Rockfish Solar LLC	Rockfish Solar LLC	Charles	10.3	10.3	100%

Appendix 5: List of Maryland Generators, as of December 31, 2024

Luminace Solar Maryland, LLC	General Motors Corp at White Marsh MD	Baltimore	1.0	1.0	100%
Luminace Solar Maryland II, LLC	CNE at Cambridge MD	Dorchester	3.2	3.2	100%
Great Bay Solar I LLC	Great Bay Solar 1	Somerset	75.0	75.0	100%
Consolidated Edison Solutions, Inc.	CES VMT Solar	Washington	1.1	1.1	100%
Luminace Solar Holding, LLC	CCBC-Catonsville	Howard	1.6	1.6	100%
SunE DB27, LLC	Elkton Solar	Cecil	1.6	1.6	100%
Tesla, Inc.	Town of Chestertown- Chestertown WWTP	Kent	1.0	1.0	100%
PSEG Keys Energy Center, LLC	Keys Energy Center	Prince George's	359.6	763.0	212%
PSEG Keys Energy Center, LLC	Keys Energy Center	Prince George's	235.5		
PSEG Keys Energy Center, LLC	Keys Energy Center	Prince George's	235.5		
SunE DB42, LLC	Cecil County CCVT HS	Cecil	2.0	2.0	100%
Terraform Arcadia	Presbyterian Senior Living Service	Baltimore	1.0	1.0	100%
Tesla, Inc.	The Clorox Company	Harford	1.6	1.6	100%
Tesla, Inc.	Chesapeake College	Queen Anne's	1.5	1.5	100%
Altus Power America Management, LLC	MEBA	Talbot	1.5	1.5	100%
Tesla Inc.	Wye Mills VNEM CSG	Queen Anne's	10.0	10.0	100%
Luminace Solar MC, LLC	Archdiocese of Baltimore J	Harford	2.0	2.0	100%
Luminace Solar MC, LLC	Archdiocese of Baltimore L	Harford	2.0	2.0	100%
Luminace Solar MC, LLC	Baltimore City B	Harford	2.0	2.0	100%
Luminace Solar MC, LLC	Baltimore City D	Harford	2.0	2.0	100%
Luminace Solar MC, LLC	Baltimore City F	Harford	2.0	2.0	100%
Luminace Solar MC, LLC	Baltimore City G	Harford	2.0	2.0	100%
Luminace Solar MC, LLC	City of Havre De Grace C	Harford	2.0	2.0	100%
Luminace Solar MC, LLC	Sod Run WTP A	Harford	2.0	2.0	100%
Annapolis Solar Park, LLC	Annapolis Solar Park, LLC	Anne Arundel	12.0	12.0	100%
Luminace Solar MC, LLC	Havre de Grace II - E at Perryman	Harford	1.4	1.4	100%
MN8 Energy LLC	Longview Solar	Wicomico	13.6	13.6	100%
MN8 Energy LLC	Church Hill	Queen Anne's	6.0	6.0	100%
Tesla Inc.	Montgomery County Correctional Facility	Montgomery	1.4	1.4	100%
Tesla Inc.	Garrett County - DPU Treatment Plant	Garrett	1.2	1.2	100%
UGI Energy Services, LLC	Emmitsburg Solar Arrays	Frederick	1.7	1.7	100%
Terraform Arcadia	Pfeffers	Baltimore	1.0	1.0	100%
US Dept of Army, Garrison, APG	APG Combined Heat and Power Plant	Harford	7.9	6.2	78%
CleanCapital Holdings	IGS Solar I - BWI5	Baltimore	1.1	1.1	100%
Madison Energy Holdings LLC	IGS Solar I - BWI2	Baltimore	1.4	1.4	100%
Cypress Creek Renewables	Baker Point	Frederick	9.0	9.0	100%
Montevue Lane Solar, LLC	Fort Detrick Solar PV	Frederick	6.0	6.0	100%
Montevue Lane Solar, LLC	Fort Detrick Solar PV	Frederick	15.7	15.7	100%
Montgomery County Solar	Montgomery County Solar	Montgomery	1.9	1.9	100%
GWCC PV Solar Farm	GWCC PV Solar Farm	Prince George's	1.6	1.6	100%
Luminace Solar MC, LLC	Gateway Solar	Worcester	5.0	5.0	100%
Luminace Solar MC, LLC	Gateway Solar	Worcester	2.6	2.6	100%
NRG Chalk Point CT	NRG Chalk Point CT	Prince George's	94.0	80.2	85%

Appendix 5: List of Maryland Generators, as of December 31, 2024

Terraform Arcadia	Bowie State Solar	Prince George's	1.3	1.3	100%
Madison Energy Holdings LLC	First Baptist Church of Glenarden	Prince George's	1.5	1.6	107%
Tesla Inc.	Bd of Educ of Queen Anne's Cnty, Cnty HS	Queen Anne's	1.7	1.7	100%
Luminace Solar MC, LLC	NIST Solar	Montgomery	4.0	4.0	100%
Northstar Macy's Maryland 2015, LLC	Macy's MD Joppa Solar Project	Harford	1.8	1.8	100%
Altus Power America Management, LLC	Synergen Panorama, LLC CSG	Prince George's	5.0	5.0	100%
Greenbacker Renewable Energy Corporation	Sol Phoenix	Prince George's	2.5	2.5	100%
Greenbacker Renewable Energy Corporation	Blue Star	Kent	7.5	7.5	100%
Standard Solar	UMCES Ground Mount	Dorchester	2.0	2.0	100%
Standard Solar	Anne Arundel County Public Schools	Anne Arundel	1.0	1.0	100%
Onyx Asset Services Group	APG Old Bayside	Harford	1.7	1.7	100%
Onyx Asset Services Group	APG New Chesapeake	Harford	2.3	2.3	100%
Chester Woods Point Solar, LLC	Chester Woods Point Solar, LLC CSG	Queen Anne's	2.0	2.0	100%
Westbound Solar LLC	Amazon Maryland DCA1	Baltimore	1.3	1.3	100%
Standard Solar	MNCPPC Germantown Solar	Montgomery	1.0	1.0	100%
Greenbacker Renewable Energy Corporation	Solar Hagerstown	Washington	10.0	7.5	75%
Nautilus Solar Solutions	BTC2 Solar (CSG)	Baltimore	2.0	2.0	100%
Nautilus Solar Solutions	Upper Marlboro 1 CSG	Prince George's	2.0	2.0	100%
Nautilus Solar Solutions	White CSG	Baltimore	2.0	2.0	100%
Nautilus Solar Solutions	Gibbons CSG	Worcester	2.0	2.0	100%
Old Court Rd Solar, LLC	Old Court Rd Solar	Howard	2.0	2.0	100%
Francis Scott Key Mall	Francis Scott Key Mall	Frederick	1.6	1.6	100%
White Marsh Mall	White Marsh Mall	Baltimore	1.1	1.1	100%
Bluefin Origination 1, LLC	Bluefin Origination 1	Prince George's	2.0	2.0	100%
Tesla Inc.	Frederick County - Landfill	Frederick	2.0	2.0	100%
Tesla Inc.	Wor-Wic Community College - Offsite	Wicomico	2.0	2.0	100%
MN8 Energy LLC	Spruce - WCMD - Rubble II	Washington	2.0	2.0	100%
MN8 Energy LLC	Spruce - WCMD - Rubble I	Washington	2.0	2.0	100%
MN8 Energy LLC	Spruce - WCMD - Creek	Washington	2.0	2.0	100%
MN8 Energy LLC	Spruce - WCMD - Resh I	Washington	2.0	2.0	100%
Sheriff Rd Solar LLC	Sheriff Road	Prince George's	1.1	1.1	100%
Madison Energy Holdings LLC	Pinesburg Solar LLC	Washington	4.3	4.3	100%
Madison Energy Holdings LLC	Timonium Fairgrounds	Baltimore	1.9	1.9	100%
MN8 Energy LLC	Bluegrass Solar	Queen Anne's	79.6	79.6	100%
Forefront Power, LLC	MD - CS - Potomac Edison Co - GA29 TPE	Garrett	2.0	2.0	100%
Bioenergy DevCo	Maryland Bioenergy Center (Jessup)	Howard	1.1	1.1	100%
6685 Santa Barbara Ct	6685 Santa Barbara Ct	Howard	1.0	1.0	100%
Hartz Solar, LLC	7448 Candlewood Road	Anne Arundel	1.5	1.5	100%
Nautilus Solar Solutions	Kirby Road Solar, LLC	Prince George's	1.3	1.3	100%
Standard Solar	MNCPPC Randall Farm	Prince George's	1.4	1.4	100%
Nautilus Solar Solutions	Burns Solar One LLC	Baltimore	2.0	2.0	100%
Nautilus Solar Solutions	Hostetter Solar One, LLC	Washington	2.0	2.0	100%
Nautilus Solar Solutions	P52ES 1755 Henryton Rd Phase 1 LLC CSG	Howard	1.9	1.9	100%

Appendix 5: List of Maryland Generators, as of December 31, 2024

Nautilus Solar Solutions	P52ES 1755 Henryton Rd Phase 2 LLC	Howard	1.9	1.9	100%
Nautilus Solar Solutions	White Marsh Solar	Baltimore	1.5	1.5	100%
Nautilus Solar Solutions	Mason Solar One LLC	Cecil	1.0	1.0	100%
Nautilus Solar Solutions	Pittman Solar One LLC	Washington	2.0	2.0	100%
Nautilus Solar Solutions	Bulldog Solar One, LLC	Prince George's	2.0	2.0	100%
Distributed Solar Development, LLC	MD - PR97 (CSG)	Prince George's	2.0	2.0	100%
Invenergy Services LLC	Todd Solar	Dorchester	20.0	20.0	100%
Standard Solar	OER Checkerspot	Anne Arundel	1.5	1.5	100%
Tesla, Inc.	City of Bowie	Prince George's	2.0	2.0	100%
Hampstead Solar, LLC	Bomber CSG	Carroll	6.0	6.0	100%
ICFTS MD Solar, LLC	Hollins Ferry CSG	Baltimore City	1.5	1.5	100%
Distributed Solar Development, LLC	MD - CS - Potomac Edison Co - GA25 TPE (	Garrett	2.0	2.0	100%
Distributed Solar Development, LLC	MD - CS - BGE - PR24 TPE	Prince George's	2.0	2.0	100%
Standard Solar	OER Monarch CSG	Prince George's	2.0	2.0	100%
Standard Solar	OER Patuxent CSG	Anne Arundel	2.0	2.0	100%
Standard Solar	Shepherds Mill CSG	Carroll	2.0	2.0	100%
TPE MD MO32 LLC	MO32 (CSG)	Montgomery	2.0	2.0	100%
TPE MD MO33 LLC	MO33 CSG	Montgomery	2.0	2.0	100%
Snowden River Parkway, LLC	Snowden River CSG	Howard	1.9	1.9	100%
Altus Power America Management, LLC	Rockdale	Washington	2.0	2.0	100%
AlphaStruxure Service Co LP	Brookville Smart Bus Depot Microgrid	Montgomery	1.5	1.5	100%
AlphaStruxure Service Co LP	Brookville Smart Bus Depot Microgrid	Montgomery	0.6	0.6	100%
AlphaStruxure Service Co LP	Brookville Smart Bus Depot Microgrid	Montgomery	0.6	0.6	100%
AlphaStruxure Service Co LP	Brookville Smart Bus Depot Microgrid	Montgomery	0.6	0.6	100%
AlphaStruxure Service Co LP	Brookville Smart Bus Depot Microgrid	Montgomery	1.7	1.7	100%
MN8 Energy LLC	WMATA - Cheverly Metro (CSG)	Prince George's	1.9	1.9	100%
MN8 Energy LLC	WMATA - Naylor Rd. Metro	Prince George's	1.7	1.7	100%
MN8 Energy LLC	WMATA - S. Ave. Carport (East) (CSG)	Prince George's	1.7	1.7	100%
CleanCapital Holdings	KDC Solar TC Little Patuxent WWTP LLC	Howard	2.0	2.0	100%
CleanCapital Holdings	KDC Solar TC George Howard LLC	Howard	2.0	2.0	100%
CleanCapital Holdings	KDC Solar TC Blandair Park LLC	Howard	2.0	2.0	100%
Greenbacker Renewable Energy Corporation	Friendship I	Howard	2.0	2.0	100%
Greenbacker Renewable Energy Corporation	Friendship II	Howard	2.0	2.0	100%
MN8 Energy LLC	Ripley	Charles	27.5	27.5	100%
Convergent Energy and Power LP	Federalsburg Energy Storage 1 LLC	Caroline	1.2	1.2	100%
Convergent Energy and Power LP	Federalsburg Energy Storage 1 LLC	Caroline	0.8	0.8	100%
Solar DG MD Holabird Broening ACC, LLC	CPG - Duke 5300A Holabird	Baltimore City	1.5	1.5	100%
Solar DG MD Holabird Broening ACC, LLC	CPG - Duke 5300B Holabird	Baltimore City	1.5	1.5	100%
Solar DG MD Holabird AJCFB, LLC	CPG - Duke 5900 Holabird	Baltimore City	1.5	1.5	100%
Solar DG MD Holabird AJCFB, LLC	CPG - Duke 6000 Holabird	Baltimore City	1.5	1.5	100%
KDC Solar CV Ascend One LLC	KDC Solar CV Ascend One LLC	Howard	2	2	100%
KDC Solar CV Cedar Lane Park LLC	KDC Solar CV Cedar Lane Park LLC	Howard	2	2	100%
KDC Solar CV Central MD Regional Transit LLC	KDC Solar CV Central MD Regional Transit	Howard	2	2	100%

Appendix 5: List of Maryland Generators, as of December 31, 2024

KDC Solar CV Animal Control LLC	KDC Solar CV Animal Control LLC	Howard	2	2	100%
KDC Solar CV O'Donnell Property LLC	KDC Solar CV O'Donnell Property LLC	Howard	2	2	100%
Distributed Solar Development, LLC	THD Baltimore DC - 5830 Project Tiger	Baltimore	1.6	1.6	100%
Standard Solar	Holly Spring Meadows	Prince George's	1.2	1.2	100%
AES Clean Energy	Cannonball Solar (CSG)	Frederick	2	2	100%
AES Clean Energy	Big Spring Solar (CSG)	Washington	2	2.1	105%
Citizens Enterprises Corporation	Union Bridge Solar	Carroll	8.2	8.2	100%
Greenbacker Renewable Energy Corporation	Oaks Landfill - ANEM	Montgomery	2	2	100%
Jade Meadow LLC	Jade Meadow LLC	Allegany	19.8	19.8	100%
Distributed Solar Development, LLC	THD Baltimore DCs - 5829 Project Lion	Baltimore	3.8	3.8	100%
FFP MD Freeland Project1, LLC	FFP - MD Foxhall	Baltimore	2	2	100%
Nautilus Solar Solutions	Ten Oaks	Howard	2	2	100%
Nautilus Solar Solutions	Lion One	Baltimore	2	2	100%
Nautilus Solar Solutions	Meeting House	Cecil	2	2	100%
Nautilus Solar Solutions	Mustang One	Dorchester	1.5	1.5	100%
Nautilus Solar Solutions	Bear One	Washington	2.0	2.0	100%
Nautilus Solar Solutions	Beech Road (CSG)	Prince George's	3.0	3.0	100%
Nautilus Solar Solutions	Parker Place	Wicomico	2.0	2.0	100%
Madison Energy Investments LLC	Boyd Soccerplex	Montgomery	1.0	1.0	100%
Standard Solar	Hall Property	Prince George's	2.0	2.0	100%
Spectrum Solar LLC	Spectrum Solar Hybrid	Prince George's	3.0	3.0	100%
Spectrum Solar LLC	Spectrum Solar Hybrid	Prince George's	2.6	2.6	100%
Greenbacker Renewable Energy Corporation	Oaks Landfill CS 1	Montgomery	2.0	2.0	100%
PFMD LL Jessup LLC	MD JESSUP 7950 OCEANO AVE	Howard	1.5	1.5	100%
Greenbacker Renewable Energy Corporation	Oaks Landfill CS 2	Montgomery	2.0	2.0	100%
SoCore Energy LLC	FedEx Hagerstown	Washington	1.8	1.8	100%
Madison Energy Investments LLC	Fairview Farms	Harford	30.0	30.0	100%
Baltimore Gas & Electric Co	Fairhaven	Anne Arundel	2.5	0.7	28%
MD CDG 001 LLC	MD CDG 001	Garrett	2.0	2.0	100%
MD CDG 002 LLC	MD CDG 002	Garrett	2.0	2.0	100%
			12,832.0	**11,652.9**	**91%**

Appendix 6: Proposed New Renewable Generation in Maryland PJM Queue
Effective Date: June 2025

Transmission Owner	Project Name	County Location	PJM Queue Status	PJM Queue #	Fuel Type	Project Capacity (MW)	In-Service/Projected In-Service Date
APS	Frostburg 138 kV	Allegany	Active	AE2-289	Wind	11.76	12/31/2021
APS	Hagerstown-Conservi t 34.5 kV	Washington	Active	AG2-279 - moved to TC2	Solar	12.9	9/30/2024
APS	Westvaco - Mt Zion 138 kV	Garrett	Active	AG2-505 - moved to TC2	Hydro	14	12/31/2023
APS	Carlos Junction-Garrett 138 kV	Allegany	Active	AG2-615 - moved to TC2	Solar	62.6	12/31/2023
APS	Mount Storm-Pruntytown 500kV	Garrett	Active	AH1-283 - moved to TC2	Solar	120	10/31/2024
APS	Catoctin-Carroll 138 kV	Frederick	Active	AH2-262	Solar; Storage	10.2	3/1/2026
APS	Carlos Jct. – Ridgeley 138 kV	Allegany	Active	AI2-353	Wind	16	4/1/2024
APS	Frostburg 138 kV	Allegany	Active	AI2-490	Wind	31.9	12/15/2023
BGE	Waugh Chapel 115 kV	Anne Arundel	Active	AG2-617 - moved to TC2	Solar	33	12/31/2023
DPL	Airey-Vienna 69 kV	Dorchester	Active	AF2-358 - moved to TC1	Solar	60	12/15/2023
DPL	Airey - Golden Hill 69 kV	Dorchester	Active	AG2-181 - moved to TC2	Solar	2.8	6/1/2024
DPL	Edgewood 12.47 kV	Wicomico	Active	AH1-057 - moved to TC2	Solar	3	1/31/2023
DPL	Mt Olive - Kenny 69kV	Worcester	Active	AH1-380 - moved to TC2	Solar	12	12/20/2024
DPL	Church-Oil City 138kV	Queen Anne's	Active	AH1-536 - moved to TC2	Solar; Storage	8.5	3/1/2025
DPL	New Hope 12.47 kV	Allegany	Active	AH2-052	Solar	0	12/2/2022
DPL	Mardela Springs 12.47 kV	Wicomico	Active	AH2-053	Solar	0	12/2/2022
DPL	Edgewood 12.47 kV I	Wicomico	Active	AH2-054	Solar	0	12/2/2022
DPL	TBD 69kV	Unknown	Active	AH2-055	Solar	0	2/15/2022
DPL	TBD 69kV	Prince George's	Active	AH2-065	Solar	0	12/1/2022
DPL	Edgewood 12.47 kV II	Wicomico	Active	AH2-070	Solar	0	1/27/2023
DPL	Edgewood 12.47 kV III	Wicomico	Active	AH2-071	Solar	0	1/27/2023
DPL	West Cambridge - Airey 69 kV	Dorchester	Active	AH2-096	Solar	8.19	5/1/2023
DPL	Mt. Hermon 69 kV	Wicomico	Active	AH2-198	Solar	53.8	6/30/2026
DPL	Talbot 69 kV	Worcester	Active	AH2-337	Solar; Storage	80	2/27/2026
DPL	Church - Oil City 138 kV III	Caroline	Active	AH2-370	Solar	17.816	11/15/2023
DPL	Sign Post - Stockton 69 kV	Worcester	Active	AH2-379	Solar	16.98	3/1/2026
DPL	Todd 69 kV	Dorchester	Active	AI2-176	Solar	14.5	12/31/2021
DPL	Todd 25 kV	Dorchester	Active	AI2-177	Solar	5.8	7/31/2021
DPL	Rockawalkin 69 kV	Wicomico	Active	AI2-207	Solar	5.35	3/30/2023
DPL	Price 25 kV	Queen Anne's	Active	AI2-211	Solar	2.6	3/3/2023
DPL	King's Creek 138 kV	Somerset	Active	AI2-235	Solar	62.652	3/2/2023

DPL	Hillsboro - Wye Mills 138 kV	Queen Anne's	Active	AI2-350	Solar	11.9	5/1/2025
DPL	Bishopville – Worcester 138 kV	Worcester	Active	AJ1-018	Solar; Storage	39	12/29/2028
PEPCO	Morgantown 230 kV	Charles	Active	AG2-618 - moved to TC2	Solar	71.5	12/31/2023
PEPCO	Chalk Point 230 kV	Prince George's	Active	AH1-552 - moved to TC2	Solar; Storage	670.2	6/1/2025
SMECO	Hughesville-Cedarville 69kV	Charles	Active	AH2-266	Solar	15	3/1/2026
					Total	**1473.9**	