PUBLIC SERVICE COMMISSION OF MARYLAND

RENEWABLE ENERGY PORTFOLIO STANDARD REPORT

With Data for Calendar Year 2023

In compliance with §7-712 of the Public Utilities Article, Annotated Code of Maryland

Revised December 6, 2024

6 St. Paul Street Baltimore, MD 21202 Tel: (410) 767-8000 www.psc.state.md.us

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TABLE OF CONTENTS

I.	INTRODUCTION	1
	A. Objectives of the Program	1
	B. Overview of the Maryland RPS Program	2
	1. Registration of Renewable Energy Facilities	2
	2. Maryland RPS Annual Percentage Requirements	3
	3. Maryland RPS Alternative Compliance Payment Requirements	6
II.	ELECTRICITY SUPPLIER COMPLIANCE REPORTS	6
III	I.MARYLAND RENEWABLE ENERGY FACILITIES	17
IV	GEOTHERMAL CARVE-OUT	20
V.	SMALL SOLAR ENERGY GENERATING SYSTEM INCENTIVE PROGRAM.	20
VI	CONCLUSION	21
Al	PPENDICES	22
	Appendix A 2023 Retired RECs by Facility	23
	Appendix B Location of Facilities that Provided RECs for 2023 RPS Compliance	29
	Appendix C Disposition of 2023 Vintage RECs Generated in Maryland	30
	Appendix D Number of Renewable Energy Facilities Located in Maryland	31
	Appendix E Capacity of Renewable Energy Facilities Located in Maryland (MW)	32
	Appendix F Maryland Certified Renewable Energy Facilities	33
	Appendix G Price of RECs by Fuel Source	42

LIST OF TABLES

Table 1 Eligible Tier 1 and Tier 2 Sources	. 4
Table 2 Annual RPS Requirements by Tier	. 5
Table 3 ACP Schedule (\$/MWh)	. 6
Table 4 Average Cost of RECs per Tier (2008 – 2023)	. 8
Table 5 Total Cost of RECs per Year (2018 – 2023)	. 9
Table 6 Results of the 2023 RPS Compliance Reports	. 9
Table 7 2023 RECs Retired by State	13
Table 8 2023 RECs Retired by State (%)	14
Table 9 2023 Maryland-Generated RECs by Fuel Source	18
Table 10 Disposition of 2023 Maryland-Generated RECs	19
Table 11 2023 Maryland-Generated RECs Retired for RPS Compliance by State	19
LIST OF FIGURES	
Figure 1 RECs Retired as a Percent of Retail Sales	. 7
Figure 2 RECs Retired in 2023 by Generation Year	10
Figure 3 2023 Tier 1 Retired RECs by Fuel Source	11
Figure 4 Total Rated Capacity by State (MW)	12
Figure 5 Number of RECs Retired by Facility Location (2023)	13
Figure 6 RECs Retired by Fuel Type (2008 – 2023)	15
Figure 7 Percentage of RECs Generated in Each State, by Fuel (2023)	16

I. INTRODUCTION

This document constitutes the annual report of the Public Service Commission of Maryland regarding the implementation of the Maryland Renewable Energy Portfolio Standard (RPS) Program, with data for calendar year 2023. This report is submitted pursuant to §7-712 of the Public Utilities Article (PUA), *Annotated Code of Maryland*, which requires the Commission to report to the General Assembly on the status of the implementation of the RPS Program on or before December 1 of each year. The Maryland RPS Program is designed to support a stable and predictable market for energy generated from renewables, to reduce greenhouse gas emissions and eliminate carbon—fueled generation from the State's electric grid, and to lower the cost to consumers of electricity produced from these resources. Implementation of the RPS Program assists in overcoming market barriers seen as impediments to the development of the industry. Moreover, increasing reliance upon renewable energy technologies to satisfy electric power requirements can result in long-term emission reductions, increased fuel diversity, and economic benefits to the State.

The calendar year 2023 electricity supplier compliance reports, as verified by the Commission, indicate that the State of Maryland RPS obligations were partly fulfilled through the submission of Tier 1 and Tier 2 Renewable Energy Credits (RECs).³ Remaining calendar year 2023 RPS obligations were satisfied by compliance fees, also known as Alternative Compliance Payments (ACPs). This year's ACPs were by far the largest in the history of the RPS, indicating a shift in how electricity suppliers comply with the RPS obligations within Maryland.

A. Objectives of the Program

The objective of PUA §7-701 *et seq.* (the RPS statute) is to recognize and to develop the benefits associated with a diverse portfolio of renewable energy resources to serve Maryland. The State's RPS Program does this by recognizing the environmental and consumer benefits associated with renewable energy. The RPS Program requires electricity suppliers to supply a prescribed minimum portion of their retail electricity sales with various renewable energy resources which have been classified within the RPS statute as Tier 1 and Tier 2 renewable resources. The program is implemented through the creation, sale, and transfer of RECs.

The development of renewable energy resources is further promoted by requiring electricity suppliers to provide an ACP for failing to acquire sufficient RECs to satisfy the RPS as set forth in PUA §7-703. Compliance fees are deposited into the Maryland Strategic Energy Investment Fund (SEIF) as dedicated funds to provide for loans and grants that spur the creation

¹ Electricity suppliers must file an RPS compliance report with the Commission for the prior calendar year by April 1st of the subsequent year. Consequently, this report, which is due to the General Assembly in December 2024, highlights data from electricity suppliers' 2023 compliance reports and other relevant 2023 data. In compliance with PUA §7-712, topics addressed in this report include the availability of Tier 1, Tier 1 Solar, and Tier 2 renewable energy sources, compliance fees collected to support in-State renewable projects, and other pertinent information.

² See PUA §7-702 which describes the legislative intent and legislative findings in support of the enactment of the Maryland Renewable Energy Portfolio Standard.

³ See Section I.B.2 for a description of eligible Tier 1 and Tier 2 resources and requirements.

of new Tier 1 renewable energy resources in the State including those that are owned by or directly benefit low- to moderate-income communities, or overburdened or underserved communities.⁴ Responsibility for developing renewable energy resources is vested with the Maryland Energy Administration (MEA).

B. Overview of the Maryland RPS Program

Under the RPS Program, Maryland electricity suppliers are required to demonstrate compliance on an annual basis with an escalating renewable energy portfolio standard. This requirement applies to both competitive retail suppliers and electric companies in the state, including those that provide Standard Offer Service. Electricity suppliers must file annual compliance reports with the Commission verifying that the renewable requirement for each entity has been satisfied.

A REC constitutes the renewable attributes associated with one megawatt-hour (MWh) of electricity generated using eligible renewable resources. As such, a REC is a uniquely-identified tradable commodity equal to one MWh of electricity generated or obtained from an eligible renewable energy resource. While RECs are often bundled and sold with the generated electricity, RECs can be traded separately. Generators and electricity suppliers may trade RECs using a Commission-approved system known as the Generation Attributes Tracking System (GATS). The GATS system is operated by PJM Environmental Information Services, Inc. (PJM-EIS) and is designed to track the ownership and trading of generation attributes. A REC previously had a three-year lifespan during which it may be transferred, sold, or redeemed, however, in 2024, this was increased to five years due to the passage of Senate Bill 783 in 2024. Each electricity supplier must document annually the retirement of RECs equal to the percentage specified by the RPS statute or pay an ACP commensurate with any shortfalls.

1. Registration of Renewable Energy Facilities

Facilities eligible for the Maryland RPS Program must be in PJM (the wholesale bulk power control area in which Maryland resides)⁸ or an adjacent control area,⁹ so long as the

⁴ See Article - State Government §9–20B–05(i).

⁵ Standard Offer Service (SOS) is electricity supply purchased from an electric company by the company's retail customers who cannot or choose not to transact with a competitive supplier operating in the retail market. *See* PUA §§7-501(n) and 7-510(c).

⁶ An attribute is "a characteristic of a generator, such as location, vintage, emissions output, fuel, state RPS Program eligibility, etc." PJM-EIS, *GATS Operating Rules* (May 2014) at 3.

Chapter 595 of the Laws of Maryland 2024.

The PJM wholesale market includes all or parts of Delaware, Illinois, Indiana, Kentucky, Maryland, Michigan, New Jersey, North Carolina, Ohio, Pennsylvania, Tennessee, Virginia, West Virginia, and the District of Columbia. A control area is an "electric system or systems, bounded by interconnection metering and telemetry, capable of controlling generation to maintain its interchange schedule with other Control Areas and contributing to frequency regulation. For the purposes of this document, a Control Area is defined in broad terms to include transmission system operations, market, and load-serving functions within a single organization. A Control Area operator may be a system operator, a transmission grid operator, or a utility." PJM-EIS, Generation Attribute Tracking System (*GATS*) Operating Rules (April 2018) at 5. For example, the multi-state area controlled by the PJM Regional

electricity produced is delivered into the PJM region. However, facilities generating electricity from solar energy, geothermal, poultry litter—to—energy, waste—to—energy, or refuse—derived fuel are eligible only if the facility is connected to the electric distribution grid serving Maryland. Energy from a thermal biomass system must be used within Maryland to qualify for the RPS program. Finally, energy from raw or treated wastewater used as a heat source or sink for a heating or cooling system must be either connected with the electric distribution grid serving Maryland or used to process wastewater from Maryland residents in order to qualify.

Before recommending certification of a Renewable Energy Facility (REF), Commission Staff must determine whether the facility meets the standards set forth by the RPS statute and Commission regulations (COMAR 20.61). REF applicants who qualify under Maryland's RPS Program must complete the appropriate application for REF certification posted on the Commission's RPS website. 12 In addition to the geographic requirements, applicants must also meet the fuel source requirements associated with Tier 1 or Tier 2 (see Table 1 below). Verification of the fuel source is completed with the aid of Energy Information Administration Form 860 (EIA-860) to validate each facility's rated nameplate capacity, fuel source(s), location, and commercial operation in-service date. ¹³ Facilities that co-fire a REC-eligible renewable fuel source with non-eligible fuel sources must also submit a formula or methodology to account for the proportion of total electricity generated by the eligible fuel sources, which then may be credited with RECs. In addition to obtaining Commission certification, all REFs must register with GATS to track and transact business related to RECs. The GATS account must be established with the certification number issued by the Commission upon approval of the REF application. With the passage of Senate Bill 783 in 2024, the Commission is required to: "On or before July 1, 2026, implement a revised system to review and ensure compliance with the Renewable Energy Portfolio Standard." In light of this requirement, the Commission is undergoing a process to update its existing REC application portal and procedure. Furthermore, the Commission is implementing new application requirements for REF's that qualify under the Small Solar Energy Generating System Incentive Program in accordance with updates established in Senate Bill 783. The Commission will provide updates to this implementation progress in future Renewable Energy Portfolio Standard Reports.

2. Maryland RPS Annual Percentage Requirements

To comply with the Maryland RPS Program, electricity suppliers must acquire RECs derived from Maryland-certified Tier 1 and Tier 2 renewable sources, as defined in PUA §7-701. Eligible fuel sources for Tier 1 RECs and Tier 2 RECs are listed in Table 1. Solar, geothermal,

Transmission Operator is one control area, as is the adjacent Midwest Independent System Operator (MISO) multistate area, and the adjacent New York ISO.

¹⁰ There are currently no thermal biomass facilities in Maryland.

¹¹ PUA §7-701(s) as a result of House Bill 561 passed in 2021.

REF applications are maintained by the Commission and are accessible online, available at: https://www.psc.state.md.us/electricity/description-documents-maryland-renewable-energy-portfolio-standard-program/.

Submitting Form EIA-860 is a requirement under Section 13(b) of the Federal Energy Administration Act of 1974 (Public Law 93-275) for generating plants, regulated and unregulated, which have a nameplate rating of 1 MW or more, are operating or plan to operate within 5 years, and are connected to the transmission grid.

and offshore wind have their own standards within Tier 1, and these "carve-outs" are sub-sets of the Tier 1 standard.

Table 1 Eligible Tier 1 and Tier 2 Sources

Tier 1 Renewable Sources	Tier 2 Renewable Sources
 Solar, including energy from photovoltaic technologies and solar water heating systems Wind Qualifying Biomass Methane from a landfill or wastewater treatment plant Geothermal Ocean Fuel Cell that produces electricity from a Tier 1 source Hydroelectric power plant less than 30 MW capacity Poultry litter-to-energy Waste-to-energy Refuse-derived fuel Thermal energy from a thermal biomass system Raw or treated wastewater used as a heat source or sink for a heating or cooling system 	Hydroelectric power other than pump storage generation (Note: Tier 1 RECs may be used to satisfy Tier 2 obligations)

As shown in Table 2 below, there is a different percentage schedule corresponding to each tier and carve-out requirement comprising the Maryland RPS Program.

- The Tier 1 requirements gradually increase until peaking in 2030, after which they are maintained at those levels.
- The Tier 1 Solar carve-out requirement increases from 6 percent in 2023 to 14.5 percent by 2030. 14 This ramp-up period for the solar carve-out corresponds in part with the implementation of the community solar energy generating facilities which was established in 2015. 15 This pilot was made into a permanent program in 2023. 16 There is a potential that Solar Renewable Energy Credits (SRECs) generated by eligible community solar facilities could serve to help meet the increasing Tier 1 Solar carve-out in the coming years.

¹⁴ Chapter 757 of the Laws of Maryland 2019.

¹⁵ Chapter 346 of the Laws of Maryland 2015.

¹⁶ Chapter 652 of the Laws of Maryland 2023.

- The Brighter Tomorrow Act from 2024¹⁷ requires the Commission to establish the Small Solar Energy Generating System Incentive Program under which eligible solar systems may generate certified SRECs that have a compliance value of 150% of noncertified SRECs. The Act also extends the duration of all RECs used to comply with Maryland's RPS to five years.
- Beginning in 2017, a constant Tier 1 Offshore Wind carve-out of up to 2.5 percent commenced as part of the Tier 1 portfolio.¹⁸ In Order No. 88192, the Commission established specific offshore wind carve-outs from 2021 through 2042 ranging from 0.60 percent to 2.03 percent. Senate Bill 516, enacted in May 2019, increased the RPS requirements to 50 percent by 2030, and established additional offshore wind carve-outs beginning in 2027.
- Beginning in 2023, a Tier 1 geothermal carve-out of up to 0.05 percent will commence as part of the Tier 1 portfolio rising to 1.0 percent in 2028.
- Maryland's Tier 2 requirement of 2.5 percent was re-established by Senate Bill 65 in 2021.

Table 2 Annual RPS Requirements by Tier¹⁹

Compliance Year	Tier 1 (Excluding Carve-outs)	Solar	Offshore Wind ²⁰	Post 2022 Geothermal	Tier 2	Total
2023	25.85%	6.00%	N/A	0.05%	2.50%	34.40%
2024	26.91%	6.50%	0.14%	0.15%	2.50%	36.20%
2025	26.59%	7.00%	1.66%	0.25%	2.50%	38.00%
2026	26.89%	8.00%	2.61%	0.50%	2.50%	40.50%
2027	18.23%	9.50%	13.02%	0.75%	2.50%	44.00%
2028	17.98%	11.00%	13.02%	1.00%	2.50%	45.50%
2029	22.98%	12.50%	13.02%	1.00%	2.50%	52.00%
2030+	21.48%	14.50%	13.02%	1.00%	2.50%	52.50%

¹⁷ Chapter 595 of the Laws of Maryland 2024.

¹⁸ The Maryland Offshore Wind Energy Act of 2013 (2013 Md. Laws, Ch. 003) established an offshore wind carveout within the Tier 1 requirement. Beginning in 2017, Tier 1 may include a Commission-determined amount of offshore wind RECs (ORECs) not to exceed 2.5 percent. The project must be generating RECs in order for the obligation to begin. In the absence of a Commission-determined OREC obligation, electricity suppliers must satisfy the carve-out using RECs derived from other Tier 1 renewable sources.

¹⁹ For an electric cooperative, the solar requirement is 2.5% in 2020 and later. For a municipal electric utility, in 2022 and later, the requirements are 20.4% for Tier 1, which includes 1.95% from solar, and the offshore wind requirement shown above. See PUA §7-703(e).

²⁰ This percentage includes only the Commission-approved offshore wind energy carve-out from Order No. 88192 and Order No. 90011.

At certain renewable procurement cost thresholds, an electricity supplier can request that the Commission consider a delay in scheduled Tier 1 and Tier 1 Solar RPS percentages. ²¹ To date, no such request has been made by electricity suppliers operating in the Maryland marketplace.

3. <u>Maryland RPS Alternative Compliance Payment Requirements</u>

Electricity suppliers who do not meet their RPS obligation through the retirement of eligible RECs must submit an ACP for every unit of shortfall. Table 3 presents the ACP schedule separated by tiers for each compliance year of the RPS Program moving forward.

Compliance Year	Tier 1 (Excluding Carve-outs)	Solar	Post 2022 Geothermal	Tier 2	IPL ²² Tier 1
2023	\$30	\$60	\$100	\$15	\$2
2024	\$27.50	\$60	\$100	\$15	\$2
2025	\$25	\$55	\$100	\$15	\$2
2026	\$24.75	\$45	\$90	\$15	\$2
2027	\$24.50	\$35	\$80	\$15	\$2
2028	\$22.50	\$32.50	\$65	\$15	\$2
2029	\$22.50	\$25	\$65	\$15	\$2
2030+	\$22.35	\$22.50	\$65	\$15	\$2

Table 3 ACP Schedule (\$/MWh)

II. ELECTRICITY SUPPLIER COMPLIANCE REPORTS

Calendar year 2023 marked the 18th compliance year for the Maryland RPS. The RPS compliance reports submitted to the Commission by electricity suppliers, along with information obtained from GATS, provide information regarding the retired RECs and the underlying REFs (*e.g.*, type and location of generators) utilized by electricity suppliers to comply with Maryland RPS obligations. RPS compliance reports were filed by 110 electricity suppliers, including: 75 competitive retail suppliers; 24 brokers or competitive electricity suppliers with zero retail electricity sales; and 11 electric companies, of which four are investor-owned utilities.

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²¹ PUA §7-705(e).

Industrial Process Load (IPL) means the consumption of electricity by a manufacturing process at an establishment classified in the manufacturing sector under the North American Industry Classification System. Under PUA §7-705(b)(2) and COMAR 20.61.01.06.E(5), a supplier sale for IPL is required to meet the entire Tier 1 obligation for electricity sales, including solar. However, the ACP for an IPL Tier 1 non-solar shortfall and a Tier 1 Solar shortfall is the same. For IPL, there is no ACP for Tier 2 shortfalls.

Solar shortfall is the same. For IPL, there is no ACP for Tier 2 shortfalls.

²³ According to PUA §7-709, a REC can be diminished or extinguished before the expiration of three years by: the electricity supplier that received the credit; a nonaffiliated entity of the electricity supplier that purchased or otherwise received the transferred credit; or demonstrated noncompliance by the generating facility with the requirements of PUA §7-704(f). In the PJM region, the regional term of art is "retirement," which describes the process of removing a REC from circulation by the REC owner, *i.e.*, the owner "diminishes or extinguishes the REC." PJM-EIS, *GATS Operating Rules* (January 2024) at 54-56.

According to the filed compliance reports, there were approximately 56.2 million MWh of total retail electricity sales in Maryland for 2023 (down from 58.9 million MWh in 2022); 55.1 million MWh of retail electricity sales were subject to RPS compliance and 1.1 million MWh were exempt. Haryland electricity suppliers retired about 7.9 million RECs in 2023, far fewer than the 16.1 million RECs retired for compliance in 2022 and the 15.2 million RECs retired in 2021. In fact, 2023 had the fewest RECs retired since 2014, while the total cost of RECs retired in 2023 was \$243.8 million, down from \$355.4 million in 2022. ACP prices were in many instances less expensive than REC prices, and as a result suppliers chose to pay the ACP rather than retire RECs. To illustrate the fall in retired RECs, Figure 1 shows the number of RECs retired as a percentage of retail sales each year since 2008.



Figure 1 RECs Retired as a Percent of Retail Sales

Table 4 displays the average cost per REC retired in each tier since 2008. The overall rise in REC prices is likely attributable to the increasing RPS percentages in both Maryland and other PJM states. The rise in SREC prices may be attributable to an increase in demand for SRECs due to the effects of the Clean Energy Jobs Act. ²⁵

²⁴ According to PUA §7-703(a)(2), exceptions for the RPS requirement may include: IPL which exceeds 300,000,000 kWh by a single customer in a year; regions where residential customer rates are subject to a freeze or cap (*see* PUA §7-505); or electric cooperatives under a purchase agreement that existed prior to October 1, 2004, until the expiration of the agreement. COMAR 20.61.01.06(D) exempts any sale of electricity that is marketed or otherwise represented to customers as renewable or having characteristics of a Tier 1 renewable source or Tier 2 renewable source.

²⁵ Chapter 673 of the Laws of Maryland 2021.

Table 4 Average Cost of RECs per Tier (2008 – 2023)

Year	Tier 1	Geothermal*	Solar	Tier 2
2008	\$0.94	N/A	\$345.45	\$0.56
2009	\$0.96	N/A	\$345.28	\$0.43
2010	\$0.99	N/A	\$328.57	\$0.38
2011	\$2.02	N/A	\$278.26	\$0.45
2012	\$3.19	N/A	\$201.92	\$0.44
2013	\$6.70	N/A	\$159.71	\$1.81
2014	\$11.64	N/A	\$144.06	\$1.81
2015	\$13.87	N/A	\$130.39	\$1.71
2016	\$12.22	N/A	\$110.63	\$0.96
2017	\$7.14	N/A	\$38.18	\$0.48
2018	\$6.54	N/A	\$31.91	\$0.66
2019	\$7.77	N/A	\$47.26	\$1.05
2020	\$8.24	N/A	\$66.10	\$1.06
2021	\$14.36	N/A	\$72.59	\$6.45
2022	\$17.80	N/A	\$57.80	\$7.42
2023	\$24.61	\$94.47	\$56.67	\$10.50

^{*} Note geothermal is only the post-2022 carve-out and does not include the geothermal included in the Tier 1 column.

As demonstrated by Table 5, the aggregated cost of compliance with the Maryland RPS Program in 2023 displays a significant increase from 2022 (from \$438,832,999 in 2022 to \$564,208,520 in 2023). While costs had been moderately increasing with time, a spike in prices occurred in 2021. This was driven in part by an increase in the requirement for retired Solar RECs, resulting in large quantities of ACPs needing to be purchased. Much of the increase in 2023 was driven by the unprecedented ACPs, in part due to REC prices in the market being above the ACPs when many suppliers were looking to purchase RECs. REC prices may have been above the ACP due to a general shortage of Tier 1 RECs, and the fact that surrounding states such as Pennsylvania and New Jersey have higher Tier 1 ACPs than does Maryland. Prior to 2021, reliance on ACPs had been limited. As shown in Table 5, the total cost of ACPs increased substantially from \$86,584,883 in 2022 to \$320,363,538 in 2023.

Table 5 Total Cost of RECs per Year (2018 – 2023)

	Tier	2018	2019	2020	2021	2022	2023
ts t	Tier 1	\$56,406,247	\$79,320,505	\$99,836,127	\$187,346,301	\$246,480,883	\$124,932,208
Costs	Geo.	N/A	N/A	N/A	N/A	N/A	\$104,295
_	Solar	\$27,351,388	\$55,166,116	\$122,943,987	\$144,411,601	\$101,384,663	\$109,553,864
REC	Tier 2	\$1,049,293	\$58,899	\$386,590	\$959,225	\$4,382,570	\$9,254,616
Total	ACPs	\$67,796	\$7,730,223	\$52,240	\$77,129,013	\$86,584,883	\$320,363,538
T	Total	\$84,874,724	\$142,275,743	\$223,218,944	\$409,846,140	\$438,832,999	\$564,208,521
S	Tier 1	8,627,737	10,210,275	12,117,585	13,045,432	13,849,611	5,075,872
Total RECs Retired	Geo.	N/A	N/A	N/A	N/A	N/A	1,032
otal RE	Solar	857,232	1,167,329	1,859,976	1,989,505	1,753,987	1,933,280
ota Re	Tier 2	1,599,819	55,879	366,260	148,702	590,330	878,304
	Total	11,084,788	11,433,483	14,343,821	15,183,639	16,193,928	7,888,488
	Tier 1	14.30%	15.20%	22.00%	23.30%	24.60%	25.85%
% red	Geo.	N/A	N/A	N/A	N/A	N/A	0.05%
RPS %	Solar	1.50%	5.50%	6.00%	7.50%	5.50%	6.00%
Rec	Tier 2	2.50%	2.50%	2.50%	2.50%	2.50%	2.50%
	Total	18.30%	23.20%	30.50%	33.30%	32.60%	34.40%

Table 6 Results of the 2023 RPS Compliance Reports

RPS	Compliance Year	Tier 1	Geothermal	Solar	Tier 2	Total
	RPS Obligation	13,818,282	17,229	3,017,380	905,725	17,758,616
2023	Retired RECs	5,075,872	1,032	1,933,280	878,304	7,888,488
	ACP Required	\$262,364,678	\$1,619,700	\$55,966,945	\$412,215	\$320,363,538

Note: Some electricity suppliers retired more RECs than required.

RECs are valid to demonstrate RPS compliance for the calendar year in which they were generated and in the following four calendar years. Figure 2 aggregates the Maryland RPS tiers on the basis of generation year. For the 2023 compliance year, 69.0 percent of RECs retired were generated in 2023; 21.4 percent were generated in 2022; and the remaining 9.3 percent were generated in 2021. This data conveys that RECs are in high demand as they are most often retired in the year of their generation.

²⁶ COMAR 20.61.03.01C (unless the REC is diminished or extinguished before expiration). A REC previously had a three-year lifespan during which it may be transferred, sold, or redeemed, however, in 2024, this was increased to five years due to the passage of Senate Bill 783 in 2024 which leads to the REC being valid to demonstrate RPS compliance for the calendar year generated and in the following four calendar years, as opposed to the previous two calendar years.

4,000,000 3,500,000 3,000,000 Quantity of RECs 2,500,000 **2021** 2,000,000 **2022** 1,500,000 2023 1,000,000 500,000 0 Tier 1 Geothermal Solar Tier 2

Figure 2 RECs Retired in 2023 by Generation Year

Figure 3 illustrates the fuel sources used to satisfy Tier 1 RPS requirements for the 2023 RPS compliance year. Of the Tier 1 RECs retired for 2023, the resources from which the RECs were sourced consisted primarily of solar, wind, black liquor, and municipal solid waste. Although not pictured, Tier 2 RPS requirements for the 2023 RPS compliance year were satisfied exclusively by RECs derived from hydroelectric power.

BLQ WND **GEO** 16.1% 19.9% 0.3% LFG WH 2.9% 1.3% **MSW** 9.7% 14.2% **WAT OBG** 7.5% 0.3% OBS 0.3% **SUN** 27.5%

Figure 3 2023 Tier 1 Retired RECs by Fuel Source²⁷

Abbreviations: BLQ, Black Liquor; LFG, Landfill Gas; GEO, Geothermal; MSW, Municipal Solid Waste; OBG, Other Biomass Gas; OBS, Biomass Solids; SUN, PV solar; WAT, Hydroelectric; WDS, WH, Waste Heat; Wood and Waste Solids; WND, Wind.

Figure 4 presents the geographical location and the total generating capacity (18,147 MW) for all Maryland RPS-certified facilities regardless of Tier. RPS requirements also exist in the surrounding states which generally support out-of-state and regional market participation. Illinois is the largest single source with over 98 percent of its registered capacity being wind generation.

²⁷ WAT includes Tier 1 only. Solar thermal and geothermal contributed too few RECs to be seen on the chart.

4,896 Capcity (MW) 3,070 2,416 2,277 1,263 1,048 900 861 180 146 134 80 58 42 32 19 18 MD PA OH WV NC VA DE ND MO IΑ DC SC MN

Figure 4 Total Rated Capacity by State (MW)²⁸

For the 2023 compliance year,.

Figure 5 displays aggregated REC data to convey general relationships among the states that contributed RECs. For the first time, Maryland supplied the largest number of RECs purchased by retail electric suppliers (34.6 percent), followed by Virginia (20.1 percent), and North Carolina (14.4 percent). The remaining 13 states contributed a total of 30.9 percent of all RECs retired in 2023. The majority of RECs from in-State generators were sourced from Tier 1 non-solar (28.0 percent) and solar photovoltaic (70.1 percent).

²⁸ PJM-EIS, Generation Attribute Tracking System, Database query, (October 1, 2023). The information in this figure does not include Commission-authorized REFs that have not established a REC account with PJM GATS.

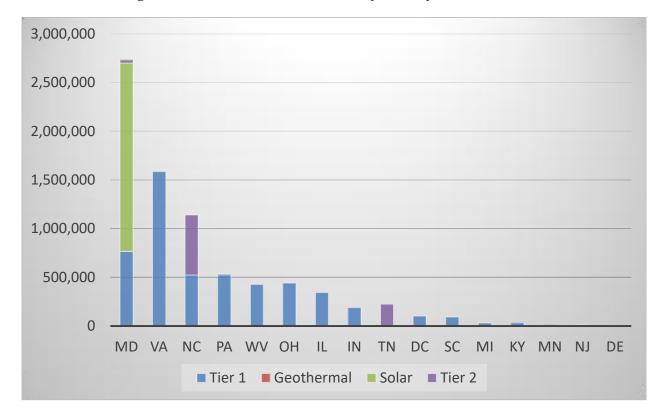


Figure 5 Number of RECs Retired by Facility Location (2023)

Table 7 and Table 8 provide the quantitative data in support of the previous figure.

Table 7 provides the reported levels of RECs retired by Maryland electricity suppliers in 2023 on a tier and aggregate basis whereas Table 8 provides the information on a percentage basis.

Table 7 2023 RECs Retired by State

State	Tier 1	Geothermal	Solar	Tier 2	All Tiers
MD	765,562	1,104	1,933,341	31,601	2,731,608
VA	1,584,805	0	0	0	1,584,805
NC	523,057	0	0	616,789	1,139,846
PA	524,470	0	0	10,257	534,727
WV	427,281	0	0	639	427,920
ОН	439,542	0	0	0	439,542
IL	342,390	0	0	0	342,390
IN	188,563	0	0	0	188,563
TN	0	0	0	221,955	221,955
DC	100,452	0	0	0	100,452

State	Tier 1	Geothermal	Solar	Tier 2	All Tiers
SC	90,865	0	0	0	90,865
MI	30,416	0	0	0	30,416
KY	32,687	0	0	0	32,687
MN	11,441	0	0	0	11,441
NJ	9,711	0	0	0	9,711
DE	4,558	0	0	0	4,558
Total	5,075,800	1,104	1,933,341	881,241	7,891,486

Table 8 2023 RECs Retired by State (%)

State	Tier 1	Geothermal	Solar	Tier 2	All Tiers
MD	15.1%	100.0%	100.0%	3.6%	34.6%
VA	31.2%	0.0%	0.0%	0.0%	20.1%
NC	10.3%	0.0%	0.0%	70.0%	14.4%
PA	10.3%	0.0%	0.0%	1.2%	6.8%
WV	8.4%	0.0%	0.0%	0.1%	5.4%
ОН	8.7%	0.0%	0.0%	0.0%	5.6%
IL	6.7%	0.0%	0.0%	0.0%	4.3%
IN	3.7%	0.0%	0.0%	0.0%	2.4%
TN	0.0%	0.0%	0.0%	25.2%	2.8%
DC	2.0%	0.0%	0.0%	0.0%	1.3%
SC	1.8%	0.0%	0.0%	0.0%	1.2%
MI	0.6%	0.0%	0.0%	0.0%	0.4%
KY	0.6%	0.0%	0.0%	0.0%	0.4%
MN	0.2%	0.0%	0.0%	0.0%	0.1%
NJ	0.2%	0.0%	0.0%	0.0%	0.1%
DE	0.1%	0.0%	0.0%	0.0%	0.1%
Total	100.0%	100.0%	100.0%	100.0%	100.0%

Figure 6 illustrates the growth in RECs retired in total and by fuel type from the introduction of the solar carveout of the RPS requirement in 2008. For the fourth year in a row, wind was the largest contributor of total number of RECs. Total wind RECs retired for compliance have tripled since 2016. In 2020, solar REC retirements grew to be the second largest contributor of RECs, but solar was replaced by hydroelectric in 2023, due to the reintroduction of the Tier 2 requirement. Note that the contributions from qualifying biomass sourced from agricultural crops, geothermal, other biomass liquid and gas, and solar thermal are too small to be seen on this chart.

18,000,000
16,000,000
12,000,000
10,000,000
4,000,000
2,000,000
2,000,000

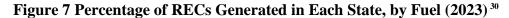
WAT WND BLQ MSW WDS LFG SUN Other

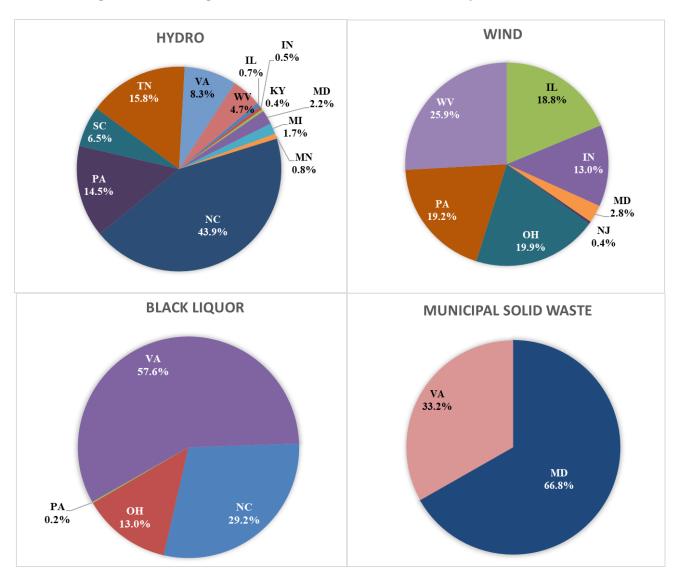
Figure 6 RECs Retired by Fuel Type (2008 – 2023)²⁹

Abbreviations: BLQ, Black Liquor; LFG, Landfill Gas; MSW, Municipal Solid Waste; SUN, Solar Photovoltaic; WAT, Hydroelectric; WDS, Wood and Waste Solids; WND, Wind.

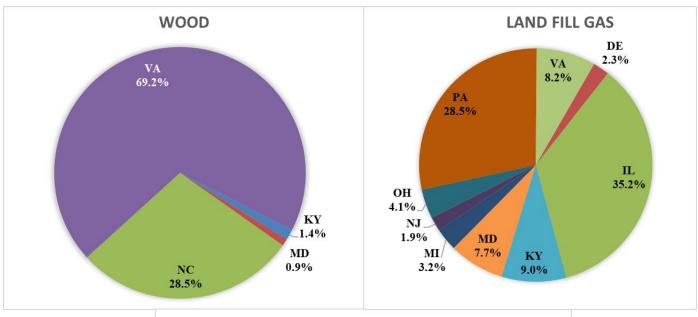
In 2023, all the RECs retired from geothermal, solar and biomass gas sources originated in Maryland, while all waste heat came from the District of Columbia. The seven remaining fuels used to comply with Maryland's 2023 RPS requirements corresponded to RECs generated in multiple other states, and Figure 7 shows the percentage contribution from each state for each of these seven fuels. Facilities located in Maryland provided 52.5 percent of municipal solid waste RECs retired for compliance in 2023. Maryland resources provided only 1.3 percent of wind RECs, 2.2 percent of hydroelectric RECs, 4.0 percent of landfill gas RECs, and 1.6 percent of wood and waste solids RECs. Maryland produced no RECs from black liquor or biomass gas.

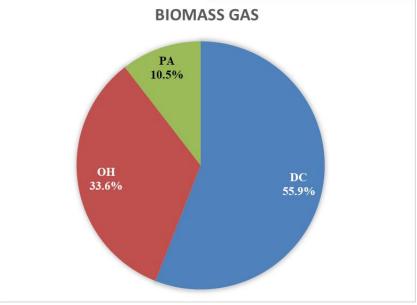
²⁹ Senate Bill 65 of 2021 (Chapter 673) removed black liquor as an eligible resource. However, this law stated that a presently existing obligation or contract right may not be impaired in any way by this Act; so black liquor RECs will remain eligible until certain still existing contracts expire.





³⁰ Additional information pertaining to the source of renewable energy used to meet Maryland's 2023 RPS compliance requirements is presented in Appendices B and C. Appendix B provides a breakdown of the *number of RECs* used by electricity suppliers according to tier, fuel type, and facility location, while Appendix C presents the *number of facilities* by tier, fuel type, and facility location that provided RECs for compliance.





III. MARYLAND RENEWABLE ENERGY FACILITIES

Implementation of the Maryland RPS Program can provide an incentive for renewable generators to locate in Maryland and generate electricity. The renewable requirement establishes a market for renewable energy, and, to the extent Maryland's geography and natural resources can be utilized to generate renewable electricity, developers may locate projects within the state. This section of the report provides information about the REFs located in Maryland in 2023.³¹ Renewable energy generated in Maryland can be used both in Maryland and in other states for

³¹ Specific information pertaining to the State's REFs as described herein was made available by PJM-EIS in the GATS State Agency Report.

RPS compliance purposes, and also can be sold in support of competitive retail electricity supplier product offerings (*i.e.*, green power products).

As shown in Table 9, in 2023, eligible sources located within Maryland generated approximately 1.3 million Tier 1 non-solar RECs, 2.1 million Tier 1 SRECs, and 1.8 million Tier 2 RECs. Additional analyses pertaining to the Maryland-based renewable generators is presented in Appendices C through E. Appendix C shows the disposition of RECs generated in Maryland in 2023. Appendix D provides the number of renewable energy facilities by county that are both located in Maryland and registered with GATS to participate in any one of the PJM states' RPS programs. Appendix E provides the total capacity of these facilities, broken out by county and tier.

Table 9 2023 Maryland-Generated RECs by Fuel Source

	Fuel Type	RECs (Quantity)	RECs (Percent)
	Geothermal	58,387	1.1%
	Landfill Gas	63,174	1.2%
	Municipal Solid Waste	624,627	12.0%
Tier 1	Biomass Solids	19,251	0.4%
	Small Hydro	14,168	0.3%
	Wood Waste	5,186	0.1%
	Wind	481,541	9.3%
Calan	Solar PV	2,087,528	40.3%
Solar	Solar Thermal	2,532	0.0%
Tier 2	Large Hydro	1,829,381	35.3%
Total		5,185,775	100.0%

Table 10 presents additional detail regarding the disposition of Maryland-generated RECs in calendar year 2023. Approximately 35 percent of the RECs generated by renewable facilities located within Maryland during 2023 are available for potential future sale in Maryland or in other states in subsequent compliance years. Almost 47 percent of all RECs generated in Maryland were retired in 2023 to meet the RPS requirements in Maryland and various other PJM states. Labeled as "Other" in Table 10, 19 percent of RECs were used for other purposes which may include pending transfers between parties.

Table 10 Disposition of 2023 Maryland-Generated RECs

REC Tier	Available	RPS Compliance	Other	Total
Tier 1	620,031	645,850	453	1,266,334
Solar	325,062	1,764,767	231	2,090,060
Tier 2	849,719	0	979,662	1,829,381
Total	1,794,812	2,410,617	980,346	5,185,775
(%)	34.6%	46.5%	18.9%	100.0%

Source: PJM-EIS

Table 11 presents, on a state-by-state basis, the distribution of the RECs both generated in-state and retired for RPS compliance purposes. In 2023, Maryland-generated RECs were retired for compliance purposes in five jurisdictions: the District of Columbia, Delaware, Maryland, New Jersey, and Pennsylvania.

Table 11 2023 Maryland-Generated RECs Retired for RPS Compliance by State

Tier	Fuel Type	DC	DE	MD	NJ	PA	Total
	Geothermal	-	-	14,600	-	-	14,600
	Land Fill Gas	-	-	14,113	954	4,029	19,096
	Municipal Waste	-	1	507,929	-	1	507,929
	Biomass Solids			19,251	ı	1	19,251
Tier 1	Small Hydro	-	1	1	8,407	1	8,407
	Wood	-	ı	5,184	-	-	5,184
	Wind	-	47,996	23,387	ı	1	71,383
	Subtotal	-	47,996	584,464	9,361	4,029	645,850
	Percentage	0.0%	7.4%	90.5%	1.4%	0.6%	100.0%
	Solar PV	9,777	-	1,752,872	-	1	1,762,649
Solar	Solar Thermal	-	1	2,118	-	-	2,118
Solar	Subtotal	9,777	-	1,754,990	-	-	1,764,767
	Percentage	0.6%	0.0%	99.4%	0.0%	0.0%	100.0%
	Large Hydro	-	-	-	-	-	-
Tier 2	Subtotal	_	-	-	-	-	0
	Percentage	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%
All	Grand Total	9,777	47,996	2,339,454	9,361	4,029	2,410,617
Tiers	Percentage	0.4%	2.0%	97.0%	0.4%	0.2%	100.0%

Source: PJM-EIS.

IV. GEOTHERMAL CARVE-OUT

In 2021, House Bill 1007³² was signed into law which created a carve-out within Tier 1 for geothermal RECs created by a system with an in-service date of on or after January 1, 2023. The legislation refers to these as "Post–2022 Geothermal Systems" and the carve-out includes a requirement that at least 25% of the required percentage of the RPS percentage derived from post–2022 geothermal systems be derived from low and moderate income ("LMI") systems.

2023 was the first year the post-2022 geothermal carve-out was applicable, and percentage requirements were 0.0375% for non-LMI systems, and 0.0125% for LMI systems, for a total of 0.05%. This results in a REC obligation of 12,937 non LMI GRECs and 4,292 LMI GRECs. A large majority of suppliers met these obligations by paying ACPs, with only 1,032 non-LMI GRECs being retired, and no LMI GRECs. The 1,032 post-2022 GRECs were retired by just two suppliers. These shortfalls resulted in ACP payments of \$1,190,500 for non-LMI GREC obligations and \$429,200 for LMI GREC obligations.

More suppliers could have met the GREC obligations, as a number of post-2022 GRECs remain available, however even if all had been retired, it would only have met 47 percent of the non-LMI GREC obligation, and none of the LMI GREC obligation, as no LMI system applied for GREC certification in 2023. The lack of LMI systems may be in part because the systems approved for Post-2022 GRECs appear to be largely from upper-income families due to the costs of these systems. Data from the applications show that the average size of these homes is 4,068 square feet, and according to Redfin, the average home value was almost \$850,000. The average estimated annual value of GRECs created by these systems is \$4,700 with some residential systems generating over \$12,000 worth of GRECs annually.

V. SMALL SOLAR ENERGY GENERATING SYSTEM INCENTIVE PROGRAM

In 2024, Senate Bill 783³³ was signed into law which established a "Small Solar Energy Generating System Incentive Program" to be administered by the Maryland Public Service Commission. The established program provides that an eligible system can apply to the Commission to become a "Certified System" and receive "Certified" SRECs which shall have a compliance value of 150% for electricity suppliers to apply towards meeting the Renewable Energy Portfolio Standards. To be eligible for this program, a system must: (1) be located in Maryland, (2) be eligible for inclusion in meeting the RPS, (3) have a generating capacity of 5 Megawatts or less, (4) be placed in service between July 1, 2024 and January 1, 2028, and (5) be a specific type of system as further specified within the statute.³⁴ To begin receiving "Certified" SRECs, eligible systems must submit specific application material to the Commission as specified in the statute.³⁵ The Commission will begin accepting applications and determining eligibility of systems no later than January 1, 2025.

³² Chapter 164 of the Acts of 2021.

³³ Chapter 595 of the Laws of Maryland 2024.

³⁴ PUA §7-709.1(D)(5).

³⁵ PUA §7-709.1(E).

In light of the requirements to establish the Small Solar Energy Generating System Incentive Program, the Commission is undergoing a process to update its existing REC application portal and procedures. This new program will likely have an impact on Maryland's Renewable Portfolio Standard in the future and the Commission will continue to provide updates on this program in future Renewable Energy Portfolio Standard Reports.

VI. CONCLUSION

The electricity supplier compliance reports for 2023, verified by the Commission, indicate that approximately 44 percent of Maryland RPS obligations were met via the purchase and retirement of RECs with \$320.4 million in ACPs. Approximately 35 percent of RECs used for compliance in 2023 came from in-state resources, up from 19 percent in 2022, RECs derived from three fuel types—solar (27.5 percent), wind (19.9 percent), and black liquor (16.1 percent)—were the predominant sources of Tier 1 compliance in 2023. Throughout this next year, the Commission will continue to: review applications from facilities requesting certification as a Maryland REF, oversee the RPS Program, and verify that the electricity suppliers in Maryland procure enough electricity generated by renewable resources. As noted in this report, compliance with the Renewable Portfolio Standard by electricity suppliers that was achieved through the purchase of ACPs (rather than the retirement of RECs) was by far the largest in the history of the RPS. The Commission will continue to monitor this matter in future reports.

APPENDICES

Appendix A 2023 Retired RECs by Facility

Facility Name	State	Fuel	Quantity	BLQ %	Tier 1
Covington Facility - MeadWestvaco Covington P	VA	BLQ	194,097	17.20%	3.82%
Domtar Paper Co LLC Plymouth NC - TG 7-9-10	NC	BLQ	219,787	19.48%	4.33%
Franklin Mill - #6 R.B./#9T.G.	VA	BLQ	196,450	17.41%	3.87%
Hopewell Mill - Gen 1	VA	BLQ	96,781	8.58%	1.91%
Kapstone Kraft Paper Corporation - Generator 1	NC	BLQ	109,313	9.69%	2.15%
Pixelle Specialty Solutions - Spring Grove - Gen 1-6	PA	BLQ	2,170	0.19%	0.04%
Pixelle Specialty Solutions -Chillicothe - T10-T13	ОН	BLQ	146,532	12.99%	2.89%
West Point Mill - GEN8-12	VA	BLQ	163,029	14.45%	3.21%
		Total	1,128,159	100.00%	22.22%
Facility Name	State	Fuel	Quantity	LFG %	Tier 1
ACE CUMBERLAND CTY 1 LF - 11	NJ	LFG	1,567	0.78%	0.03%
AEP CLOYDS MT 1 LF – 1	VA	LFG	2,743	1.37%	0.05%
AEP ORCHARD HILLS 1 LF - 1	MI	LFG	6,387	3.18%	0.13%
Bavarian LFGTE - Bavarian	KY	LFG	8,154	4.06%	0.16%
Beecher – Beecher	IL	LFG	304	0.15%	0.01%
Blue Ridge LFGTE – 1	PA	LFG	27,279	13.58%	0.54%
Broad Mountain BTM - Parasitic Load	PA	LFG	991	0.49%	0.02%
CCIA BTM – 2	NJ	LFG	1,069	0.53%	0.02%
CID - LFG Turbines	IL	LFG	11,060	5.50%	0.22%
Croda Atlas Point CHP - Units 1 and 2	DE	LFG	4,492	2.24%	0.09%
DPL NEWLAND PARK 1 LF - 1	MD	LFG	1,298	0.65%	0.03%
DPL SOUTHERN 1 LF – 1	DE	LFG	66	0.03%	0.00%
Eastern LFG BTM – 1	MD	LFG	6,725	3.35%	0.13%
Eastern LFG BTM – 2	MD	LFG	7,388	3.68%	0.15%
FE CARBON ALUM 1 LF - 1	ОН	LFG	907	0.45%	0.02%
FE LORAIN 1 LF – 1	ОН	LFG	2,057	1.02%	0.04%
Frey Farm Landfill – 1	PA	LFG	9,432	4.69%	0.19%
Green Valley LFGTE - Green Valley	KY	LFG	2,543	1.27%	0.05%
Greene Valley - Landfill Gas Turbines	IL	LFG	17,132	8.53%	0.34%
Hardin County LFGTE - Hardin County	KY	LFG	1,877	0.93%	0.04%
Lake Gas Recovery - Gas Turbines	IL	LFG	4,847	2.41%	0.10%
Laurel Ridge LFGTE - Laurel Ridge	KY	LFG	2,054	1.02%	0.04%
Lorain County Power Station - Units 1-18	ОН	LFG	174	0.09%	0.00%
Lycoming Landfill – 1	PA	LFG	11,997	5.97%	0.24%
Pendleton County LFGTE - Pendleton County	KY	LFG	3,387	1.69%	0.07%
Pennsauken Landfill - Pennsauken Landfill	NJ	LFG	1,231	0.61%	0.02%
PN SHIPPENSBURG 1 LF - 1	PA	LFG	3,037	1.51%	0.06%
Prairie View RDF Landfill Gas-to-Energy	IL	LFG	14,708	7.32%	0.29%

Pachalla Fraggitt C. Bachalla Fraggitt C		150	0.45	0.420/	0.020/
Rochelle Energy LLC - Rochelle Energy LLC	IL 	LFG	845	0.42%	0.02%
Settlers Hill - LFG Turbines	IL OU	LFG	13,563	6.75%	0.27%
Suburban Landfill Generator - Suburban Landfill Tullytown Landfill Gas-to-Energy Facility - Tullytown	OH PA	LFG LFG	5,104	2.54%	0.10%
VP BETHEL 1 LF – 1	VA	LFG	4,532	2.26% 1.10%	0.09% 0.04%
VP CHARLES CITY 1 CT – 1	VA VA	LFG	2,205 18	0.01%	0.04%
VP CHARLES CITT 1 CT = 1 VP CHESTERFIELD 1 LF = 1	VA	LFG	5,456	2.72%	0.00%
VP OCCOQUAN 2 LF – 2	VA	LFG	6,063	3.02%	0.11%
VP VIRGINIA BEACH 1 LF - 1	VA	LFG	21	0.01%	0.12%
Woodland - LFG Engines	VA IL	LFG	8,220	4.09%	0.00%
Woodiand - LFG Engines	IL	Total	200,933	4.09% 100.00%	3.96%
		TOLAI	200,933	100.00%	3.30%
Facility Name	State	Fuel	Quantity	MSW %	Tier 1
Covanta Fairfax Energy - 1	VA	MSW	329,763	33.23%	6.50%
Montgomery County Resource Recovery - GEN1	MD	MSW	283,616	28.58%	5.59%
Montgomery County Resource Recovery - Gen 2	MD	MSW	12,126	1.22%	0.24%
Wheelabrator Baltimore Refuse - GEN1	MD	MSW	366,929	36.97%	7.23%
		Total	992,434	100.00%	19.55%
Facility Name	State	Fuel	Quantity	OBG %	Tier 1
Allentown Wastewater Treatment Plant	PA	OBG	2,038	10.47%	0.04%
Buckeye BioGas - Wooster - OARDC	ОН	OBG	3,575	18.36%	0.07%
DC Water Bailey Bioenergy Facility - GTG1	DC	OBG	2,169	11.14%	0.04%
DC Water Bailey Bioenergy Facility - GTG2	DC	OBG	4,179	21.46%	0.08%
DC Water Bailey Bioenergy Facility - GTG3	DC	OBG	4,542	23.33%	0.09%
Haviland Energy - Haviland	ОН	OBG	2,967	15.24%	0.06%
		Total	19,470	100.00%	0.38%
Facility Name	Ctata	Fuel	Overstitu	OPC 9/	Tion 1
Facility Name	State	Fuel	Quantity	OBG %	Tier 1
Pocomoke Drying Plant - Pocomoke Dryer	MD	OBS	11,638	60.45%	0.23%
Salisbury Drying Plant - Salisbury Dryer	MD	OBS	7,613	39.55%	0.15%
		Total	19,251	100.00%	0.38%
Facility Name	State	Fuel	Quantity	WAT %	Tier 1
AEP BUCK-BYLLESBY 1 H - 1	VA	WAT	41,271	7.87%	0.81%
AEP FRIES HYDRO – 1	VA	WAT	3,695	0.70%	0.07%
Allegheny 5 – 1	PA	WAT	12,928	2.47%	0.25%
Allegheny Lock& Dam No 6 Hydro Project – 2	PA	WAT	18,174	3.47%	0.36%
Allegheny River Lock and Dam No. 8 -	PA	WAT	74,019	14.12%	1.46%
Allegheny River Lock and Dam No. 9	PA	WAT	79,951	15.25%	1.57%
AP MISC HYDRO H – 1	WV	WAT	5,784	1.10%	0.11%
Appomattox River Associates, LP Brasfield	VA	WAT	108	0.02%	0.00%
Banister Hydro, Inc - Halifax Hydroelectric Project	VA	WAT	26	0.00%	0.00%
			_		

Beaver Valley Patterson Dam - 1	PA	WAT	1,448	0.28%	0.03%
Berrien Springs - 1A	MI	WAT	8,154	1.55%	0.16%
Big Shoals Hydro - Unit # 1	VA	WAT	510	0.10%	0.01%
Buchanan – 1	MI	WAT	4,862	0.93%	0.10%
Buzzards Roost Hydro - IMPORT Gen1-3	SC	WAT	37,605	7.17%	0.74%
City of Radford Municipal Hydroelectric Project	VA	WAT	2,457	0.47%	0.05%
City of Rock Falls Upper Sterling Hydro	IL	WAT	6,282	1.20%	0.12%
Coleman Falls Hydro - Unit # 1	VA	WAT	4,566	0.87%	0.09%
Constantine – 1	MI	WAT	2,285	0.44%	0.05%
Cushaw – 1	VA	WAT	14,358	2.74%	0.28%
Dixon Hydroelectric Dam - Dixon Hydroelectric Dam	IL	WAT	88	0.02%	0.00%
Elkhart – 1	IN	WAT	829	0.16%	0.02%
French Paper Co - Unit 1 - 4	MI	WAT	6,330	1.21%	0.12%
Great Falls Hydro Project - HY1	NJ	WAT	194	0.04%	0.00%
Holcomb Rock Hydro - Unit # 1	VA	WAT	5,518	1.05%	0.11%
Lockhart Power Hydro - IMPORT Gens1-5	SC	WAT	53,260	10.16%	1.05%
Lockport Powerhouse Hydroelectric Facility	IL	WAT	3,005	0.57%	0.06%
London – 1	WV	WAT	26,767	5.10%	0.53%
Marmet – 1	WV	WAT	10,986	2.10%	0.22%
Mottville – 1	MI	WAT	2,398	0.46%	0.05%
Niagara – 1	VA	WAT	3,329	0.63%	0.07%
Pinnacles Hydro Power Project - Units 1-3	VA	WAT	17,877	3.41%	0.35%
Ravenna Hydroelectric Project - Ravenna 1,2,3,4,5	KY	WAT	5,268	1.00%	0.10%
Reusens – 1	VA	WAT	7,453	1.42%	0.15%
Schoolfield Dam - Schoolfield	VA	WAT	8,568	1.63%	0.17%
Snowden Hydro Site - Unit # 1	VA	WAT	7,000	1.33%	0.14%
Swift Creek Hydro, Inc Lakeview Hydroelectic	VA	WAT	75	0.01%	0.00%
Twin Branch – 1	IN	WAT	6,314	1.20%	0.12%
Twin Cities Hydro LLC - Eligible - Units 1-4	MN	WAT	11,441	2.18%	0.23%
Winfield – 1	WV	WAT	21,828	4.16%	0.43%
York Haven – 1	PA	WAT	2,766	0.53%	0.05%
Yough Hydro Power – 1	PA	WAT	4,613	0.88%	0.09%
		Total	524,390	100.00%	10.33%
Facility Name	State	Fuel	Quantity	WDS %	Tier 1
Covington Facility - MeadWestvaco Covington	VA	WDS	38,424	5.64%	0.76%
Cox Waste-to-Energy Cogeneration Plant	KY	WDS	9,404	1.38%	0.19%
Domtar Paper Co LLC Plymouth NC - TG 7-9-10	NC	WDS	168,532	24.75%	3.32%
Eastern Correctional Institution	MD	WDS	6,127	0.90%	0.12%
Hopewell Mill - Gen 1	VA	WDS	21,622	3.18%	0.43%
Kapstone Kraft Paper Corporation - Generator 1	NC	WDS	25,425	3.73%	0.50%
VP SOUTH BOSTON 1 F - 1	VA	WDS	375,139	55.10%	7.39%
West Point Mill - GEN8-12	VA	WDS	36,183	5.31%	0.71%
Vest i Silit Willi SENS 12	٧,١	** 55	30,103	J.J1/0	0.71/0

		Total	680,856	100.00%	13.41%
Facility Name	State	Fuel	Quantity	WH %	Tier 1
Blue Plains Wastewater Treatment Plant Digestors	DC	WH	78,742	87.92%	1.55%
DC Water Bailey Bioenergy Facility - CHP Steam	DC	WH	8,873	9.91%	0.17%
HQO - Sharc Wastewater Thermal Facility	DC	WH	1,947	2.17%	0.04%
		Total	89,562	100.00%	1.76%
Facility Name	State	Fuel	Quantity	WND %	Tier 1
AE ONTARIO WF – 1	NJ	WND	2,423	0.17%	0.05%
AEP BITTER RIDGE 1 WF - 1	IN	WND	657	0.05%	0.01%
AEP BLUE CREEK 3 WF – 3	ОН	WND	9,122	0.65%	0.18%
AEP BLUFF POINT 2 WF - 2	IN	WND	16,802	1.20%	0.33%
AEP FOWLER RIDGE 1B WF - 2	IN	WND	1,057	0.08%	0.02%
AEP FOWLER RIDGE 2-1 WF - 21	IN	WND	29,839	2.13%	0.59%
AEP FOWLER RIDGE 2-3 WF - 23	IN	WND	11,136	0.80%	0.22%
AEP FOWLER RIDGE 3 WF - 3	IN	WND	16,348	1.17%	0.32%
AEP HOG CREEK 1 WF – 1	ОН	WND	195,478	13.98%	3.85%
AEP MEADOW LAKE 1 WF - 1	IN	WND	2,444	0.17%	0.05%
AEP MEADOW LAKE 2 WF - 2	IN	WND	5,456	0.39%	0.11%
AEP MEADOW LAKE 3 WF - 3	IN	WND	18,301	1.31%	0.36%
AEP MEADOW LAKE 4 WF - 4	IN	WND	21,716	1.55%	0.43%
AEP MEADOW LAKE 5 WF - 5	IN	WND	810	0.06%	0.02%
AEP MEADOW LAKE 6 WF - 6	IN	WND	17,024	1.22%	0.34%
AEP TRISHE 1 WF – 1	ОН	WND	7,482	0.54%	0.15%
AEP WILDCAT 1A WF – 1	IN	WND	10,418	0.75%	0.21%
AEP WILDCAT 1B WF – 2	IN	WND	6,993	0.50%	0.14%
AMP Wind Farm / OMEGA JV 6 - AMP Wind Farm	ОН	WND	259	0.02%	0.01%
AP BEECH RIDGE 1 WF – 1	WV	WND	18,078	1.29%	0.36%
AP GREENLAND GAP 1 WF - 1	WV	WND	108,555	7.76%	2.14%
AP PINNACLE 1 WF – 1	WV	WND	202,517	14.48%	3.99%
AP ROTH ROCK 1 WF – 1	MD	WND	39,561	2.83%	0.78%
Ball Metal Beverage Container Corp Zephyr Wind	ОН	WND	8,146	0.58%	0.16%
Bishop Hill Wind Farm – 1	IL	WND	37,918	2.71%	0.75%
COM ADAM 1 WF – 1	IL	WND	1,200	0.09%	0.02%
COM BLOOMING GROVE 1 WF1 - 1	IL	WND	12,188	0.87%	0.24%
COM BRIGHT STALK 1 WF - 1	IL	WND	3,443	0.25%	0.07%
COM CAMP GROVE 1 WF - 1	IL	WND	124	0.01%	0.00%
COM CAMP GROVE 2 WF - 2	IL	WND	21,126	1.51%	0.42%
COM CAYUGA RIDGE 1 WF - 1	IL	WND	13,306	0.95%	0.26%
COM GRAND RIDGE 2 WF - 2	IL	WND	4,317	0.31%	0.09%
COM GRAND RIDGE 3 WF - 3	IL	WND	4,013	0.29%	0.08%
COM GREEN RIVER 1 WF - 1	IL	WND	4,638	0.33%	0.09%

COM GREEN RIVER 2 WF - 2	IL	WND	2,721	0.19%	0.05%
COM HILLTOPPER 1 WF - 1	IL	WND	1,969	0.14%	0.03%
COM LONE TREE 3 WF – 3	IL	WND	614	0.04%	0.01%
COM MINONK 1 WF – 1	IL	WND	6,000	0.43%	0.12%
COM OTTER CREEK 1 WF - 1	IL	WND	26,833	1.92%	0.53%
COM RADFORDS RUN 1 WF - 1	IL	WND	55,837	3.99%	1.10%
COM TOP CROP 2 WF – 2	IL	WND	1,031	0.07%	0.02%
COM WALNUT RIDGE 1 WF - 1	IL	WND	65,000	4.65%	1.28%
COM WHITNEY HILL 2 WF - 2	IL	WND	58	0.00%	0.00%
Findlay Wind Farm - Findlay Wind Farm	OH	WND	5,573	0.40%	0.11%
Fowler Ridge II Wind Farm - Vectren - Vectren - FR2	IN	WND	22,419	1.60%	0.44%
Harpster Wind - Harpster Wind	ОН	WND	2,115	0.15%	0.04%
Haviland Wind Farm - WTG A	ОН	WND	4,357	0.13%	0.09%
Haviland Wind Farm - WTG B	ОН	WND	3,927	0.28%	0.08%
Haviland Wind Farm - WTG C	ОН	WND	3,565	0.25%	0.07%
Holcim-Paulding Wind Project - Holcim-Paulding	ОН	WND	8,643	0.62%	0.17%
Jersey-Atlantic Wind, LLC - 1-5	NJ	WND	3,227	0.23%	0.06%
PN ARMENIA MOUNTAIN 1 WF - 1	PA	WND	3,719	0.27%	0.07%
PN HIGHLAND NORTH 2 WF - 2	PA	WND	556	0.04%	0.01%
PN LAUREL HILLS 1 WF - 1	PA	WND	2,802	0.20%	0.06%
PN LOOKOUT 1 WF – 1	PA	WND	85,959	6.15%	1.69%
PN MEHOOPANY 2 WF - 2	PA	WND	73,154	5.23%	1.44%
PN NORTH ALLEGHENY 2 WF - 2	PA	WND	49,119	3.51%	0.97%
PN SANDY RIDGE 1 WF - 1	PA	WND	5,000	0.36%	0.10%
PN STONY CREEK 1 WF - 1	PA	WND	48,786	3.49%	0.96%
Valfilm Wind Project - Valfilm Wind Project	ОН	WND	4,825	0.35%	0.10%
VP NEW CREEK 1 WF – 1	WV	WND	32,766	2.34%	0.65%
Whirlpool Corporation - Greenville Wind Farm	ОН	WND	7,317	0.52%	0.14%
Whirlpool Corporation - Ottawa Wind Farm	ОН	WND	2,918	0.21%	0.06%
Whirlpool Corporation-Marion Wind Farm	ОН	WND	6,745	0.48%	0.13%
Zephyr Wind - Zephyr Wind	ОН	WND	7,754	0.55%	0.15%
		Total	1,398,204	100.00%	27.54%
Facility Name	State	Fuel	Quantity	WAT %	Tier 2
AEP CALDERWOOD 1 H - 1	TN	WAT	77,399	8.78%	8.78%
AEP CHEOAH 1 H – 1	NC	WAT	128,713	14.61%	14.61%
Calderwood - Eligible – 1	TN	WAT	56,406	6.40%	6.40%
Cheoah - Eligible — 1	NC	WAT	129,132	14.65%	14.65%
Chilhowee - Eligible - 1-3	TN	WAT	88,150	10.00%	10.00%
Conowingo – 99	MD	WAT	31,601	3.59%	3.59%
Covanta New Martinsville Energy - 1	WV	WAT	639	0.07%	0.07%
Falls – IMPORT	NC	WAT	53,009	6.02%	6.02%
High Rock – IMPORT	NC	WAT		3.66%	3.66%

Lake Lynn Power Station - 1	PA	WAT	54	0.01%	0.01%
Narrows – IMPORT	NC	WAT	159,820	18.14%	18.14%
Piney – 31	PA	WAT	1,822	0.21%	0.21%
Safe Harbor – 6	PA	WAT	337	0.04%	0.04%
Safe Harbor – 8	PA	WAT	8,044	0.91%	0.91%
Santeetlah - Eligible - 1-2	NC	WAT	72,327	8.21%	8.21%
Tuckertown – IMPORT	NC	WAT	41,528	4.71%	4.71%
		Total	881,241	100.00%	100.00%
Tier 1 REC Total	5,0	76,904			
SREC Total	1,9	33,341			
Tier 2 REC Total	8	81,241			
Grand Total	7,8	391,486			

^{*}Neither solar nor geothermal facilities are represented in this table. In 2023, 81,567 facilities produced 1,933,341 SRECs, and 1,134 facilities produced 23,645 GRECs.

Appendix B Location of Facilities that Provided RECs for 2023 RPS Compliance

	DC	DE	IL	IN	KY	MD	MI	MN	NC	NJ	ОН	PA	SC	TN	VA	WV	Total
Tier 1																	
Black Liquor	-	-	-	-	-	-	-	-	2	-	1	1	-	-	4	-	8
Geothermal	_	-	-	-	-	1,134	-	-	-	-	-	-	-	-	-	-	1,134
Landfill Gas	-	2	8	-	5	3	1	-	-	2	4	6	-	-	6	-	37
Municipal Solid Waste	-	-	-	-	-	2	-	-	-	-	-	-	-	-	1	-	3
Other Biomass Gas	1	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	4
Other Biomass Solids	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2
Small Hydro	-	-	3	2	1	-	5	1	-	1	-	7	2	-	15	4	41
Waste Heat	3	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	3
Wood Waste	-	-	-	-	1	1	-	-	2	-	-	-	-	-	4	-	8
Wind	-	-	18	12	-	1	-	-	-	1	14	8	-	-	-	4	58
Tier 1 Solar	_'																
Solar PV	-	-	-	-	-	80,856	-	-	-	-	-	-	-	-	-	-	80,856
Solar Thermal	-	-	1	-	-	720	-	-	-	-	-	-	-	-	-	-	720
Tier 2	Tier 2																
Large Hydro	-	-	ı	ı	-	1	ı	ı	6	-	ı	3	ı	2	ı	1	13
Total	4	2	29	14	7	82,720	6	1	10	4	21	26	2	2	30	9	82,887

Note: In order to prevent double counting, facilities using multiple fuels are only listed under their primary fuel.

Appendix C Disposition of 2023 Vintage RECs Generated in Maryland

Fuel Type and Tier		REC	s Retired fo	Available	Other	Total RECs Generated			
	DC	DE	MD	NJ	PA	Total			
Geothermal	-	-	-	-	-	14,600	43,787	-	58,387
Landfill Gas	-	-	14,600	-	-	19,096	44,078	-	63,174
Municipal Solid Waste	-	-	14,113	954	4,029	507,929	116,698	-	624,627
Biomass Solids	-	-	507,929	-	-	19,251	-	-	19,251
Small Hydro	-	-	19,251	-	-	8,407	5,761	-	14,168
Wind	-	-	-	8,407	-	71,383	409,705	453	481,541
Wood Waste	-	47,996	23,387	-	-	5,184	2	-	5,186
Tier 1 Non-solar Total	-	-	5,184	-	-	645,850	620,031	453	1,266,334
Solar PV	-	47,996	584,464	9,361	4,029	1,762,649	324,648	231	2,087,528
Solar Thermal	9,777	-	1,752,872	-	-	2,118	414	-	2,532
Tier 1 Solar Total	_	-	2,118	-	-	1,764,767	325,062	231	2,090,060
Large Hydro	9,777	1	1,754,990	1	1	-	849,719	979,662	1,829,381
Tier 2 Total	-	-	-	-	-	-	849,719	979,662	1,829,381
Grand Total	9,777	47,996	2,339,454	9,361	4,029	2,410,617	1,794,812	980,346	5,185,775

Appendix D Number of Renewable Energy Facilities Located in Maryland

Maryland County	Tier 1	Solar	Tier 2	Total
Allegany	-	84	-	84
Anne Arundel	160	10,795	-	10,955
Baltimore	344	10,024	-	10,368
Baltimore City	13	1,502	-	1,515
Calvert	34	1,080	-	1,114
Caroline	-	430	-	430
Carroll	51	2,757	-	2,808
Cecil	48	2,057	-	2,105
Charles	21	3,601	-	3,622
Dorchester	2	442	-	444
Frederick	96	3,697	-	3,793
Garrett	6	76	-	82
Harford	266	4,897	1	5,164
Howard	171	5,331	-	5,502
Kent	6	418	-	424
Montgomery	137	15,319	-	15,456
Prince Georges	35	24,698	-	24,733
Queen Annes	10	849	-	859
Somerset	1	352	-	353
St Mary's	17	1,889	-	1,906
Talbot	6	327	-	333
Washington	68	1,345	-	1,413
Wicomico	4	1,409	-	1,413
Worcester	4	621	-	625
Total	1,500	94,000	1	95,501

Note: This list includes all renewable generators that are both: 1) located within Maryland, and 2) registered to participate in any one of the PJM states' renewable energy programs as of July 1, 2024.

Appendix E Capacity of Renewable Energy Facilities Located in Maryland (MW)

Maryland County	Tier 1	Solar	Tier 2	Total
Allegany	-	6.3	-	6.3
Anne Arundel	8.7	165.7	-	174.4
Baltimore	81.6	170.1	-	251.7
Baltimore City	0.9	29.9	-	30.9
Calvert	1.4	13.8	-	15.2
Caroline	-	14.7	-	14.7
Carroll	1.8	73.3	-	75.1
Cecil	1.8	52.6	-	54.3
Charles	0.9	90.7	-	91.6
Dorchester	0.0	78.1	-	78.1
Frederick	3.3	108.7	-	112.0
Garrett	210.0	15.3	-	225.3
Harford	10.3	87.4	474.0	571.7
Howard	7.5	127.2	-	134.8
Kent	0.2	22.8	-	23.0
Montgomery	83.7	187.4	-	271.1
Prince George's	14.5	342.0	-	356.4
Queen Anne's	0.5	148.3	-	148.9
Somerset	3.8	154.5	-	158.3
St. Mary's	0.7	21.6	-	22.3
Talbot	69.4	15.1	-	84.6
Washington	2.6	100.2	-	102.7
Wicomico	13.4	51.3	-	64.7
Worcester	7.4	25.8	-	33.2
Total	524.4	2,102.9	474.0	3,101.3

Note: This list includes all renewable generators that are both: 1) located within Maryland, and 2) registered to participate in any one of the PJM states' renewable energy programs as of July 1, 2024.

Appendix F Maryland Certified Renewable Energy Facilities³⁶

ACE CUMBERLAND CTY I LF AE ONTARIO WF AE ONTARIO WF AE ONTARIO WF AEP BITTER RIDGE I WF IN O9/01/2020 MD-20166-WND-01 AEP BITTER RIDGE I WF IN O9/01/2020 MD-20208-WND-01 AEP BLUE CREEK 3 WF OH 10/01/2011 MD-20141-WND-01 AEP BLUF POINT 2 WF IN O9/01/2017 AEP BLUESBY I H VA O1/01/1912 MD-20182-WND-01 AEP BUCK-BYLLESBY I H VA 12/01/2014 MD-40197-LFG-01 AEP ELKHART I LF IN 10/01/2010 MD-40206-LFG-01 AEP FOWLER RIDGE IA WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE IB WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 2-1 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20139-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2015 MD-20172-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2015 MD-20138-WND-01 AEP FOWLER RIDGE 5-1 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2019 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2019 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2019 MD-20138-WND-01 AEP FOWLER RIDGE 5-1 WF IN 12/01/2015 MD-20172-WND-01 AEP FRIES HYDRO VA 01/01/1933 MD-90177-WAT-01 AEP HEADWATERS 1 WF IN 10/01/2011 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-2018-WND-01 AEP MEADOW LAKE 3 WF IN 04/01/2005 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 10/01/2010 MD-20133-WN			Date	
AE ONTARIO WF AEP BITTER RIDGE 1 WF IN 09/01/2020 MD-20166-WND-01 AEP BLUE CREEK 3 WF OH 10/01/2011 MD-20141-WND-01 AEP BLUF POINT 2 WF IN 09/01/2017 MD-20182-WND-01 AEP BUCK-BYLLESBY 1 H VA 01/01/1912 MD-90204-WAT-01 AEP CLOYDS MT 1 LF VA 12/01/2014 MD-40197-LFG-01 AEP ELKHART 1 LF IN 10/01/2010 MD-40206-LFG-01 AEP FOWLER RIDGE 1A WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 1B WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 1C WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 2-1 WF IN 12/01/2009 MD-20113-WND-01 AEP FOWLER RIDGE 2-1 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-2 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2015 MD-20172-WND-01 AEP HEADWATERS 1 WF IN 10/01/2011 MD-90220-WAT-01 AEP HEADWATERS 1 WF IN 10/01/2011 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2017 MD-20186-WND-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 1 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 3 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 3 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 10/01/2018 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 10/01/2018 MD-20177-WND-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 3 WF OH 11/01/2020 MD-20215-WND-01	Plant Name	State	Online	Maryland
AEP BITTER RIDGE 1 WF AEP BLUE CREEK 3 WF OH 10/01/2011 MD-20208-WND-01 AEP BLUE CREEK 3 WF OH 10/01/2011 MD-20141-WND-01 AEP BLUFF POINT 2 WF IN 09/01/2017 MD-20182-WND-01 AEP BUCK-BYLLESBY 1 H VA 01/01/1912 MD-90204-WAT-01 AEP CLOYDS MT 1 LF VA 12/01/2014 MD-40197-LFG-01 AEP ELKHART 1 LF IN 10/01/2010 MD-40206-LFG-01 AEP FOWLER RIDGE 1A WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 1B WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 1C WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 2-1 WF IN 12/01/2009 MD-20113-WND-01 AEP FOWLER RIDGE 2-1 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 02/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 02/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2015 MD-20172-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2011 MD-90220-WAT-01 AEP GLEN FERRIS 1 H WV 12/01/2011 MD-90220-WAT-01 AEP HEADWATERS 1 WF IN 10/01/2014 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20216-WND-01 AEP HEADWATERS 2 WF IN 01/01/2010 MD-20131-WND-01 AEP MEADOW LAKE 1 WF IN 04/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 3 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 3 WF IN 07/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 10/01/2018 MD-20193-WND-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 3 WF OH 11/01/2020 MD-20215-WND-01		NJ	11/01/2008	MD-40139-LFG-01
AEP BLUE CREEK 3 WF	AE ONTARIO WF	NJ	12/01/2005	MD-20166-WND-01
AEP BLUFF POINT 2 WF AEP BUCK-BYLLESBY 1 H VA 01/01/1912 MD-90204-WAT-01 AEP CLOYDS MT 1 LF VA 12/01/2014 MD-40197-LFG-01 AEP ELKHART 1 LF IN 10/01/2010 MD-40206-LFG-01 AEP FOWLER RIDGE 1A WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 1B WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 1C WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 2-1 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-2 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2019 MD-20172-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2019 MD-20172-WND-01 AEP HEADWATERS 1 WF IN 10/01/2011 MD-90220-WAT-01 AEP HEADWATERS 1 WF IN 10/01/2014 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 10/01/2014 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2014 MD-20168-WND-01 AEP HEADWATERS 2 WF IN 01/01/2017 MD-20186-WND-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 3 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 4 WF IN 10/01/2017 MD-20186-WND-01 AEP MEADOW LAKE 5 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 10/01/2011 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 10/01/2013 MD-20193-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP PAULDING 3 WF OH 11/01/2016 MD-2017-WND-01 AEP PAULDING 3 WF OH 11/01/2010 MD-20155-WND-01	AEP BITTER RIDGE 1 WF	IN	09/01/2020	MD-20208-WND-01
AEP BUCK-BYLLESBY I H AEP CLOYDS MT 1 LF VA 12/01/2014 MD-90204-WAT-01 AEP CLOYDS MT 1 LF VA 12/01/2014 MD-40197-LFG-01 AEP ELKHART 1 LF IN 10/01/2010 MD-40206-LFG-01 AEP FOWLER RIDGE 1A WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 1B WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 1C WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 2-1 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-2 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 02/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 12/01/2009 MD-20139-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2015 MD-20172-WND-01 AEP FRIES HYDRO VA 01/01/1933 MD-90177-WAT-01 AEP GLEN FERRIS 1 H WV 12/01/2011 MD-90220-WAT-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2014 MD-20163-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP MEADOW LAKE 1 WF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 3 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 4 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 07/01/2010 MD-20133-WND-01 AEP PAULDING 3 WF OH 01/01/2020 MD-20215-WND-01	AEP BLUE CREEK 3 WF	ОН	10/01/2011	MD-20141-WND-01
AEP CLOYDS MT 1 LF AEP ELKHART 1 LF IN 10/01/2010 MD-40206-LFG-01 AEP FOWLER RIDGE 1A WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 1B WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 1C WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 2-1 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-2 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 02/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 02/01/2009 MD-20139-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2015 MD-20172-WND-01 AEP FRIES HYDRO VA 01/01/1933 MD-90177-WAT-01 AEP GLEN FERRIS 1 H WV 12/01/2011 MD-90220-WAT-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20216-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20186-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20132-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 10/01/2018 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-2017-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP PAULDING 3 WF OH 11/01/2016 MD-2017-WND-01 AEP PAULDING 41 WF	AEP BLUFF POINT 2 WF	IN	09/01/2017	MD-20182-WND-01
AEP ELKHART 1 LF AEP FOWLER RIDGE 1A WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 1B WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 1C WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 1C WF IN 12/01/2009 MD-20113-WND-01 AEP FOWLER RIDGE 2-1 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 02/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2015 MD-20139-WND-01 AEP FRIES HYDRO VA 01/01/1933 MD-90177-WAT-01 AEP GLEN FERRIS 1 H WV 12/01/2011 MD-90220-WAT-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20163-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP MEADOW LAKE 1 WF IN 04/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20132-WND-01 AEP MEADOW LAKE 3 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 10/01/2018 MD-2017-WND-01 AEP MEADOW LAKE 6 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 10/01/2018 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20133-WND-01 AEP PAULDING 4 WF	AEP BUCK-BYLLESBY 1 H	VA	01/01/1912	MD-90204-WAT-01
AEP FOWLER RIDGE 1A WF AEP FOWLER RIDGE 1B WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 1C WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 2-1 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-2 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 02/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2019 MD-20139-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2015 MD-20172-WND-01 AEP FRIES HYDRO VA 01/01/1933 MD-90177-WAT-01 AEP GLEN FERRIS 1 H WV 12/01/2011 MD-90220-WAT-01 AEP HEADWATERS 1 WF IN 10/01/2014 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20216-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP JAY COUNTY 1 LF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 1 WF IN 10/01/2010 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 10/01/2018 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 10/01/2018 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 01/01/2018 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20133-WND-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20155-WND-01	AEP CLOYDS MT 1 LF	VA	12/01/2014	MD-40197-LFG-01
AEP FOWLER RIDGE 1B WF AEP FOWLER RIDGE 1C WF IN 02/01/2009 MD-20112-WND-01 AEP FOWLER RIDGE 2-1 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-2 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 02/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 02/01/2009 MD-20139-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2015 MD-20172-WND-01 AEP FRIES HYDRO VA 01/01/1933 MD-90177-WAT-01 AEP GLEN FERRIS 1 H WV 12/01/2011 MD-90220-WAT-01 AEP HEADWATERS 1 WF IN 10/01/2014 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20216-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP JAY COUNTY 1 LF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 10/01/2018 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20177-WND-01 AEP PAULDING 3 WF OH 11/01/2020 MD-20215-WND-01	AEP ELKHART 1 LF	IN	10/01/2010	MD-40206-LFG-01
AEP FOWLER RIDGE 1C WF AEP FOWLER RIDGE 2-1 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-2 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 02/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 02/01/2009 MD-20139-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2015 MD-20172-WND-01 AEP FRIES HYDRO VA 01/01/1933 MD-90177-WAT-01 AEP GLEN FERRIS 1 H WV 12/01/2011 MD-90220-WAT-01 AEP HEADWATERS 1 WF IN 10/01/2014 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20216-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP JAY COUNTY 1 LF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 5 WF IN 10/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2018 MD-20177-WND-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01	AEP FOWLER RIDGE 1A WF	IN	02/01/2009	MD-20112-WND-01
AEP FOWLER RIDGE 2-1 WF AEP FOWLER RIDGE 2-2 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 02/01/2009 MD-20139-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2015 MD-20172-WND-01 AEP FRIES HYDRO VA 01/01/1933 MD-90177-WAT-01 AEP GLEN FERRIS 1 H WV 12/01/2011 MD-90220-WAT-01 AEP HEADWATERS 1 WF IN 10/01/2014 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20216-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP JAY COUNTY 1 LF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20132-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20133-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01	AEP FOWLER RIDGE 1B WF	IN	02/01/2009	MD-20112-WND-01
AEP FOWLER RIDGE 2-2 WF AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 02/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 02/01/2009 MD-20139-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2015 MD-20172-WND-01 AEP FRIES HYDRO VA 01/01/1933 MD-90177-WAT-01 AEP GLEN FERRIS 1 H WV 12/01/2011 MD-90220-WAT-01 AEP HEADWATERS 1 WF IN 10/01/2014 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20216-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP JAY COUNTY 1 LF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20132-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 4 WF IN 10/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2018 MD-20177-WND-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01	AEP FOWLER RIDGE 1C WF	IN	02/01/2009	MD-20112-WND-01
AEP FOWLER RIDGE 2-3 WF IN 12/01/2009 MD-20138-WND-01 AEP FOWLER RIDGE 3 WF IN 02/01/2009 MD-20139-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2015 MD-20172-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2015 MD-20172-WND-01 AEP FRIES HYDRO VA 01/01/1933 MD-90177-WAT-01 AEP GLEN FERRIS 1 H WV 12/01/2011 MD-90220-WAT-01 AEP HEADWATERS 1 WF IN 10/01/2014 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20216-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP JAY COUNTY 1 LF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20132-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2010 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 01/01/2018 MD-20193-W	AEP FOWLER RIDGE 2-1 WF	IN	12/01/2009	MD-20138-WND-01
AEP FOWLER RIDGE 3 WF IN 02/01/2009 MD-20139-WND-01 AEP FOWLER RIDGE 4 WF IN 12/01/2015 MD-20172-WND-01 AEP FRIES HYDRO VA 01/01/1933 MD-90177-WAT-01 AEP GLEN FERRIS 1 H WV 12/01/2011 MD-90220-WAT-01 AEP HEADWATERS 1 WF IN 10/01/2014 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20216-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP JAY COUNTY 1 LF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20132-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 4 WF IN 10/01/2010 MD-20134-WND-01 AEP MEADOW LAKE 6 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 01/01/2020 MD-20177-WND-01 </td <td>AEP FOWLER RIDGE 2-2 WF</td> <td>IN</td> <td>12/01/2009</td> <td>MD-20138-WND-01</td>	AEP FOWLER RIDGE 2-2 WF	IN	12/01/2009	MD-20138-WND-01
AEP FOWLER RIDGE 4 WF IN 12/01/2015 MD-20172-WND-01 AEP FRIES HYDRO VA 01/01/1933 MD-90177-WAT-01 AEP GLEN FERRIS 1 H WV 12/01/2011 MD-90220-WAT-01 AEP HEADWATERS 1 WF IN 10/01/2014 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20216-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP JAY COUNTY 1 LF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20132-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 4 WF IN 10/01/2010 MD-20134-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 01/01/2020 MD-2015-WND-01 </td <td>AEP FOWLER RIDGE 2-3 WF</td> <td>IN</td> <td>12/01/2009</td> <td>MD-20138-WND-01</td>	AEP FOWLER RIDGE 2-3 WF	IN	12/01/2009	MD-20138-WND-01
AEP FRIES HYDRO VA 01/01/1933 MD-90177-WAT-01 AEP GLEN FERRIS 1 H WV 12/01/2011 MD-90220-WAT-01 AEP HEADWATERS 1 WF IN 10/01/2014 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20216-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP JAY COUNTY 1 LF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20132-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 4 WF IN 10/01/2010 MD-20134-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 01/01/2020 MD-20177-WND-01	AEP FOWLER RIDGE 3 WF	IN	02/01/2009	MD-20139-WND-01
AEP GLEN FERRIS 1 H AEP HEADWATERS 1 WF IN 10/01/2014 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20216-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP JAY COUNTY 1 LF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20132-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 4 WF IN 10/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2010 MD-20134-WND-01 AEP MEADOW LAKE 6 WF IN 10/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 01/01/2020 MD-20215-WND-01	AEP FOWLER RIDGE 4 WF	IN	12/01/2015	MD-20172-WND-01
AEP HEADWATERS 1 WF IN 10/01/2014 MD-20163-WND-01 AEP HEADWATERS 2 WF IN 01/01/2021 MD-20216-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP JAY COUNTY 1 LF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20132-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 4 WF IN 10/01/2010 MD-20134-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01	AEP FRIES HYDRO	VA	01/01/1933	MD-90177-WAT-01
AEP HEADWATERS 2 WF IN 01/01/2021 MD-20216-WND-01 AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP JAY COUNTY 1 LF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20132-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 4 WF IN 10/01/2010 MD-20134-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01	AEP GLEN FERRIS 1 H	WV	12/01/2011	MD-90220-WAT-01
AEP HOG CREEK 1 WF OH 12/01/2017 MD-20186-WND-01 AEP JAY COUNTY 1 LF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20132-WND-01 AEP MEADOW LAKE 3 WF IN 10/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 4 WF IN 10/01/2010 MD-20134-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01	AEP HEADWATERS 1 WF	IN	10/01/2014	MD-20163-WND-01
AEP JAY COUNTY 1 LF IN 04/01/2005 MD-40205-LFG-01 AEP MEADOW LAKE 1 WF IN 10/01/2009 MD-20131-WND-01 AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20132-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 4 WF IN 10/01/2010 MD-20134-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01	AEP HEADWATERS 2 WF	IN	01/01/2021	MD-20216-WND-01
AEP MEADOW LAKE 1 WF AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20131-WND-01 NEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20132-WND-01 NEP MEADOW LAKE 3 WF IN 10/01/2010 MD-20133-WND-01 NEP MEADOW LAKE 4 WF IN 10/01/2010 MD-20134-WND-01 NEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 NEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 NEP PAULDING 3 WF OH 01/01/2016 MD-20177-WND-01 NEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01	AEP HOG CREEK 1 WF	ОН	12/01/2017	MD-20186-WND-01
AEP MEADOW LAKE 2 WF IN 06/01/2010 MD-20132-WND-01 AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 4 WF IN 10/01/2010 MD-20134-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01	AEP JAY COUNTY 1 LF	IN	04/01/2005	MD-40205-LFG-01
AEP MEADOW LAKE 3 WF IN 08/01/2010 MD-20133-WND-01 AEP MEADOW LAKE 4 WF IN 10/01/2010 MD-20134-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01	AEP MEADOW LAKE 1 WF	IN	10/01/2009	MD-20131-WND-01
AEP MEADOW LAKE 4 WF IN 10/01/2010 MD-20134-WND-01 AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01	AEP MEADOW LAKE 2 WF	IN	06/01/2010	MD-20132-WND-01
AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01	AEP MEADOW LAKE 3 WF	IN	08/01/2010	MD-20133-WND-01
AEP MEADOW LAKE 5 WF IN 07/01/2017 MD-20181-WND-01 AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01	AEP MEADOW LAKE 4 WF	IN	10/01/2010	MD-20134-WND-01
AEP MEADOW LAKE 6 WF IN 11/01/2018 MD-20193-WND-01 AEP ORCHARD HILLS 1 LF MI 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01		IN		
AEP ORCHARD HILLS 1 LF MI 01/01/2013 MD-40201-LFG-01 AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01	AEP MEADOW LAKE 6 WF	IN	+	MD-20193-WND-01
AEP PAULDING 3 WF OH 11/01/2016 MD-20177-WND-01 AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01			<u> </u>	
AEP PAULDING 41 WF OH 01/01/2020 MD-20215-WND-01				
	AEP PAULDING 42 WF	ОН	03/01/2020	

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This list excludes solar facilities, none of which was installed prior to 1998. Also excluded is geothermal, none of which was installed prior to 2007. A full list of facilities can be found here: https://gats.pjm-eis.com/gats2/PublicReports/RenewableGeneratorsRegisteredinGATS.

AEP SCIOTO RIDGE 1 WF	ОН	10/01/2020	MD-20213-WND-01
AEP SUMMERSVILLE 1-2 H	WV	01/01/2001	MD-90178-WAT-02
AEP TIMBER2 1 WF	ОН	06/01/2011	MD-20221-WND-01
AEP TRISHE 1 WF	ОН	08/01/2018	MD-20189-WND-01
AEP WILDCAT 1A WF	IN	10/01/2012	MD-20158-WND-01
AEP WILDCAT 1B WF	IN	10/01/2012	MD-20158-WND-01
Allegheny 5	PA	10/01/1988	MD-90180-WAT-01
Allegheny Lock& Dam No 6 Hydro Project	PA	01/01/1989	MD-90181-WAT-01
Allegheny River Lock and Dam No. 8	PA	11/01/1990	MD-90799-WAT-01
Allegheny River Lock and Dam No. 9	PA	11/01/1990	MD-90798-WAT-01
Allentown Wastewater Treatment Plant	PA	07/01/2014	MD-40187-OBG-01
AMP Wind Farm / OMEGA JV 6	ОН	12/01/2004	MD-20183-WND-01
AP ARDEN 1 LF	PA	01/01/2009	MD-40145-LFG-01
AP BEECH RIDGE 1 WF	WV	01/01/2010	MD-20137-WND-01
AP BEECH RIDGE 2 WF	WV	03/01/2020	MD-20203-WND-01
AP BLACK ROCK 1 WF	WV	10/01/2021	MD-20217-WND-01
AP CRITERION 1 WF	MD	12/01/2010	MD-20124-WND-01
AP FAIR WIND 2 WF	MD	11/01/2015	MD-20170-WND-01
AP FOURMILE RIDGE 1 WF	MD	12/01/2014	MD-20167-WND-01
AP GREENLAND GAP 1 WF	WV	12/01/2007	MD-20109-WND-01
AP LAUREL MOUNTAIN 1 WF	WV	05/01/2011	MD-20136-WND-01
AP MISC HYDRO H	WV	06/01/1938	MD-90102-WAT-01
AP PINNACLE 1 WF	WV	11/01/2011	MD-20135-WND-01
AP ROTH ROCK 1 WF	MD	11/01/2010	MD-20122-WND-01
AP SOUTH CHESTNUT 1 WF	PA	11/01/2011	MD-20142-WND-01
AP TWIN RIDGES 1 WF	PA	09/01/2012	MD-20149-WND-01
AP UPTON DG 1 F	PA	11/01/2004	MD-40163-LFG-01
AP WILLOW ISLAND 1 H	WV	11/01/2015	MD-90258-WAT-02
Appomattox River Associates, LP.	VA	09/01/1992	MD-90214-WAT-01
Archbald Power Station	PA	09/01/1988	MD-40115-LFG-01
Atlantic Treatment Plant	VA	05/01/2013	MD-40203-OBG-01
Ball Metal Beverage Container Corp.	OH	08/01/2020	MD-20209-WND-01
Banister Hydro, Inc	VA	01/01/1915	MD-90212-WAT-01
Bavarian LFGTE	KY	09/01/2003	MD-40176-LFG-01
BC ALPHA RIDGE 1 LF	MD	07/01/2012	MD-40171-LFG-01
BC MILLERSVILLE 1 LF	MD	06/01/2012	MD-40168-LFG-01
Beaver Valley Patterson Dam	PA	09/01/1982	MD-90256-WAT-01
Beecher	IL	06/01/2006	MD-40138-LFG-01
Belleville	WV	04/01/1999	MD-90243-WAT-02

Big Shoals Hydro	Berrien Springs	MI	01/01/1996	MD-90229-WAT-01
Blue Plains Wastewater Treatment Plant Digestors DC 10/01/2014 MD-20222-WH-01	Big Shoals Hydro	VA	12/01/1925	MD-90183-WAT-01
Digestors DC 10/01/2014 MD-20222-WH-01 Blue Ridge LFGTE PA 11/01/2012 MD-40173-LFG-01 Blue Ridge LFGTE KY 11/01/2013 MD-40204-LFG-01 Buchanan MI 01/01/1919 MD-90226-WAT-01 Buckeye BioGas OH 04/01/2010 MD-50500-OBG-01 Buzzards Roost Hydro SC 01/01/1940 MD-90260-WAT-01 CCIA BTM NJ 10/01/2008 MD-40139-LFG-01 CID IL 03/01/1989 MD-40116-LFG-01 City of Radford Municipal Hydroelectric VA 08/01/1934 MD-90249-WAT-01 City of Rock Falls Upper Sterling Hydro IL 06/01/1998 MD-90196-WAT-01 Coleman Falls Hydro VA 06/01/1998 MD-90184-WAT-01 COM ADAM 1 WF IL 10/01/2007 MD-20160-WND-01 COM BIG SKY 1 WF IL 04/01/2023 MD-20220-WND-01 COM BISHOP HILL 1 WF IL 02/01/2012 MD-20159-WND-01 COM BLOOMING GROVE 1 WF1 IL 10/01/2020 MD-20212-WND-01	Biodyne Pontiac	IL	12/01/1999	MD-40199-LFG-01
Blue Ridge LFGTE PA 11/01/2012 MD-40173-LFG-01 Blue Ridge LFGTE KY 11/01/2013 MD-40204-LFG-01 Buchanan MI 01/01/1919 MD-90226-WAT-01 Buckeye BioGas OH 04/01/2010 MD-50500-OBG-01 Buzzards Roost Hydro SC 01/01/1940 MD-90260-WAT-01 CCIA BTM NJ 10/01/2008 MD-40139-LFG-01 CID IL 03/01/1989 MD-40116-LFG-01 City of Radford Municipal Hydroelectric VA 08/01/1934 MD-90249-WAT-01 City of Rock Falls Upper Sterling Hydro IL 06/01/1998 MD-90196-WAT-01 Coleman Falls Hydro VA 06/01/1998 MD-90184-WAT-01 COM ADAM 1 WF IL 10/01/2007 MD-20160-WND-01 COM ALTA FARMS II 1 WF IL 04/01/2023 MD-20220-WND-01 COM BISHOP HILL 1 WF IL 02/01/2012 MD-20143-WND-01 COM BISHOP HILL 2 WF IL 02/01/2012 MD-20159-WND-01 COM BRIGHT STALK 1 WF IL 12/01/2019 MD-20202-WND-01 </td <td>Blue Plains Wastewater Treatment Plant</td> <td></td> <td></td> <td></td>	Blue Plains Wastewater Treatment Plant			
Blue Ridge LFGTE KY 11/01/2013 MD-40204-LFG-01 Buchanan MI 01/01/1919 MD-90226-WAT-01 Buckeye BioGas OH 04/01/2010 MD-50500-OBG-01 Buzzards Roost Hydro SC 01/01/1940 MD-90260-WAT-01 CCIA BTM NJ 10/01/2008 MD-40139-LFG-01 CID IL 03/01/1989 MD-40116-LFG-01 City of Radford Municipal Hydroelectric Project VA 08/01/1934 MD-90249-WAT-01 City of Rock Falls Upper Sterling Hydro IL 06/01/1998 MD-90196-WAT-01 Coleman Falls Hydro VA 06/01/1983 MD-90184-WAT-01 COM ADAM 1 WF IL 10/01/2007 MD-20160-WND-01 COM ALTA FARMS II 1 WF IL 04/01/2023 MD-20220-WND-01 COM BIG SKY 1 WF IL 08/01/2010 MD-20143-WND-01 COM BISHOP HILL 1 WF IL 02/01/2012 MD-20159-WND-01 COM BLOOMING GROVE 1 WF1 IL 10/01/2020 MD-20212-WND-01 COM CAMP GROVE 1 WF IL 12/01/2007 MD-20140-WND-01 </td <td>Digestors</td> <td>DC</td> <td>10/01/2014</td> <td>MD-20222-WH-01</td>	Digestors	DC	10/01/2014	MD-20222-WH-01
Buchanan MI 01/01/1919 MD-90226-WAT-01 Buckeye BioGas OH 04/01/2010 MD-50500-OBG-01 Buzzards Roost Hydro SC 01/01/1940 MD-90260-WAT-01 CCIA BTM NJ 10/01/2008 MD-40139-LFG-01 CID IL 03/01/1989 MD-40116-LFG-01 City of Radford Municipal Hydroelectric Project VA 08/01/1934 MD-90249-WAT-01 City of Rock Falls Upper Sterling Hydro IL 06/01/1998 MD-90196-WAT-01 Coleman Falls Hydro VA 06/01/1983 MD-90184-WAT-01 COM ADAM 1 WF IL 10/01/2007 MD-20160-WND-01 COM ALTA FARMS II 1 WF IL 04/01/2023 MD-20160-WND-01 COM BIG SKY 1 WF IL 08/01/2010 MD-20143-WND-01 COM BISHOP HILL 1 WF IL 02/01/2012 MD-20159-WND-01 COM BLOOMING GROVE 1 WF1 IL 10/01/2020 MD-20212-WND-01 COM CAMP GROVE 1 WF IL 12/01/2019 MD-20202-WND-01	Blue Ridge LFGTE	PA	11/01/2012	MD-40173-LFG-01
Buckeye BioGas OH 04/01/2010 MD-50500-OBG-01 Buzzards Roost Hydro SC 01/01/1940 MD-90260-WAT-01 CCIA BTM NJ 10/01/2008 MD-40139-LFG-01 CID IL 03/01/1989 MD-40116-LFG-01 City of Radford Municipal Hydroelectric Project VA 08/01/1934 MD-90249-WAT-01 City of Rock Falls Upper Sterling Hydro IL 06/01/1998 MD-90196-WAT-01 Coleman Falls Hydro VA 06/01/1998 MD-90196-WAT-01 COM ADAM 1 WF IL 10/01/2007 MD-20160-WND-01 COM BIG SKY 1 WF IL 04/01/2023 MD-20220-WND-01 COM BISHOP HILL 1 WF IL 08/01/2010 MD-20143-WND-01 COM BISHOP HILL 2 WF IL 02/01/2012 MD-20159-WND-01 COM BLOOMING GROVE 1 WF1 IL 10/01/2020 MD-20212-WND-01 COM CAMP GROVE 1 WF IL 12/01/2007 MD-20140-WND-01	Blue Ridge LFGTE	KY	11/01/2013	MD-40204-LFG-01
Buzzards Roost Hydro SC 01/01/1940 MD-90260-WAT-01 CCIA BTM NJ 10/01/2008 MD-40139-LFG-01 CID IL 03/01/1989 MD-40116-LFG-01 City of Radford Municipal Hydroelectric Project VA 08/01/1934 MD-90249-WAT-01 City of Rock Falls Upper Sterling Hydro IL 06/01/1998 MD-90196-WAT-01 Coleman Falls Hydro VA 06/01/1983 MD-90184-WAT-01 COM ADAM 1 WF IL 10/01/2007 MD-20160-WND-01 COM ALTA FARMS II 1 WF IL 04/01/2023 MD-20220-WND-01 COM BIG SKY 1 WF IL 08/01/2010 MD-20143-WND-01 COM BISHOP HILL 1 WF IL 02/01/2012 MD-20159-WND-01 COM BLOOMING GROVE 1 WF1 IL 10/01/2020 MD-20212-WND-01 COM BRIGHT STALK 1 WF IL 12/01/2019 MD-20202-WND-01 COM CAMP GROVE 1 WF IL 12/01/2007 MD-20140-WND-01	Buchanan	MI	01/01/1919	MD-90226-WAT-01
CCIA BTM NJ 10/01/2008 MD-40139-LFG-01 CID IL 03/01/1989 MD-40116-LFG-01 City of Radford Municipal Hydroelectric Project VA 08/01/1934 MD-90249-WAT-01 City of Rock Falls Upper Sterling Hydro IL 06/01/1998 MD-90196-WAT-01 Coleman Falls Hydro VA 06/01/1983 MD-90184-WAT-01 COM ADAM 1 WF IL 10/01/2007 MD-20160-WND-01 COM ALTA FARMS II 1 WF IL 04/01/2023 MD-20220-WND-01 COM BIG SKY 1 WF IL 08/01/2010 MD-20143-WND-01 COM BISHOP HILL 1 WF IL 02/01/2012 MD-20159-WND-01 COM BISHOP HILL 2 WF IL 02/01/2012 MD-20159-WND-01 COM BLOOMING GROVE 1 WF1 IL 10/01/2020 MD-20212-WND-01 COM BRIGHT STALK 1 WF IL 12/01/2019 MD-20202-WND-01 COM CAMP GROVE 1 WF IL 12/01/2007 MD-20140-WND-01	Buckeye BioGas	OH	04/01/2010	MD-50500-OBG-01
CID IL 03/01/1989 MD-40116-LFG-01 City of Radford Municipal Hydroelectric Project VA 08/01/1934 MD-90249-WAT-01 City of Rock Falls Upper Sterling Hydro IL 06/01/1998 MD-90196-WAT-01 Coleman Falls Hydro VA 06/01/1983 MD-90184-WAT-01 COM ADAM 1 WF IL 10/01/2007 MD-20160-WND-01 COM ALTA FARMS II 1 WF IL 04/01/2023 MD-20220-WND-01 COM BIG SKY 1 WF IL 08/01/2010 MD-20143-WND-01 COM BISHOP HILL 1 WF IL 02/01/2012 MD-20159-WND-01 COM BLOOMING GROVE 1 WF1 IL 10/01/2020 MD-20212-WND-01 COM BRIGHT STALK 1 WF IL 12/01/2019 MD-20202-WND-01 COM CAMP GROVE 1 WF IL 12/01/2007 MD-20140-WND-01	Buzzards Roost Hydro	SC	01/01/1940	MD-90260-WAT-01
City of Radford Municipal Hydroelectric Project VA 08/01/1934 MD-90249-WAT-01 City of Rock Falls Upper Sterling Hydro IL 06/01/1998 MD-90196-WAT-01 Coleman Falls Hydro VA 06/01/1983 MD-90184-WAT-01 COM ADAM 1 WF IL 10/01/2007 MD-20160-WND-01 COM ALTA FARMS II 1 WF IL 04/01/2023 MD-20220-WND-01 COM BIG SKY 1 WF IL 08/01/2010 MD-20143-WND-01 COM BISHOP HILL 1 WF IL 02/01/2012 MD-20159-WND-01 COM BLOOMING GROVE 1 WF1 IL 10/01/2020 MD-20212-WND-01 COM BRIGHT STALK 1 WF IL 12/01/2019 MD-20202-WND-01 COM CAMP GROVE 1 WF IL 12/01/2007 MD-20140-WND-01	CCIA BTM	NJ	10/01/2008	MD-40139-LFG-01
Project VA 08/01/1934 MD-90249-WAT-01 City of Rock Falls Upper Sterling Hydro IL 06/01/1998 MD-90196-WAT-01 Coleman Falls Hydro VA 06/01/1983 MD-90184-WAT-01 COM ADAM 1 WF IL 10/01/2007 MD-20160-WND-01 COM ALTA FARMS II 1 WF IL 04/01/2023 MD-20220-WND-01 COM BIG SKY 1 WF IL 08/01/2010 MD-20143-WND-01 COM BISHOP HILL 1 WF IL 02/01/2012 MD-20159-WND-01 COM BLOOMING GROVE 1 WF1 IL 10/01/2020 MD-20212-WND-01 COM BRIGHT STALK 1 WF IL 12/01/2019 MD-20202-WND-01 COM CAMP GROVE 1 WF IL 12/01/2007 MD-20140-WND-01	CID	IL	03/01/1989	MD-40116-LFG-01
City of Rock Falls Upper Sterling Hydro IL 06/01/1998 MD-90196-WAT-01 Coleman Falls Hydro VA 06/01/1983 MD-90184-WAT-01 COM ADAM 1 WF IL 10/01/2007 MD-20160-WND-01 COM ALTA FARMS II 1 WF IL 04/01/2023 MD-20220-WND-01 COM BIG SKY 1 WF IL 08/01/2010 MD-20143-WND-01 COM BISHOP HILL 1 WF IL 02/01/2012 MD-20159-WND-01 COM BLOOMING GROVE 1 WF1 IL 10/01/2020 MD-20212-WND-01 COM BRIGHT STALK 1 WF IL 12/01/2019 MD-20202-WND-01 COM CAMP GROVE 1 WF IL 12/01/2007 MD-20140-WND-01	· · · · · · · · · · · · · · · · · · ·			
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COM BISHOP HILL 2 WF IL 02/01/2012 MD-20159-WND-01 COM BLOOMING GROVE 1 WF1 IL 10/01/2020 MD-20212-WND-01 COM BRIGHT STALK 1 WF IL 12/01/2019 MD-20202-WND-01 COM CAMP GROVE 1 WF IL 12/01/2007 MD-20140-WND-01	COM BIG SKY 1 WF	IL	08/01/2010	MD-20143-WND-01
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COM BRIGHT STALK 1 WF IL 12/01/2019 MD-20202-WND-01 COM CAMP GROVE 1 WF IL 12/01/2007 MD-20140-WND-01	COM BISHOP HILL 2 WF	IL	02/01/2012	MD-20159-WND-01
COM CAMP GROVE 1 WF IL 12/01/2007 MD-20140-WND-01	COM BLOOMING GROVE 1 WF1	IL	10/01/2020	MD-20212-WND-01
	COM BRIGHT STALK 1 WF	IL	12/01/2019	MD-20202-WND-01
COM CAMB CROVE 2 WE	COM CAMP GROVE 1 WF	IL	12/01/2007	MD-20140-WND-01
COM CAMP GROVE 2 WF IL 12/01/2007 MD-20140-WND-01	COM CAMP GROVE 2 WF	IL	12/01/2007	MD-20140-WND-01
COM CAYUGA RIDGE 1 WF IL 12/01/2009 MD-20117-WND-01	COM CAYUGA RIDGE 1 WF	IL	12/01/2009	MD-20117-WND-01
COM ECO GROVE 1 WF IL 06/01/2009 MD-20127-WND-01	COM ECO GROVE 1 WF	IL	06/01/2009	MD-20127-WND-01
COM GRAND RIDGE 1 WF IL 10/01/2008 MD-20144-WND-01	COM GRAND RIDGE 1 WF	IL	10/01/2008	MD-20144-WND-01
COM GRAND RIDGE 2 WF IL 12/01/2009 MD-20118-WND-01	COM GRAND RIDGE 2 WF	IL	12/01/2009	MD-20118-WND-01
COM GRAND RIDGE 3 WF IL 11/01/2009 MD-20119-WND-01	COM GRAND RIDGE 3 WF	IL	11/01/2009	MD-20119-WND-01
COM GRAND RIDGE 4 WF IL 12/01/2009 MD-20152-WND-01	COM GRAND RIDGE 4 WF	IL	12/01/2009	MD-20152-WND-01
COM GREEN RIVER 1 WF IL 11/01/2019 MD-20200-WND-01	COM GREEN RIVER 1 WF	IL	11/01/2019	MD-20200-WND-01
COM GREEN RIVER 2 WF IL 11/01/2019 MD-20201-WND-01	COM GREEN RIVER 2 WF	IL	11/01/2019	MD-20201-WND-01
COM HIGH TRAIL 1 WIND IL 03/01/2007 MD-20107-WND-01	COM HIGH TRAIL 1 WIND	IL	03/01/2007	MD-20107-WND-01
COM HILLTOPPER 1 WF IL 11/01/2018 MD-20188-WND-01				
COM KELLY CREEK 1 WF IL 11/01/2016 MD-20176-WND-01				
COM LONE TREE 3 WF IL 11/01/2020 MD-20214-WND-01				
COM MINONK 1 WF IL 10/01/2012 MD-20156-WND-01				
COM OLD TRAIL 2 WF IL 01/01/2008 MD-20108-WND-01				
COM OTTER CREEK 1 WF IL 01/01/2020 MD-20207-WND-01				

COM PILOT HILL 1 WF	IL	07/01/2015	MD-20164-WND-01
COM PROVIDENCE HGTS 1 WF	IL	06/01/2008	MD-20155-WND-01
COM RADFORDS RUN 1 WF	IL	10/01/2017	MD-20184-WND-01
COM SHADY OAKS 1 WF	IL	05/01/2012	MD-20218-WND-01
COM SHADY OAKS 2 WF	IL	09/01/2023	MD-20223-WND-01
COM SUBLETTE 1 WF	IL	04/01/2007	MD-20145-WND-01
COM TOP CROP 1 WF	IL	10/01/2009	MD-20125-WND-01
COM TOP CROP 2 WF	IL	07/01/2010	MD-20126-WND-01
COM WALNUT RIDGE 1 WF	IL	10/01/2018	MD-20196-WND-01
COM WBROOK 1 WF	IL	04/01/2007	MD-20145-WND-01
COM WHITNEY HILL 2 WF	IL	12/01/2019	MD-20194-WND-01
Conemaugh Hydro Plant	PA	04/01/1989	MD-90182-WAT-01
Conowingo	MD	03/01/1928	MD-90176-WAT-02
Constantine	MI	01/01/1923	MD-90255-WAT-01
Covanta Fairfax Energy	VA	03/01/1990	MD-80106-MSW-01
Covanta New Martinsville Energy	WV	10/01/1988	MD-90179-WAT-02
			MD-30010-BLQ-01;
Covington Facility	VA	01/01/1989	MD-30010-WDS-01
Cox Waste-to-Energy Cogeneration Plant	KY	01/01/2001	MD-30114-WDS-01
Crescent Ridge	IL	05/01/2005	MD-20153-WND-01
Croda Atlas Point CHP	DE	08/01/2013	MD-40191-LFG-01
Cushaw	VA	01/01/1930	MD-90231-WAT-01
DC Water Bailey Bioenergy Facility	DC	01/01/2016	MD-20223-WH-01
DC Water Bailey Bioenergy Facility	DC	01/01/2016	MD-20224-WH-01
DC Water Bailey Bioenergy Facility	DC	01/01/2016	MD-20225-WH-01
DC Water Bailey Bioenergy Facility	DC	01/01/2016	MD-20226-WH-01
DC Water Bailey Bioenergy Facility	DC	10/01/2014	MD-40189-OBG-01
DC Water Bailey Bioenergy Facility	DC	10/01/2014	MD-40189-OBG-01
DC Water Bailey Bioenergy Facility	DC	10/01/2014	MD-40189-OBG-01
Deep Creek	MD	07/01/1925	MD-90104-WAT-01
Deep Creek	MD	07/01/1925	MD-90104-WAT-01
DEOK MELDAHL DAM 1 H	KY	08/01/2014	MD-90259-WAT-02
Dixon Hydroelectric Dam	IL	01/01/1988	MD-90195-WAT-01
			MD-301180-BLQ-01;
Domtar Paper Co LLC Plymouth NC	NC	09/01/1952	MD-30118-WDS-01
DPL CENTRAL 1 LF	DE	12/01/2006	MD-40113-LFG-01
DPL NEWLAND PARK 1 LF	MD	05/01/2007	MD-40167-LFG-01
DPL SOUTHERN 1 LF	DE	10/01/2006	MD-40114-LFG-01
Eastern Correctional Institution	MD	08/01/1987	MD-30117-WDS-01

Eastern LFG BTM	MD	02/01/2021	MD-402010-LFG-01
Eastern LFG BTM	MD	06/01/2020	MD-40209-LFG-01
Easton	MD	11/01/2004	MD-50001-OBL-01
Edge Moor	DE	12/01/1954	MD-40103-LFG-01
Edge Moor	DE	04/01/1966	MD-40104-LFG-01
Edge Moor	DE	08/01/1973	MD-40105-LFG-01
Elkhart	IN	01/01/1913	MD-90230-WAT-01
Falls	NC	12/01/1919	MD-90236-WAT-02
FE ERIE COUNTY 1 LF	ОН	04/01/2010	MD-40174-LFG-01
FE GENEVA 1 LF	ОН	07/01/2013	MD-40185-LFG-01
FE MAHONING 1 LF	ОН	01/01/2013	MD-40186-LFG-01
Findlay Wind Farm	ОН	12/01/2015	MD-20175-WND-01
Fowler Ridge II Wind Farm - Vectren	IN	12/01/2009	MD-20138-WND-01
FPL E Somerset Windpower LLC	PA	10/01/2001	MD-20205-WND-01
Franklin Mill	VA	11/01/1977	MD-30106-BLQ-01
French Paper Co	MI	02/01/2000	MD-90221-WAT-01
Frey Farm Landfill	PA	01/01/2006	MD-40141-LFG-01
Gaston	NC	02/01/1963	MD-90231-WAT-02
Great Falls Hydro Project	NJ	09/01/1984	MD-90215-WAT-01
Green Valley LFGTE	KY	09/01/2003	MD-40181-LFG-01
Greene Valley	IL	05/01/1996	MD-40102-LFG-01
Hardin County LFGTE	KY	01/01/2006	MD-40178-LFG-01
Harpster Wind	ОН	01/01/2016	MD-20173-WND-01
Haviland Energy	ОН	04/01/2012	MD-50503-OBG-01
Haviland Wind Farm	ОН	12/01/2012	MD-20161-WND-01
Haviland Wind Farm	ОН	12/01/2012	MD-20161-WND-01
Haviland Wind Farm	ОН	12/01/2012	MD-20161-WND-01
High Rock	NC	12/01/1927	MD-90237-WAT-02
Holcim-Paulding Wind Project	ОН	08/01/2020	MD-20210-WND-01
Holcomb Rock Hydro	VA	06/01/1920	MD-90185-WAT-01
			MD-30101-BLQ-01;
Hopewell Mill	VA	12/01/1980	MD-30101-WDS-01
HQO	DC	01/01/2019	MD-20221-WH-01
Hydro-FS	VA	10/01/1946	MD-90257-WAT-01
JC OCEAN CTY 1 LF	NJ	05/01/2007	MD-40207-LFG-01
Jersey-Atlantic Wind, LLC	NJ	12/01/2005	MD-20166-WND-01
John H Kerr	VA	12/01/1953	MD-90250-WAT-02
Johnsonburg Mill	PA	02/01/1993	MD-30133-BLQ-01

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			MD-30116-AB-01;
Variationa Vinoft Dancin Communica	NC	01/01/1000	MD-30116-BLQ-01; MD-30116-WDS-01
Kapstone Kraft Paper Corporation		01/01/1999	
KC Brighton	MD	07/01/1985	MD-90218-WAT-01
Lake Gas Recovery	IL	08/01/1988	MD-40101-LFG-01
Lake Lynn Power Station	PA	05/01/1926	MD-90101-WAT-02
Lakeview Gas Recovery	PA	06/01/1997	MD-40125-LFG-01
Laurel Ridge LFGTE	KY	09/01/2003	MD-40180-LFG-01
Lockhart Power Hydro	SC	10/01/1921	MD-90261-WAT-01
Lockport Powerhouse Hydroelectric Facility	IL	02/01/1999	MD-90241-WAT-01
London	WV	12/01/1935	MD-90200-WAT-01
Lorain County Power Station	OH	12/01/2001	MD-40188-LFG-01
Lycoming Landfill	PA	08/01/2012	MD-40183-LFG-01
Marmet	WV	12/01/1935	MD-90201-WAT-01
Martin Marietta Wind Project	OH	12/01/2023	MD-20224-WND-01
Martinsville	VA	04/01/2017	MD-45000-OBG-01
ME NORTH LEBANON 1 F	PA	09/01/2007	MD-40142-LFG-01
Mendota Hills LLC	IL	03/01/2019	MD-20100-WND-01
Meyersdale Windpower	PA	12/01/2003	MD-20105-WND-01
Midshore I Regional Solid Waste Facility	MD	06/01/2023	MD-40211-LFG-01
Mill Run Windpower	PA	10/01/2001	MD-20204-WND-01
Montgomery County Resource Recovery	MD	05/01/1995	MD-80001-MSW-01
Montgomery County Resource Recovery			
Facility	MD	07/01/1995	MD-80001-MSW-01
Moomaws Dam	VA	01/01/1984	MD-90245-WAT-01
Morehead Generating Facility	KY	06/01/2019	MD-40203-LFG-01
Mother Ann Lee Hydroelectric Station	KY	03/01/2007	MD-90219-WAT-01
Mottville	MI	01/01/1923	MD-90227-WAT-01
Narrows	NC	12/01/1917	MD-90238-WAT-02
Niagara	VA	06/01/1954	MD-90202-WAT-01
O'brien Edgeboro	NJ	09/01/1997	MD-40172-LFG-01
Ocean County Landfill	NJ	02/01/1997	MD-40208-LFG-01
PE SE CHESTER COUNTY REFUSE 1 LF	PA	01/01/2007	MD-40135-LFG-01
Pendleton County LFGTE	KY	02/01/2007	MD-40177-LFG-01
Pennsauken Landfill	NJ	01/01/2005	MD-40148-LFG-01
PEP RITCHIE BROWN 2 LF	MD	12/01/2003	MD-40137-LFG-01
PEP RITCHIE BROWN 2 LF	MD	12/01/2003	MD-40137-LFG-01
PEP RITCHIE PG COGEN 1	MD	10/01/1987	MD-40136-LFG-01
PEP RITCHIE PG COGEN 1	MD	10/01/1987	MD-40136-LFG-01
Philpott Lake	VA	08/01/1953	MD-90251-WAT-01

Piney	PA	06/01/1924	MD-90103-WAT-02
Pinnacles Hydro Power Project	VA	06/01/1938	MD-90246-WAT-01
Pixelle Specialty Solutions - Spring Grove	PA	10/01/1989	MD-30109-BLQ-01
Pixelle Specialty Solutions -Chillicothe	ОН	07/01/1978	MD-30102-BLQ-01
PL ARCHBALD PEI 5 LF	PA	01/01/2010	MD-40115-LFG-01
PL ARCHBALD PEI 6 LF	PA	01/01/2010	MD-40115-LFG-01
PL LOCUST RIDGE 2 WF	PA	11/01/2008	MD-20115-WND-01
PL PINE GROVE 1 LF	PA	08/01/2008	MD-40165-LFG-01
PN ALLEGHENY RIDGE 1 WF	PA	06/01/2007	MD-20106-WND-01
PN ARMENIA MOUNTAIN 1 WF	PA	11/01/2009	MD-20114-WND-01
PN BIG LEVEL 1 WF	PA	11/01/2019	MD-20195-WND-01
PN CASSELMAN 1 WF	PA	12/01/2007	MD-20123-WND-01
PN HIGHLAND 1 WF	PA	06/01/2009	MD-20211-WND-01
PN HIGHLAND NORTH 2 WF	PA	02/01/2012	MD-20146-WND-01
PN LAUREL HILLS 1 WF	PA	09/01/2012	MD-20154-WND-01
PN LOOKOUT 1 WF	PA	10/01/2008	MD-20151-WND-01
PN MEHOOPANY 1 WF	PA	12/01/2012	MD-20148-WND-01
PN MEHOOPANY 2 WF	PA	12/01/2012	MD-20148-WND-01
PN NORTH ALLEGHENY 2 WF	PA	09/01/2009	MD-20190-WND-01
PN NORTHERN TIER 1 D	PA	01/01/2009	MD-40144-LFG-01
PN PATTON 1 WF	PA	11/01/2012	MD-20150-WND-01
PN RINGER HILL 1 WF	PA	12/01/2016	MD-20180-WND-01
PN SANDY RIDGE 1 WF	PA	03/01/2012	MD-20157-WND-01
PN SANDY RIDGE 2 WF	PA	08/01/2023	MD-20222-WND-01
PN SHIPPENSBURG 1 LF	PA	01/01/2009	MD-40143-LFG-01
PN STONY CREEK 1 WF	PA	11/01/2009	MD-20120-WND-01
Pocomoke Drying Plant	MD	03/01/2007	MD-50508-OBS-01
PS PENNSAUKEN 1 LF	NJ	12/01/2004	MD-40148-LFG-01
Racine	OH	01/01/1983	MD-90217-WAT-02
Ravenna Hydroelectric Project	KY	04/01/2021	MD-90252-WAT-01
Reusens	VA	01/01/1903	MD-90244-WAT-01
Roanoke Rapids	NC	09/01/1955	MD-90232-WAT-02
Rochelle Energy LLC	IL	12/01/2011	MD-40175-LFG-01
Safe Harbor	PA	10/01/1940	MD-90100-WAT-02
Safe Harbor	PA	11/01/1934	MD-90100-WAT-02
Safe Harbor	PA	12/01/1931	MD-90100-WAT-02
Safe Harbor	PA	12/01/1931	MD-90100-WAT-02
Safe Harbor	PA	01/01/1932	MD-90100-WAT-02
Safe Harbor	PA	01/01/1932	MD-90100-WAT-02

Safe Harbor	PA	10/01/1933	MD-90100-WAT-02
Safe Harbor	PA	04/01/1985	MD-90100-WAT-02
Safe Harbor	PA	02/01/1986	MD-90100-WAT-02
Safe Harbor	PA	06/01/1985	MD-90100-WAT-02
Safe Harbor	PA	04/01/1986	MD-90100-WAT-02
Safe Harbor	PA	09/01/1985	MD-90100-WAT-02
Salisbury Drying Plant	MD	09/01/2020	MD-50507-OBS-01
Schoolfield Dam	VA	12/01/1990	MD-90193-WAT-01
Settlers Hill	IL	10/01/1988	MD-40119-LFG-01
Snowden Hydro Site	VA	08/01/1987	MD-90186-WAT-01
Storm Lake Power Partners II LLC	IA	04/01/1999	MD-20225-WND-01
Suburban Landfill Generator	ОН	01/01/2011	MD-40212-LFG-01
Swift Creek Hydro, Inc.	VA	10/01/1988	MD-90211-WAT-01
Talbot County Bio-Mass Facility	MD	04/01/2011	MD-20130-WND-01
Tatanka Wind Farm	ND	01/01/2008	MD-20169-WND-01
Tuckertown	NC	12/01/1962	MD-90239-WAT-02
Tullytown Landfill Gas-to-Energy Facility	PA	03/01/2013	MD-40184-LFG-01
Twin Branch	IN	05/01/1989	MD-90228-WAT-01
Twin Cities Hydro LLC	MN	10/01/1924	MD-90253-WAT-01
Valfilm Wind Project	ОН	09/01/2018	MD-20191-WND-01
VP AMELIA 1 CT	VA	08/01/2001	MD-40157-LFG-01
VP BETHEL 1 LF	VA	10/01/2007	MD-40132-LFG-01
VP BRUNSWICK 1 LF	VA	10/01/2007	MD-40158-LFG-01
VP CHARLES CITY 1 CT	VA	11/01/2003	MD-40159-LFG-01
VP CHESTERFIELD 1 LF	VA	06/01/2004	MD-40160-LFG-01
VP DESERT 1 WF	NC	11/01/2016	MD-20178-WND-01
VP EMPORIA 1 H	VA	01/01/1986	MD-90213-WAT-01
VP HENRICO 1 LF	VA	09/01/2010	MD-40161-LFG-01
VP KING AND QUEEN 1 D	VA	01/01/2008	MD-40162-LFG-01
VP KING GEORGE 1 LF	VA	05/01/2010	MD-40149-LFG-01
VP NEW CREEK 1 WF	WV	11/01/2016	MD-20179-WND-01
VP NORTHEAST 2 LF	VA	12/01/2011	MD-40154-LFG-01
VP OCCOQUAN 2 LF	VA	03/01/1993	MD-40107-LFG-01
VP PENINSULA 3 LF	VA	09/01/2009	MD-40146-LFG-01
VP SOUTH BOSTON 1 F	VA	09/01/2013	MD-30113-WDS-01
VP VIRGINIA BEACH 1 LF	VA	11/01/2001	MD-40166-LFG-01
Waymart Wind	PA	10/01/2003	MD-20206-WND-01
West Point Mill	VA	10/01/1985	MD-30112-BLQ-01; MD-30112-WDS-01

Wheelabrator Baltimore Refuse	MD	05/01/1985	MD-80101-MSW-01
Whirlpool Corporation - Greenville Wind			
Farm	OH	10/01/2018	MD-20192-WND-01
Whirlpool Corporation - Ottawa Wind Farm	ОН	01/01/2018	MD-20187-WND-01
Whirlpool Corporation-Marion Wind Farm	ОН	10/01/2017	MD-20185-WND-01
Winfield	WV	01/01/1938	MD-90203-WAT-01
Woodland	IL	05/01/1992	MD-40121-LFG-01
XIC FARMER CITY 1 WF	MO	02/01/2009	MD-20171-WND-01
York Haven	PA	12/01/1905	MD-90240-WAT-01
Yough Hydro Power	PA	12/01/1989	MD-90242-WAT-01
Zanesville Energy	ОН	10/01/2010	MD-50502-OBG-01
Zephyr Wind	ОН	12/01/2015	MD-20174-WND-01

Appendix G Price of RECs by Fuel Source

Fuel Source	Price/REC
Black Liquor	\$26.53
Geothermal	\$15.83
Post-2022 Geothermal	\$94.47
Landfill Gas	\$17.26
Municipal Solid Waste	\$24.49
Other Biomass Gas	\$20.00
Other Biomass Solids	\$26.21
Solar Hot Water	\$57.64
PV Solar	\$56.66
Tier 1 Hydroelectric	\$24.49
Wood and Waste Solids	\$23.03
Waste Heat	\$22.81
Wind	\$25.34
Tier 2 Hydroelectric	\$10.50