



District of Columbia

Your Energy. Your Voice.

# RENEWABLE ENERGY PORTFOLIO STANDARDS

A REPORT FOR COMPLIANCE YEAR 2023

MAY 1, 2024



Solar thermal panels on the roof of The Parkhill apartments in Mt. Pleasant (Ward 1)



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# EXECUTIVE SUMMARY

The *Renewable Energy Portfolio Standard Act* (“REPS Act”) requires the Public Service Commission of the District of Columbia (“Commission”) to annually report to the Council of the District of Columbia (“D.C. Council”) the status of implementation of the Renewable Energy Portfolio Standards (“RPS”). This annual report fulfills the reporting requirements outlined in the REPS Act and amended by the *CleanEnergy DC Omnibus Amendment Act of 2018* (“CleanEnergy Act”) for the most recent compliance year of 2023. The recently enacted *Local Solar Expansion Amendment Act of 2022* (“Local Solar Act”) establishes revised compliance requirements beginning in 2023.

The CleanEnergy Act established one of the most aggressive RPS standards in the nation. Consistent with the requirements of the CleanEnergy Act, the Commission considers public safety, the economy of the District, the conservation of natural resources, and the preservation of environmental quality, including the effects on global climate change and the District’s public climate commitments, when making its regulatory decisions. Those decisions, which have the force of law, have created, expanded, or enhanced several climate initiatives.

## Key Takeaways for the 2023 RPS Compliance Year

- For 2023, the RPS legislation requires that 3% of retail electricity sales come from solar resources. The total retail electricity sales for 2023 reported by suppliers were roughly 9.8 million megawatt hours (“MWh”), and the total number of solar renewable energy credits (“SRECs”) retired for compliance was 278,200 (equivalent to 278,200 MWh), roughly 2.84% of total retail electricity sales. This shortfall

reflects, in part, the grandfather provision in the Local Solar Act, which allowed suppliers to rely on the previous solar requirement of 2.85% as less than 13% of 2023 sales were subject to the current requirement. In addition, several suppliers failed to retire a sufficient number of SRECs, resulting in compliance payments.

- Significant RPS-certified solar facility expansion continued in 2023, despite lingering supply chain issues.
- 2,106 new solar energy systems, including 1,718 District systems (of which 66 were community renewable energy facilities (“CREFs”)), were approved for the RPS program as of year-end 2023.
- 13,533 solar energy systems in the District were certified for the RPS program as of year-end 2023, representing 214.5 megawatts (“MW”) of capacity.
- 367 District CREFs are included in the 13,533 systems above, with 45.5 MW of capacity.

## CREFs Certified for the RPS Program as of December 31, 2023

	Number	Capacity (MW)
2019	12	1.10
2020	137	13.29
2021	219	26.53
2022	301	36.35
2023	367	45.51

- According to the Potomac Electric Power Company’s (“Pepco”) semi-annual CREF Report filed in January 2024 (covering year-end

2023), there were 9,115 CREF subscribers in the District.

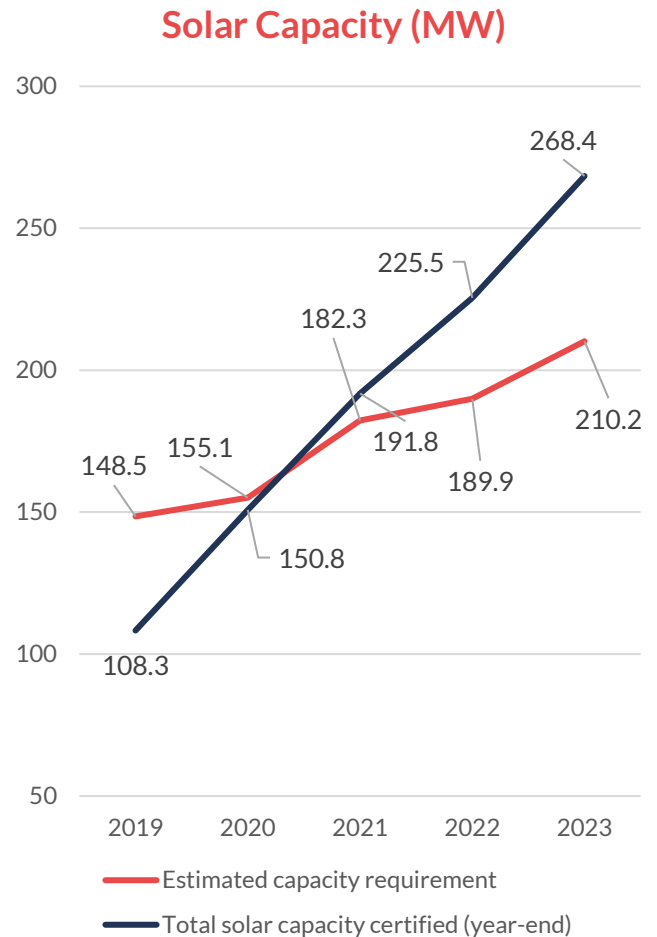
- 3,675 solar energy systems outside of the District – including grandfathered systems in PJM and adjacent states, plus Maryland systems on feeders serving the District – were certified for the RPS program as of year-end 2023, representing 53.9 MW of capacity.

### Solar Energy Systems Certified for RPS

	Number	Capacity (MW)
<b>Solar (DC only)</b>		
2022 (Year-end)	11,815	183.8
Net Additions	1,718	29.1
2023 (Year-end)	13,533	214.5
<b>Solar (Outside DC)</b>		
2022 (Year-end)	3,287	41.7
Net Additions	388	4.6
2023 (Year-end)	3,675	53.9
<b>Total Solar</b>		
2022 (Year-end)	15,102	225.5
Net Additions	2,106	33.7
2023 (Year-end)	17,208	268.4

- Total RPS certified solar capacity of 268.4 MW at year-end 2023 exceeded the

estimated solar capacity of 210.2 MW required to meet the 3% solar requirement for 2023.



- District RPS-eligible solar energy systems are located in all 8 wards. See table below:



ROOFTOP SOLAR PANELS ON FRANK W. BALLOU HIGH SCHOOL (WARD 8)

	No. of systems	% of total systems	MW	% of total MW
Ward 1	1,180	8.7%	12.6	5.9%
Ward 2	512	3.8%	10.2	4.8%
Ward 3	1,273	9.4%	18.7	8.7%
Ward 4	2,734	20.2%	29.1	13.6%
Ward 5	2,335	17.3%	37.7	17.6%
Ward 6	1,610	11.9%	22.5	10.5%
Ward 7	2,473	18.3%	38.7	18.0%
Ward 8	1,416	10.5%	45.0	21.0%

- The total estimated cost of renewable energy credits (“RECs”), retired by retail suppliers, was \$166.8 million – up from \$129.1 million for the 2022 compliance year.
- The total compliance fees paid by retail suppliers was \$1.8 million – up from \$72,250 for the 2022 compliance year – as electricity suppliers generally purchased SRECs with an average price of about \$415 – below the compliance fee of \$500 per SREC shortfall.

## Costs of RPS Compliance

(in millions of dollars)

	REC Costs	Compliance Fees	Total
2018	\$31.9	\$18.7	\$50.6
2019	\$45.2	\$12.1	\$57.3
2020	\$56.8	\$8.2	\$65.0
2021	\$93.4	\$5.7	\$99.1
2022	\$129.1	\$0.07	\$129.2
2023	\$166.8	\$1.8	\$168.6

- The growth in solar energy facilities certified for the RPS program continued in the first quarter of 2024, with 1,071 new systems added (including 12 CREFs).
- The District Department of Energy and Environment (“DOEE”) has developed substantial strategic partnerships (including other District agencies and other organizations) as part of its Solar for All Program to expand the construction of solar systems throughout the District, including community solar systems.
- The Commission, however, can see the potential for the diminution in the development of solar systems predicated upon reduced funding to programs in future budget cycles. The

Commission will continue to monitor any RPS trends moving forward.

- SREC prices in the District remain high, currently trading around \$440 per SREC – by far the highest among the Mid-Atlantic states.
- 46 active competitive suppliers, including Pepco – the default electricity supplier – with retail electricity sales in the District submitted compliance reports, due by April 1, 2024.

The Commission has also taken steps to improve the interconnection of distributed energy resources (“DER”) in the District:

- The Commission published a Notice of Final Rulemaking (“NOFR”) in the *D.C. Register* on May 1, 2020, that eliminated the need for a CREF to directly connect to the distribution system. This decision facilitated the implementation of a virtual CREF (“VCREF”), using a behind-the-meter (“BTM”) configuration for the system, that helps reduce the cost of establishing a CREF by avoiding certain infrastructure upgrades while maintaining safety and reliability.
- The Commission certified the first VCREF, at the Echostage music venue, in December 2020, and is looking forward to additional VCREF facilities (around 2.7 MW) at Gallaudet University, as part of its microgrid project, in 2024.
- The Commission published a NOFR on August 14, 2020, allowing net energy metering (“NEM”) systems for individual BTM generators to exceed 100% of the customer’s historical usage and customer payment for excess



generation. A NEM system can increase the generation threshold by 20% annually, starting in 2020 until the generation threshold reaches 200% in 2024.

- In the interest of enhancing transparency and fostering additional growth, the Commission required Pepco to establish and maintain a public interconnection queue. This new on-line feature went live in late February 2022 and allows developers and customers to view information such as facility capacity, fuel type, and status of the application.
- The Commission issued a NOFR on August 20, 2021, to foster overall CREF growth by

partially subsidizing the distribution system upgrade costs related to CREF interconnections. This rulemaking capped distribution system upgrade cost-sharing to an allocation at \$500,000 per year. Subject to availability of funds, individual projects were capped at \$25,000, or 50% of the upgrade costs.

Following an earlier rulemaking proposal in 2021, the Commission finalized new rules to foster increased accountability and accuracy, and to mitigate the risk of fraud and negligence in the reporting of actual solar facility production. Effective April 1, 2022, new solar facilities, regardless of system capacity, require a revenue grade generation meter or inverter-based generation measurement equipment, as well as the submittal of construction drawings that indicate the orientation of the solar panels.

To help the District meet its climate change commitments and renewable energy goals, the Commission issued **Order No. 21977** on April 1, 2024, directing Pepco to file a Request for Proposals (“RFP”) and a draft power purchase agreement (“PPA”) as modified for the pilot program to procure renewable energy through a long-term PPA for electricity for a target quantity of 5% of the Standard Offer Service (“SOS”) load within 10 days of the date of the Order. Pepco was also directed to issue the modified RFP and draft PPA 15 days following the filing date of the modified RFP and draft PPA unless the Commission directed otherwise within that period. Pepco will file a monthly update until a PPA is executed and filed with the Commission for approval.

The Commission also issued an RFP in 2022 for a community heat pump pilot project to support the development of a large community heat pump system to replace existing fossil fuel space conditioning systems. A \$2.5 million award was made on March 27, 2023, to the Preservation for Affordable Housing for



a community geothermal pilot project at Barry Farm Redevelopment in Ward 8, and a \$2.5 million award was made to E&G Group II, LLC for a community heat pump at the Meadow Green Courts in Ward 7.

The Commission reissued an RFP on March 12, 2024, to fund a Solar Aggregation and Advanced Inverter Pilot Project to be located in the District at site(s) to be identified by the Offeror. The Commission is seeking proposals for aggregations of existing and/or new solar and DER projects that use IEEE 1547-2018 standard compliant inverter systems and inverter settings profiles to automatically manage hosting capacity and communications. The Commission is interested in innovative ideas and technologies that will demonstrate the following outcomes:

- Maximization of solar hosting capacity
- Effectiveness of alternatives to Pepco's requirement for proprietary cellular cabinets for communications between Pepco and DER systems using standardized communication protocol(s)
- Customer-specific benefits
- Distribution-level grid benefits



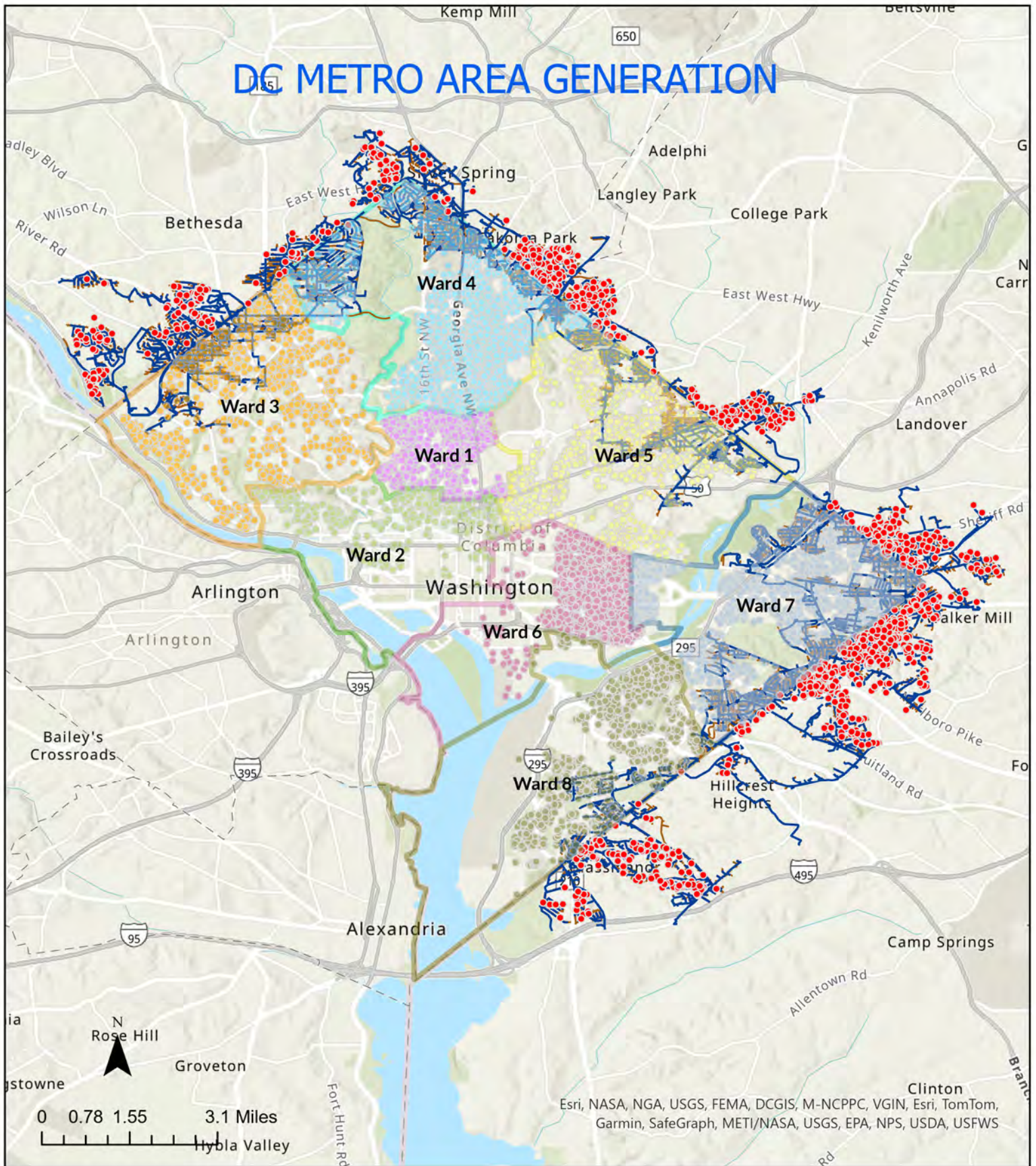
Although this is a pilot project, the expectation is that the DER aggregation will continue to operate after the conclusion of the pilot period; as such it should be designed with a continuity plan in place.

The Commission also plans to host the **2024 Clean Energy Summit** on October 30, 2024. The summit provided an opportunity for industry professionals, environmental advocates, government officials, and academics to exchange ideas and discuss how utility regulators and industry experts can advance progress toward national and local clean energy goals.

Finally, on April 22, 2024, the U.S. Environmental Protection Agency announced that 60 selectees will receive a portion of the \$7 billion in grant awards through the Solar for All grant competition to deliver residential solar projects to over 900,000 households nationwide. The grant competition is funded through the Inflation Reduction Act, which created EPA's \$27 billion Greenhouse Gas Reduction Fund. The District was one of the selectees and will receive \$62.45 million for the Solar for All program that will mobilize financing and private capital to catalyze investment that will increase the scale of deployment of solar, storage and enabling upgrades to benefit low-income residents. Delivering enabling upgrades such as energy efficiency retrofits, roof repair, and electrical upgrades will unlock greater solar potential for rooftop solar systems for low-income homeowners, decrease energy burden for low-income homeowners and renters, increase resiliency, maximize solar potential, and increase opportunities for training and placement in good jobs in the renewable energy and building trades industries.



# DC METRO AREA GENERATION



Esri, NASA, NGA, USGS, FEMA, DCGIS, M-NCPPC, VGIN, Esri, TomTom, Garmin, SafeGraph, METI/NASA, USGS, EPA, NPS, USDA, USFWS

## Legend

- MD Generators
  - Primary CrossBorder Feeders
  - Secondary CrossBorder Feeders
- Ward Number**
- Ward 1
  - Ward 2
  - Ward 3
  - Ward 4
  - Ward 5
  - Ward 6
  - Ward 7
  - Ward 8

The Renewable Energy Portfolio Standard ("RPS") Act, established a minimum percentage of District electricity providers' supply that must be derived from renewable energy sources.



# I — INTRODUCTION AND BACKGROUND

The D.C. Council enacted the REPS Act on January 19, 2005, and established an annual RPS that required a minimum percentage of the District’s electricity suppliers’ retail sales be derived from renewable energy resources beginning January 1, 2007. The RPS minimum requirements, among other things, were amended by the *Clean and Affordable Energy Act of 2008* (“CAEA”). Further changes to the RPS program occurred on August 1, 2011, when the *Distributed Generation Amendment Act of 2011* (“DGAA”) became law. Additional amendments to the RPS program became effective on April 30, 2015, as a result of the *Renewable Energy Portfolio Standard Amendment Act of 2014* (“RPS Amendment Act”); on October 8, 2016, as a result of the *Renewable Portfolio Standard Expansion Amendment Act of 2016* (“RPS Expansion Act”); and on March 22, 2019, as a result of the *CleanEnergy Act*. The most recent changes became effective on March 10, 2023, with the enactment of the *Local Solar Amendment Act of 2022* (“Local Solar Act”).

Renewable energy resources were divided into two categories, Tier I and Tier II, with Tier I resources including solar energy, wind, biomass, methane, geothermal, ocean, fuel cells, and wastewater used as a heat source or sink and Tier II resources including biomass, hydroelectric power other than pumped storage generation and waste-to-energy. Although minimum percentage requirements were specified for Tier I and Tier II resources, Tier I resources could be used to comply with the Tier II standard. In addition, a minimum requirement is carved out specifically for solar energy. The REPS Act allowed an electricity supplier to begin receiving and accumulating RECs as of January 1, 2006.

The REPS Act required that the Commission adopt regulations, or orders, governing the application and transfer of RECs and implementation of the REPS Act. The RPS rules became effective upon the publication of the NOFR in the *D.C. Register* on January 18, 2008. The Commission’s rules can be found in Chapter 29 of Title 15 of the DCMR. As part of its RPS rules, the Commission established a process for certifying eligible renewable energy generators.



The CAEA became law on October 22, 2008. The law, among other things, amended the REPS Act and changed the definition of solar energy to provide eligibility for solar thermal applications that do not generate electricity, raised the RPS requirements to 20% by 2020, and increased certain alternative compliance fees.

The DGAA disallowed most new solar energy systems located outside of the District from being certified by the Commission for the RPS program after January 31, 2011 – although solar energy systems located outside of the District that were certified prior to February 1, 2011, were “grandfathered” and remain eligible under the RPS program for the solar carve-out requirement. In addition, among other things, the legislation increased the solar RPS requirement from 2011 through 2023 (up to 2.5% by 2023 as opposed to 0.4% by 2020), disallowed the certification of solar energy systems larger than 5 MW in capacity, amended the solar compliance fees

for 2011 through 2023, and changed the eligibility requirements for solar thermal systems.

Pursuant to the DGAA, in **Order No. 16528** (released September 9, 2011), the Commission denied all applications by solar energy facility owners seeking RPS certification, which were not located within the District, or in locations connected to a Pepco distribution feeder serving the District, and pending before the Commission on August 1, 2011. Moreover, in **Order No. 16529** (released September 9, 2011), the Commission decertified 1,426 solar energy facilities not located within the District, or in locations served by a distribution feeder serving the District, and certified by the Commission between February 1, 2011, and the effective date of the DGAA, August 1, 2011, as

well as any solar facilities with a capacity larger than 5 MW, regardless of the date certified.

As a result of the RPS Amendment Act, the eligibility of “qualifying biomass” resources was changed. The RPS Amendment Act requires that, to qualify as a Tier I renewable resource, a generation unit using biomass must: achieve a total system efficiency of at least 65% on an annual basis; demonstrate that it achieved a total system efficiency of at least 65% on an annual basis through actual operational data after one year; demonstrate that it started commercial operation after January 1, 2007; and refrain from using black liquor. Under this law, those biomass generation units that cannot achieve a total system efficiency of at least 65%, or that started commercial operations on or before December 31, 2006, or that use black liquor, can no longer qualify as Tier I resources. Rather, they now qualify as Tier II resources. Finally, any extension or renewal of energy supply contracts executed on or after August 1, 2011, shall be subject to the higher solar energy requirement.

Subsequently, the RPS Expansion Act raised the RPS requirement to 50% percent from Tier I resources by 2032, with not less than 5% from solar energy. In addition, the RPS Expansion Act amended the solar RPS compliance fee and kept it at \$0.50 per kilowatt-hour (“kWh”) through 2023, before decreasing to \$0.05 per kWh by 2033. Previously, the solar compliance fee was set to begin decreasing in 2017.

The CleanEnergy Act increased the RPS requirement to 100% from Tier I resources by 2032 and thereafter, with not less than 5.5% from solar energy systems in 2032. The CleanEnergy Act ultimately increased the solar energy RPS requirement to 10% by 2041. In addition, the Act restricted the geographical location of renewable generators to the PJM Interconnection region but allowed existing renewable energy





generators certified for the RPS program to continue to create RECs until January 1, 2029.

More recently, the Local Solar Act increased the solar RPS requirement from 10% to 15% by 2041, adjusted the phasedown of the alternative compliance payment for local solar, and required the Office of People’s Counsel to commission a study of the benefits and costs of the District’s local solar policies every three years, among other things.



In calendar year 2023 there were 46 electricity suppliers, including the default SOS administrator, who reported electricity sales to retail customers in the District. Pursuant to the Commission’s RPS rules, each of these active suppliers submitted the required compliance report that was due by the April 1, 2024, statutory deadline. These reports show that competitive electricity suppliers and Pepco, the SOS administrator, met the RPS requirements through purchasing RECs and when they were unable to make REC purchases, they made compliance fee payments. As is shown in the following table, seven suppliers were required to submit a compliance fee payment in addition to or in lieu of acquiring RECs. Based on the available information, the total amount of money generated from compliance fee payments in 2023 was nearly \$1.8 million, compared to \$72,250 in 2022. The increase in the amount of the 2023 compliance fees may not necessarily reflect any difficulty in acquiring solar RECs to meet the RPS compliance

obligation, despite an increase in the solar carve-out requirement.

## RPS Requirements and Compliance

	2019	2020	2021	2022	2023
Tier I	17.5%	20%	26.25%	32.5%	38.75%
Tier II	0.5%	0%	0%	0%	0%
Solar	1.85%	2.18%	2.50%	2.60%	3.00%
No. of Electricity Suppliers	46	47	46	48	46
No. Paying Compliance Fee	12	8	5	2	7
% Not Paying Compliance Fee	73.9%	83%	89.1%	95.8%	84.8%

**Section II** provides a summary of the steps that the Commission has taken to implement the RPS in the District. **Section III** reviews the RPS compliance reports submitted for the 2023 compliance year. **Section IV** presents information on the current availability of renewable resources. Finally, **Section V** summarizes other ongoing actions by the Commission to implement the RPS in the District and next steps.

Additionally, **Attachment 1** provides a national perspective on what other states are doing with respect to the implementation of their renewable portfolio standards. **Attachment 2** contains a list of selected orders that the Commission has issued to implement the RPS.

## II — SUMMARY OF THE IMPLEMENTATION OF THE RENEWABLE ENERGY PORTFOLIO STANDARD

This section provides a brief description of the history of actions that the Commission has undertaken to implement the RPS. In order to establish a record and to begin implementation of the REPS Act, the Commission issued **Order No. 13566** (released April 29, 2005), inviting interested parties to submit their views on 12 RPS-related issues:

- process and timeline that the Commission should adopt to implement the Act;
- procedure to apply for, verify, and transfer RECs;
- type(s) of renewable energy projects that are feasible within the District;
- process for certifying the eligibility of generating facilities;
- standards that should apply to customer generators;
- information that should be submitted in an electricity supplier’s annual compliance report;
- appropriate procedures for cost recovery by Pepco;
- standards that the Commission should employ for determining whether the compliance costs claimed by Pepco were prudently incurred;
- verification of an electricity supplier’s compliance with the RPS;
- imposition of an administrative fee;
- data and confidentiality concerns of stakeholders; and
- states that qualify as being within or adjacent to the PJM Interconnection Region.

In **Order No. 13766** (released September 23, 2005), the Commission addressed the various issues based on the record developed in response to **Order No. 13566**. By this Order, the Commission directed interested parties to form a RPS Working Group to examine in more detail certain issues related to the implementation of the REPS Act, and to propose a timeline and recommendations for a two-phased approach to resolving those issues. The Commission also indicated that the PJM Environmental Information Services (“PJM-EIS”) Generation Attribute Tracking System (“GATS”) would be used in the implementation of the REPS Act. In addition, the Commission indicated its intent to establish regulations to govern the application and transfer of RECs, on an interim basis, prior to January 1, 2006.

### RPS Rules

Based on input from the RPS Working Group, the Commission established interim RPS rules in **Order No. 13840** (released December 28, 2005). These rules were subsequently amended in **Order No. 13899** (released March 27, 2006) and **Order No. 14225** (released March 2, 2007). The Commission eventually established a formal rulemaking process and on November 2, 2007, a NOPR appeared in the *D.C. Register* requesting comments on revised RPS rules that were based, in part, on the interim RPS rules. After receiving and reviewing comments on the NOPR, the Commission issued **Order No. 14697** (released January 10, 2008) and adopted Chapter 29 of Title 15 District of Columbia Municipal Regulations (“Final Rules”). The Final Rules became effective upon the publication of the NOFR in the *D.C. Register* on January 18, 2008. Additional changes to the RPS rules became effective on January 31, 2020, following the publication of a NOFR in the *D.C. Register*. The most recent changes to the rules were published in the *D.C. Register* on March 22, 2024.



The rules establish definitions for various terms consistent with the REPS Act, compliance requirements for electricity suppliers, certification of renewable generators, policies regarding the creation and tracking of RECs, and directives concerning the recovery of fees and costs.

## Compliance Requirements for Electricity Suppliers

The RPS rules include compliance requirements for electricity suppliers beginning in 2007. Under the current requirements, suppliers are to file annual reports that include the following components:

1. the quantity of annual District retail electricity sales;
2. a calculation of the annual quantity of required Tier I, Tier II, and Solar RECs;
3. the quantity of Tier I, Tier II, and Solar RECs purchased and evidence of those purchases;
4. the quantity of Tier I, Tier II, and Solar RECs transferred to the electricity supplier by a Renewable On-Site Generator;
5. a calculation of any compliance fees owed by the energy supplier;
6. certification of the accuracy and veracity of the report;
7. all documentation supporting the data in the annual compliance report;
8. a summary report of RECs retired during the reporting period; and
9. the total price paid for Tier I, Tier II, and Solar RECs.

An electricity supplier that fails to meet its RPS requirements must submit an annual compliance fee payment to the District of Columbia Renewable Energy Development Fund administered by the DOEE.

To facilitate the compliance reporting, the Commission issued **Order No. 14782** (released April 10, 2008) and adopted a 2007 Compliance Report form for the District's RPS Program, along with the associated filing instructions. This material was made available on the Commission's website. Electricity suppliers used the form to submit the 2007 compliance reports due May 1, 2008. A revised compliance reporting form was included in a January 2, 2009 NOPR to reflect changes mandated by the CAEA. The revised compliance reporting form was adopted in **Order No. 15233** (released April 7, 2009) and became effective upon publication of the NOFR in the *D.C. Register* on April 10, 2009. The compliance reporting form was revised again to address the DGAA legislation, with a NOPR appearing in the *D.C. Register* on January 13, 2012. The revised compliance reporting form was adopted in **Order No. 16738** (released March 15, 2012) and became effective upon publication of the NOFR in the *D.C. Register* on March 23, 2012. More recently, on January 23, 2024, the Commission issued a Public Notice to provide information on an updated compliance reporting form for the 2023 compliance year.

## Certification of Renewable Generators

The RPS rules outline the process for certifying renewable generating facilities within a certain period of time. Renewable generators, including BTM generators, must be certified as a qualified Tier I (including solar energy systems) or Tier II renewable source through the completion of an application approved by the Commission. The Commission assigns a unique certification number to each eligible renewable energy generator that is approved. Renewable energy generators may be decertified by the Commission if they are determined to no longer be an eligible renewable resource due to a material change in the nature of the resource, gross negligence, or fraud. Unless the generator facility owner requests it, or a

District law mandates otherwise, 30 days written notice will be given with an opportunity to show cause why it should not be decertified.

In **Order No. 14809** (released May 12, 2008), the Commission directed the RPS Working Group to submit an update for the Tier I and Tier II renewable sources eligibility matrices, to comply with the RPS rules. The matrices allow an applicant that has already been certified by another state in the PJM Interconnection region to use the streamlined process for RPS certification, provided that the Commission determines that the certification by the other PJM state is comparable to the RPS requirements in the District. The RPS Working Group responded on October 31, 2008, that no update was required. Subsequently, the Commission issued **Order No. 15192** (released February 18, 2009), directing the RPS Working Group to again comply with the rules and submit an update for the Tier I and Tier II eligibility matrices within 60 days of the date of the Order. The Commission noted in that Order that, since 2007, four additional states which are part of the PJM Interconnection region — Illinois, Michigan, North Carolina, and Ohio — have adopted renewable energy portfolio standards and/or begun certifying renewable energy generators.

In **Order No. 15707** (released February 25, 2010), the Commission granted Pepco, filing on behalf of the RPS Working Group, a Motion for Enlargement of Time to file the annual update of the eligibility matrices by March 1, 2010. Subsequently, in **Order No. 17062** (released February 1, 2013), the Commission adopted the 2011 filing of the RPS Working Group's proposed Tier I and Tier II Eligibility Matrices with certain modifications. In **Order No. 17349** (released January 13, 2014), the Commission adopted the RPS Working Group's proposed Tier I and Tier II Eligibility Matrices submitted for 2013. On January 30, 2014, the RPS Working Group's filing indicated that there

were no modifications needed to the eligibility matrices presented in the 2013 Working Group report. Thus, no Commission action was necessary as the Working Group's 2013 eligibility matrices were adopted in **Order No. 17349**. Subsequently, on January 29, 2015, the RPS Working Group filed its 2015 Update to the Renewable Generator Eligibility Matrix and determined that the information submitted in the 2014 Report remains unchanged, so no Commission action was necessary. The Commission responded to a Motion filed by Pepco to suspend the annual update of the Eligibility Matrix, its NOFR dated December 14, 2018, and removed the streamlined application process.

On October 3, 2008, the Commission published a NOPR in the *D.C. Register* that contained revisions to the RPS rules that would, among other things, allow an applicant seeking to certify a renewable generator for the District's RPS program to provide a self-certified Affidavit of Environmental Compliance. This Affidavit helps provide documentation that the renewable generating facility complies with all applicable state and federal environmental requirements. On January 2, 2009, the Commission issued an amended NOPR that superseded the October 3 NOPR. Subsequently, in **Order No. 15233** (released April 7, 2009), the Commission adopted the amendments to the RPS rules. The amendments to the RPS rules became effective upon publication of a NOFR in the *D.C. Register* on April 10, 2009. Subsequently, at the discretion of the Commission, a NOFR appeared in the *D.C. Register* on January 16, 2015, to remove the application requirement for an Affidavit of Environmental Compliance from solar energy systems.

On January 2, 2019, the Commission launched a new online application system ("RPS Portal") to facilitate the certification of renewable generators for the District's RPS program. The new system provides a convenient and secure tool for users to submit and track



their RPS applications. In addition, the RPS Portal allows Commission staff the ability to review and communicate easily with applicants and has improved the administrative efficiency in processing applications.

## Creation and Tracking of Renewable Energy Credits

The Commission's RPS rules specify that RECs shall be created and tracked through PJM-EIS's GATS beginning January 1, 2006. Through the GATS process, PJM-EIS collects generation data from renewable energy facilities certified for RPS programs in various states. Upon issuance of a District-specific RPS certification number, a facility may open a GATS account for use with the District's RPS program. Facilities often are eligible for participation in several state RPS programs and, thus, will be certified with multiple states and receive multiple state certification numbers. GATS posts RECs for each month. One REC represents one megawatt-hour of electricity from a renewable resource. The number of RECs created reflects the amount of electricity generation associated with renewable resources. Each REC tracked in GATS has a unique serial number that aids in ensuring against the double counting of RECs and helps distinguish between RECs that are created by a certain facility and by fuel type, in a given month.

According to the RPS rules, RECs are generally valid for a 3-year period from the date of generation, beginning January 1, 2006. A REC shall be retired after it is used to comply with any state's RPS requirement. The accumulation of retroactive RECs created before January 1, 2006, is not allowed. In **Order No. 13804**, the Commission noted that the intent of the REPS Act is to encourage the production and siting of renewable resources prospectively, therefore reducing the need for the use of retroactive RECs. Effective with the enactment of the CleanEnergy Act, SRECs are

now valid for a 5-year period from the date of generation.

With respect to BTM generators, the RPS rules require an authorized representative of the renewable on-site generator to file a BTM generator report with the Commission. RECs created by BTM generators must be recorded in GATS at least once each calendar year, in order to be eligible for compliance. The BTM generator report contains, at a minimum, the following information: (a) a certification that the RECs attributable to the on-site generation have not expired, been retired, transferred, or redeemed; and (b) a report or statement indicating the quantity of electricity generated as determined by an engineering estimate (if appropriate) or revenue-quality meter.

To ensure that all BTM generators were in compliance with the Commission's rules, **Order No. 14798** (released April 29, 2008) directed BTM generators certified for the District's RPS program to submit a BTM generation report by May 20, 2008. In addition, as part of the approval of 20 solar generators in **Order No. 15185** (released February 9, 2009), the Commission initially required that these generators provide BTM generation reports consistent with the RPS rules. However, upon learning that PJM-EIS makes available BTM generation information through its website, the Commission subsequently removed the reporting requirement for BTM generators when the RPS rules were amended by the NOFR that went into effect on March 23, 2012.

A NOFR was published in the *D.C. Register* on April 1, 2022, requiring all newly installed solar photovoltaic ("PV") systems to install revenue-grade metering equipment, regardless of system capacity. Previously approved PV systems less than 10 kilowatts ("kW") were exempted from this new requirement, as well as systems submitted to the RPS Portal, or pending approval, prior to the effective date of the rulemaking.

## Recovery of Fees and Costs

The RPS rules state that the local electric distribution company (Pepco) may recover prudently incurred RPS compliance costs, including REC purchases and any compliance fees, through a non-bypassable surcharge on customers' bills pursuant to Commission Rule 2905 and D.C. Code § 34-1435 (2014 Supp.) Pepco, the SOS Administrator, has never sought to recover RPS compliance costs for the SOS program through a non-bypassable surcharge on customers' bills. Instead, winning SOS suppliers bid into the competitive auction a full requirements product that includes all costs (including RPS costs) – other than transmission and distribution costs which are Pepco tariffed costs.

Like the SOS administrator, competitive electricity suppliers simply bill customers a bundled generation charge rather than breaking out the cost of generation into line items such as RPS compliance costs. Thus, RPS compliance costs are generally embedded in the cost of generation charged by competitive electricity suppliers. Consistent with Commission Rule 2905 and D.C. Code § 34-1435, competitive electricity suppliers can also seek to recover prudently incurred compliance fees through a Commission-approved non-bypassable surcharge on customers' bills. To date, no electricity supplier has ever sought or received the Commission's approval to recover the cost of compliance fees through a surcharge.

## Clean and Affordable Energy Act of 2008

The CAEA became law on October 22, 2008. This legislation amended the REPS Act, and those amendments are discussed briefly below. The Commission addressed these amendments, as appropriate, in a NOPR issued on April 3, 2009. After reviewing the comments to the NOPR, the Commission adopted the NOFR in **Order No. 15561** (released September 28,

2009). The amendments to the RPS rules became effective upon publication of the NOFR in the *D.C. Register* on October 2, 2009.

## Solar Energy Definition

The RPS Rules originally defined “solar energy” to mean “radiant energy, direct, diffuse, or reflected, received from the sun at wavelengths suitable for conversion into thermal, chemical, or electrical energy.” The CAEA changed the definition of “solar energy” to add the new language in bold:

“...radiant energy, direct, diffuse, or reflected, received from the sun at wavelengths suitable for conversion into thermal, chemical, or electrical energy, **that is collected, generated, or stored for use at a later time.**”

## Solar System Ratings

The CAEA allowed the certification of solar thermal energy systems as follows:

“For nonresidential solar heating, cooling, or process heat property systems producing or displacing greater than 10,000 kilowatt hours per year, the solar systems shall be rated and certified by the SRCC [Solar Rating and Certification Corporation] and the energy output shall be determined by an onsite energy meter that meets performance standards established by OIML [International Organization of Legal Metrology].”

“For nonresidential solar heating, cooling, or process heat property systems producing or displacing 10,000 or less than 10,000 kilowatt hours per year, the solar systems shall be rated and certified by the SRCC and the energy output shall be determined by the SRCC OG-300 annual system performance rating



protocol applicable to the property, by the SRCC OG-100 solar collector rating protocol, or by an onsite energy meter that meets performance standards established by OIML,” and

“For residential solar thermal systems, the system shall be certified by the SRCC and the energy output shall be determined by the SRCC OG-300 annual rating protocol or by an onsite energy meter that meets performance standards established by OIML.”

## RPS Requirements

The CAEA amended the requirements for the RPS. In particular, beginning in 2011, the RPS requirements increased. By 2020, the CAEA requires that 20% of electricity supplied comes from Tier I renewable sources only and not less than 0.4% comes from solar energy. Previously, the RPS requirement called for 8.5% of electricity supplied coming from Tier I renewable sources only by 2020 and 0.329% from solar energy.

## Solar Requirement

The CAEA required that:

“...an electricity supplier shall meet the solar requirement by obtaining the equivalent amount of renewable energy credits from solar energy systems interconnected to the distribution grid serving the District of Columbia. Only after an electricity supplier exhausts all opportunity to meet this requirement that the solar energy systems be connected to the grid within the District of Columbia, can that supplier obtain renewable energy credits from jurisdictions outside the District of Columbia.”

## Compliance Fees

The CAEA increased the compliance fees for Tier I and solar energy requirements. In particular, the Tier I compliance fee was raised from \$0.025 per kilowatt-hour to \$0.05 per kilowatt-hour of shortfall (in REC purchases). For solar energy resources, the compliance fee was raised from \$0.30 to \$0.50 in 2009 until 2018 for each kilowatt-hour of shortfall.

## Distributed Generation Amendment Act of 2011

The DGAA became law on October 20, 2011. The legislation amended Sections 34-1431-1439 of the Renewable Energy Portfolio Standard. These amendments to the statute are discussed briefly below. The Commission addressed these statutory revisions, as appropriate, in a NOPR amending the RPS rules issued on January 13, 2012. No comments were received on the NOPR and the Commission adopted the proposed amendments to the RPS rules in **Order No. 16738** (released March 15, 2012). The amendments to the RPS rules became effective upon publication of a NOFR in the *D.C. Register* on March 23, 2012.

## Solar Thermal Systems

The DGAA amended the requirements for eligible solar thermal energy systems by removing the requirement that all such systems have a certification from the Solar Rating and Certification Corporation (“SRCC”). The new language is as follows:

“For nonresidential solar heating, cooling, or process heat property systems producing or displacing greater than 10,000 kilowatt hours per year, the solar collectors used shall be SRCC OG-100 certified and the energy output shall be determined by an onsite energy meter that meets performance standards established by OIML.”

“For nonresidential solar heating, cooling, or process heat property systems producing or displacing 10,000 or less than 10,000 kilowatt hours per year, the solar collectors used shall be SRCC OG-100 certified and the energy output shall be determined by the SRCC OG-300 annual system performance rating protocol or the solar collectors used shall be SRCC OG-100 certified and the energy output shall be determined by an onsite energy meter that meets performance standards established by OIML.”

“For residential solar thermal systems, the systems shall be SRCC OG-300 system certified and the energy output shall be determined by the SRCC OG-300 annual rating protocol or the solar collectors used shall be SRCC OG-100 certified and the energy output shall be determined by an onsite energy meter that meets performance standards established by OIML.”

These changes also made it easier for large nonresidential solar thermal systems to participate in the RPS program as these larger systems are able to meet the requirements for the certification of solar collectors under SRCC OG-100, but not the system certification under SRCC OG-300.

## RPS Solar Requirements

The DGAA amended the requirements for the RPS. In particular, beginning in 2011, the RPS solar requirements increase through 2023. By 2023, the DGAA requires 2.5% from solar energy resources. Previously, the RPS requirement called for 0.4% from solar energy resources by 2020. In addition, the DGAA legislation restricted the location of eligible solar energy resources:

“...an electricity supplier shall meet the solar requirement by obtaining the equivalent amount of renewable energy credits from solar energy systems no larger than 5 MW in capacity located within the District or in locations served by a distribution feeder serving the District.”

Moreover, the DGAA included a “grandfathering” provision that exempted electricity supply contracts, signed prior to the effective date of the legislation, from the increased solar RPS requirements.

## Generation Certification

The DGAA also amended the requirements for RPS certification:

“After January 31, 2011, the Commission shall not certify any tier one renewable source solar energy system larger than 5 MW in capacity or any tier one renewable source solar energy system not located within the District or in locations served by a distribution feeder serving the District.”

“Any tier one renewable source solar energy system larger than 5 MW in capacity shall be decertified by the Commission. Any tier one renewable source solar energy system not located within the District or in locations served by a distribution feeder serving the District, first certified by the Commission between February 1, 2011, and the applicability date of the Distributed Generation Amendment Act of 2011, passed on 2nd reading on July 12, 2011 (Enrolled version of Bill 19-10), shall be decertified by the Commission.”



## Compliance Fees

The DGAA altered the compliance fees for electricity suppliers that do not purchase enough RECs to meet the annual RPS for solar energy. In particular, for each kWh of shortfall from required solar energy sources, the compliance payment is \$0.50 in 2011 through 2016, \$0.35 in 2017, \$0.30 in 2018, \$0.20 in 2019 through 2020, \$0.15 in 2021 through 2022, and \$0.05 in 2023 and thereafter.

## Renewable Energy Portfolio Standard Amendment Act of 2014

The RPS Amendment Act became effective on April 30, 2015. The legislation primarily affected the eligibility of qualifying biomass resources. The amendments to the statute are discussed briefly below. The Commission addressed these statutory revisions, as appropriate, in an amendment to the RPS rules that became effective upon publication of a NOFR in the *D.C. Register* on April 1, 2016.

## RPS Compliance Requirements

Under the DGAA, energy supply contracts entered into prior to August 1, 2011, shall not be subject to the increased solar energy RPS requirement. However, as a result of the RPS Amendment Act, any extension or renewal of such contracts, executed on or after August 1, 2011, shall be subject to the higher solar energy RPS requirement. This affects the ability of electricity suppliers to take advantage of the contracts grandfathering provision that was included in the DGAA.

## Generator Certification and Eligibility

The RPS Amendment Act, in part, requires qualifying biomass facilities to meet a certain efficiency standard in order to be eligible as a Tier I resource. Thus, the Commission now requires every facility using qualifying biomass to generate electricity and

certified as a qualifying renewable source by the Commission to submit annually by June 1, starting in 2016, information demonstrating each facility's total system efficiency for the current calendar year.

## Definitions and Applicability

The relevant changes (highlighted) to the definitions and applicability of the RPS statutes as implemented in the RPS rules are indicated below:

### Black liquor

The spent cooking liquor from the Kraft process of paper making.

### Fuel input

The higher heating value of the input fuel type, measured in BTU/LB, based on the standardized heating type of fuel type, multiplied by the annual fuel used in as delivered tons, multiplied by 2000.

### Qualifying biomass

A solid, non-hazardous, cellulosic waste material that is segregated from other waste materials, and is derived from any of the following forest-related resources, with the exception of old growth timber, construction and demolition-derived wood and whole trees that are not part of a closed-loop biomass system, cleared solely for the purpose of energy production, unsegregated solid waste, or post-consumer wastepaper.

Construction and demolition-derived wood and whole trees that are not part of a closed-loop biomass system, cleared solely for the purpose of energy production, shall be considered qualifying biomass, if a) this material was used to generate RECs and those RECs are retired for compliance purposes with

respect to electricity consumed by SOS customers on or before May 31, 2015; or b) this material was used by a facility certified before April 30, 2015, the effective date of the Renewable Energy Portfolio Standard Amendment Act of 2014, to generate RECs, which were purchased by an electricity supplier pursuant to a contract executed before April 30, 2015, and those RECs are retired for compliance purposes with respect to electricity consumed by non-SOS customers on or before December 31, 2017.

In all other instances, the construction and demolition-derived wood and whole trees that are not part of a closed-loop biomass system, cleared solely for the purpose of energy production, shall not be considered qualifying biomass, as of April 30, 2015.

Tier one renewable source — one (1) or more of the following types of energy sources:

(c) Qualifying biomass used at a generation unit that achieves a total system efficiency of at least sixty-five percent (65%) on an annual basis, can demonstrate that it achieved a total system efficiency of at least 65% on an annual basis through actual operational data after one year, and that started commercial operation after January 1, 2007;

The qualifications to qualifying biomass in subsection (c) shall not apply to RECs retired for compliance purposes with respect to electricity consumed by SOS customers on or before May 31, 2015; or with respect to electricity consumed by non-SOS customers on or before December 31, 2017, provided that these RECs were produced by a facility certified as a Tier I energy source before April 30,

2015 and were purchased by an electricity supplier pursuant to a contract executed before April 30, 2015. In all other instances, subsection (c) shall apply as of April 30, 2015.

Tier two renewable source — one (1) or more of the following types of energy sources:

(c) Qualifying biomass used at a generation unit that started commercial operation on or before December 31, 2006; or achieves a total system efficiency of less than 65%; or uses black liquor.

Subsection (c) shall not apply to RECs retired for compliance purposes with respect to electricity consumed by SOS customers on or before May 31, 2015; or with respect to electricity consumed by non-SOS customers on or before December 31, 2017, provided that these RECs were produced by a facility certified as a Tier I energy source before April 30, 2015 and were purchased by an electricity supplier pursuant to a contract executed before April 30, 2015. In all other instances, subsection (c) shall apply as of April 30, 2015.

#### **Total system efficiency**

The sum of the net useful thermal energy output measured in BTUs divided by the total fuel input.

#### **Useful thermal energy output**

Energy in the form of direct heat, steam, hot water, or other thermal form that is used in production and beneficial measures for heating, cooling, humidity control, process use, or other valid thermal end use energy requirements and for which fuel or electricity would otherwise be consumed. Useful thermal energy output does not include thermal energy



used for the purpose of drying or refining biomass fuel.

## Renewable Portfolio Standard Expansion Amendment Act of 2016

The RPS Expansion Act became effective on October 8, 2016. The law increased and extended the RPS requirement to 50% by 2032 – with the solar energy RPS requirement rising to 5% by 2032. The amendments to the statute are discussed briefly below. The Commission addressed these statutory revisions, as appropriate, in **Order No. 18749** (released April 13, 2017) and the amendment to the RPS rules became effective upon publication of a NOFR in the *D.C. Register* on May 5, 2017.

### RPS Requirements

The RPS Expansion Act amended the RPS and raised the requirement from 2024 through 2032. By 2023, 20% of the electricity supplied must be associated with Tier I renewable resources only and not less than 2.5% comes from solar energy. As a result of the RPS Expansion Act, the RPS requirement continues to rise from 2024 until it reaches 50% by 2032, with 5% from solar energy.

Under the DGAA, and as part of meeting the solar RPS requirement, a supplier was obligated to obtain SRECs from solar energy systems no larger than 5 MW in capacity located within the District or in locations served by a distribution feeder serving the District. However, SRECs from solar energy systems larger than 5 MW in capacity located on property owned by the District, or by an agency or independent authority of the District, may be used to meet the solar RPS requirement as well. The RPS Expansion Act increased the 5 MW amount referenced earlier to 15 MW.

## Compliance Fees

The RPS Expansion Act altered the compliance fees for solar energy. Under the DGAA, the solar energy RPS compliance fee payment was set to decrease from \$0.50 per kWh in 2016 to \$0.35 in 2017, then \$0.30 in 2018, then \$0.20 in 2019 through 2020, then \$0.15 in 2021 through 2022 until reaching \$0.05 in 2023 and thereafter. As a result of extending the RPS requirement to 2032 and increasing the solar energy requirement to 5% by 2032, the solar energy compliance fee payment is now set at \$0.50 from 2016 through 2023, \$0.40 from 2024 through 2028, \$0.30 from 2029 through 2032, and \$0.05 cents in 2033 and thereafter. However, the law also grandfathered the compliance fees under the DGAA for 5 years after the effective date of the Act, for any contracts entered into before the effective date of the Act, excluding any extension or renewal of such a contract.

## Definitions and Applicability

The RPS Expansion Act also added “raw or treated wastewater used as a heat source or sink for a heating or cooling system” to the definition of a Tier I renewable source.

## CleanEnergy DC Omnibus Amendment Act of 2018

The CleanEnergy Act became effective on March 22, 2019. The law increased and extended the RPS requirement to 100% by 2032 – with the solar energy RPS requirement rising to 5.5% by 2032 and then increasing to 10% by 2041. The amendments to the statute are discussed briefly below. The Commission addressed some of these statutory revisions, as appropriate, in **Order No. 19859** (released March 13, 2019) and addressed the remaining legislative changes in a NOFR published in the *D.C. Register* on January 31, 2020.

## RPS Requirements

The CleanEnergy Act amended the RPS and, thereby, raised the Tier I and SREC acquisition requirements again. By 2032, 100% of the electricity supplied must be associated with Tier I renewable sources only and not less than 5.5% comes from solar energy. The solar RPS requirement continues to rise after 2032 until it reaches 10% by 2041 and thereafter. However, for three years after January 1, 2019, the new requirements shall not apply to contracts entered into prior to the effective date of the Act.

## Compliance Fees

The CleanEnergy Act altered the compliance fees for solar energy RPS after 2032. The solar energy RPS compliance fee payment is now set at \$0.50 per kWh from 2018 through 2023, \$0.40 from 2024 through 2028, \$0.30 from 2029 through 2041, and \$0.10 in 2042 and thereafter. In addition, the law shifted the payment of the compliance fee from when the annual compliance report is filed on April 1 to between October 1 and November 1.

## Reporting Requirements

The CleanEnergy Act requires electricity suppliers to provide additional information in 2019 through 2022. This new information relates to contracts – such as the duration of the contract, the amount of electricity associated with the contract, and the number of such contracts – that are exempt from the higher compliance fees pursuant to the RPS Expansion Act. Similar information was also required for contracts that would be exempt from the CleanEnergy Act. Moreover, the legislation requires the Commission to report on this new information, to include the total amount of the District’s electricity supply that was exempt from the current RPS requirements – including the previous year, the current year, and each subsequent year that the exemption applies – pursuant to the RPS Expansion

Amendment Act, as well as similar information about exempt sales under the CleanEnergy Act.

## Application of RECs

As a result of the enactment of the CleanEnergy Act, the banking period for solar RECs – the effective lifespan of a REC that is not retired for compliance purposes – was extended from three years to five years. This applies to renewable generation as of the effective date of the Act – from a practical standpoint this should be beginning April 1, 2019. That is, although the legislation was effective as of March 22, 2019, GATS provides information on RECs on a monthly basis and it is appropriate to start the tracking of RECs as of a full month.

## Definitions and Applicability

The CleanEnergy Act amended the definition of a “renewable energy credit” and restricted the location of the energy produced from a renewable resource to the PJM Interconnection region. However, the legislation also allowed renewable resources located within a state adjacent to the PJM Interconnection region and certified by the Commission as of the applicability date of the CleanEnergy Act to continue to produce RECs until January 1, 2029.

## Local Solar Expansion Amendment Act of 2022

The Local Solar Act became effective on March 10, 2023. Among other things, the law increased the solar RPS requirement from 10% to 15% by 2041. Statutory changes not directly affecting the implementation of the District’s RPS program include directing a portion of the funds collected from the alternative compliance payment each year to provide supplemental funding to the District’s low-income ratepayer relief fund, programming to increase the number of low-income ratepayers participating in the

District’s energy affordability programs, and requiring the Office of People’s Counsel to commission a study of the benefits and costs of the District’s local solar policies every three years. The Commission addressed appropriate statutory changes in a NOFR published in the *D.C. Register* on March 22, 2024.

## **RPS Requirements**

The Local Solar Act amended the RPS requirements again and raised the solar requirements. By 2041, 15% of the District’s retail electricity sales must be met from solar energy sited within the District or on a feeder serving the District – for a facility sited in Maryland. However, for three years after March 10, 2023, the new requirements shall not apply to contracts entered into prior to the effective date of the Act.

## **Compliance Fees**

The Local Solar Act also amended the compliance fees for each kWh of shortfall from solar energy. The compliance fee for solar energy is now set at \$0.50 per kWh shortfall through 2023. After 2023, the solar compliance fee is lowered by \$0.02 per kWh each year from 2024 through 2033. In 2033 through 2041, the solar compliance fee is \$0.30 per kWh and \$0.10 in 2042 and thereafter.



## III — RPS COMPLIANCE REPORTS FOR 2023

Pursuant to the Commission’s RPS rules, active electricity suppliers and the default supplier with retail sales in 2023 are required to submit a compliance report by April 1, 2024, for that calendar year. A total of 46 suppliers, including Pepco, were required to report on their compliance:

- AEP Energy
- Alpha Gas and Electric
- Ambit Energy
- Atlantic Energy
- BP Energy Retail Company
- Calpine Energy Solutions
- Champion Energy Services
- CleanChoice Energy
- Clearview Energy
- Constellation NewEnergy
- CPV Retail Energy
- DC Gas and Electric
- Devonshire Energy
- Direct Energy Business
- Direct Energy Services
- Eligo Energy
- ENGIE Resources
- Freepoint Energy Solutions
- Grid Power Direct
- Horizon Power and Light
- IDT Energy
- Inspire Energy
- Major Energy Electric Services
- Median Energy
- MidAmerican Energy
- MP2 Energy
- Mpower Energy
- NextEra Energy Services
- Nordic Energy Services
- Palmco Power DC

- Park Power
- Pepco
- Public Power
- Reliant Energy Northeast
- Renaissance Power and Gas
- RPA Energy
- SmartEnergy
- Smartest Energy
- Stream Energy
- SunSea Energy
- Think Energy
- Titan Gas and Power
- UGI Energy Services
- Viridian Energy
- WGL Energy Services
- XOOM Energy

### RECs and Compliance Fee Payments

In general, in order to meet the solar requirement, the statute provides that RECs must be generated by solar energy facilities that are located within the District or in locations served by a distribution feeder serving the District. However, solar energy systems outside of the District that were certified by the Commission prior to February 1, 2011, may still be used to meet the solar carve-out requirement. These latter solar energy systems are referred to as “grandfathered” facilities.

Based on the available information, the total amount of money raised from compliance fee payments was roughly \$1.8 million for 2023, up from \$72,250 in 2022. The increase in the compliance fees, compared to 2022, is somewhat difficult to interpret as the REC market did not appear to be undersupplied. Electricity suppliers retired 263,919 SRECs in 2022, compared to 278,200 SRECs retired in 2023. The average SREC price was roughly \$415 in 2023, below the compliance fee of \$500 per SREC shortfall. The total

compliance fee payments submitted in various reporting years are provided in the following table.

### Compliance Fee Payments

	Total
2015	\$19,910,000
2016	\$15,230,000
2017	\$26,571,010
2018	\$18,744,020
2019	\$12,095,800
2020	\$8,153,950
2021	\$5,687,750
2022	\$72,250
2023	\$1,802,000

Based on the following table, non-solar Tier I and wind sources accounted for about 25% and 52%, respectively, of Tier I and solar RECs retired for compliance purposes. Methane from landfill gas and wastewater treatment accounted for 11.3% of the Tier I and solar RECs. Eligible wood waste resources accounted for about 2.5% of the Tier I and solar RECs. Solar energy resources able to meet the solar carve-out amounted to roughly 7.3% of Tier I and solar RECs. Finally, there was also roughly 2% (waste heat) of the Tier I and solar RECs attributable to facilities using wastewater as a heat source or heat sink. Tier II is no longer required as of the 2020 compliance year.

The breakdown of the number of RECs submitted in 2023 by fuel type is provided in the following table.

### Renewable Energy Credits Submitted for 2023 Compliance

	No. of RECs	Share of Tier
<b>Tier I Resource</b>		
Methane from landfill gas / wastewater	429,652	11.3%
Wind	1,974,566	51.9%
Waste heat	75,919	2.0%
Wood waste	93,618	2.5%
Non-Solar Tier I (out-of-state solar)	951,577	25.0%
<b>Solar Carve-Out</b>	278,200	7.3%
<b>Total Tier I and Solar Carve-Out</b>	<b>3,803,532</b>	<b>100.0%</b>

Suppliers submitted RECs generated from 2019 through 2023. About 27.4% of the RECs used for RPS compliance were generated in 2021, while roughly 47.2% of the RECs were generated in 2022, with 25.3% generated in 2023. Section 2904.5 of the RPS Rules indicates that RECs shall be valid for a 3-year period from the date of generation, beginning January 1, 2006, except where precluded by statute. Pursuant to the CleanEnergy Act, newly created SRECs are now valid for a 5-year period from the date of generation. The ability to apply RECs created in prior years means that the current RPS requirement does not truly reflect the amount of renewable energy applicable to the compliance year.

Electricity suppliers provided the REC prices for all of their renewable sources in 2023. The weighted average of the reported REC prices for 2019 through 2023, by fuel type, is provided in the following table.



## Average Price of Reported Compliance RECs

	2019	2020	2021	2022	2023
<b>Tier I Resource</b>					
Methane from landfill gas / wastewater	\$2.68	\$2.89	\$6.57	\$4.88	\$14.71
Wind	\$2.89	\$2.78	\$6.13	\$7.86	\$13.70
Waste heat	\$2.93	\$1.27	\$9.23	\$8.83	\$17.99
Wood waste	\$2.99	\$3.05	\$3.46	\$5.01	\$17.00
Non-solar Tier 1 (out-of-state solar)	\$2.86	\$2.84	\$7.16	\$7.81	\$15.72
<b>Solar Carve-Out</b>	<b>\$402.65</b>	<b>\$388.11</b>	<b>\$430.94</b>	<b>\$403.67</b>	<b>\$415.35</b>

Note: The Tier I compliance fee is \$50 per REC shortfall.

As seen in the Table, non-solar REC prices have been relatively stable in recent years, but generally increased sharply in 2021 and again in 2023. SREC prices for the District have generally remained elevated since 2016 as the impact of the legislative changes have made the District's SREC prices the highest in the Mid-Atlantic states.

Taken together, the estimated total cost of compliance — including the cost of RECs and compliance fees — amounted to nearly \$169 million for the 2023 RPS compliance year, up from \$129.2 million for the 2022 RPS compliance year. The increase in the RPS requirements over time will continue to place upward pressure on the cost of RPS compliance. The grandfather provision for the solar compliance fee contained in the RPS Expansion Act previously helped to mitigate cost increases. However, that provision expired as of the 2021 compliance year. But more recently, the grandfather provision — forestalling an increase in the RPS solar requirement — contained in the Local Solar Act, effective March 10, 2023, will be in effect for 3 years. The following table provides a distribution of SRECs retired by state.

## Solar RECs Retired by State in the 2023 Compliance Year

State	SRECs Retired	Share of Total
District of Columbia	228,555	82.2%
Delaware	1,622	0.6%
Illinois	506	0.2%
Indiana	226	0.1%
Kentucky	162	0.1%
Maryland	24,620	8.8%
Michigan	48	0.0%
North Carolina	1,854	0.7%
New Jersey	41	0.0%
New York	555	0.2%
Ohio	1,261	0.5%
Pennsylvania	14,595	5.2%
Virginia	3,662	1.3%
Wisconsin	258	0.1%
West Virginia	235	0.1%
<b>Total</b>	<b>278,200</b>	<b>100.0%</b>



## IV — THE AVAILABILITY OF RENEWABLE RESOURCES

This section discusses the availability of Tier I renewable sources, as required in the REPS Act. The issue of available resources is affected by geographic restrictions in the RPS.

The REPS Act provides that a:

“Renewable energy credit” or “credit” means a credit representing one megawatt-hour of electricity consumed within the PJM Interconnection Region that is derived from a Tier I renewable source or a Tier II renewable source that is located:

1. In the PJM Interconnection region or in a state that is adjacent to the PJM Interconnection Region; or
2. Outside the area described in subparagraph (1) of this paragraph but in a control area that is adjacent to the PJM Interconnection region, if the electricity is delivered into the PJM Interconnection Region.

The REPS Act did not provide a definition for adjacent states or an adjacent control area. In its third report in 2005, the RPS Working Group was not able to reach a consensus on the definition of “adjacent” states and, thus, presented two different interpretations. Ultimately, the Commission adopted the broader definition of “adjacent” and determined that states “adjacent” to the PJM Interconnection Region should help lessen the cost that ratepayers will have to pay for the renewable portion of their fuel mix. In particular, the following states were deemed adjacent to PJM: Alabama, Arkansas, Georgia, Iowa, Mississippi, Missouri, New York, South Carolina, and

Wisconsin. Thus, from the outset, the District’s RPS program allowed a relatively broad geographic participation.

Subsequently, the *Fiscal Year 2011 Budget Support Act of 2010* amended the definition of a REC to read as follows:

“Renewable energy credit” or “REC” means a credit representing one megawatt-hour of energy produced by a tier one or tier two renewable source located within the PJM Interconnection region or within a state that is adjacent to the PJM Interconnection region.



SOLAR PANELS LINE THE ROOF OF AUDI FIELD (WARD 6)

The change in the definition of a REC made it easier for the Commission to approve renewable energy systems located in states adjacent to the PJM Interconnection Region. That is, the previous definition’s reference to “electricity consumed within the PJM Interconnection Region” suggested that at least the potential to deliver electricity was required in order for a renewable energy system to be approved for the District’s RPS program. As a result, prior to the change in the REC definition, the Commission denied several applications from solar generator systems located in New York.

In its decisions, the Commission generally indicated that the applicant did not provide sufficient information to demonstrate or document the amount of energy that can be delivered into the PJM Interconnection region for consumption. However, the new definition refers only to where the energy is produced, not consumed. As a result of the revised statutory REC definition, the Commission began approving solar generator RPS applications from states that are geographically adjacent to the PJM Interconnection region states such as New York which is adjacent to Pennsylvania and Wisconsin which is adjacent to Illinois in 2010; both Pennsylvania and Illinois are within the PJM Interconnection region. However, with the passage of the DGAA, out-of-state solar energy systems are now generally not eligible to be certified by the Commission for generation of SRECs for compliance with the solar RPS. However, pursuant to the clarification language included by the Council in the Fiscal Year 2015 Budget Support Act of 2014, out-of-state solar facilities may be certified for use in complying with the non-solar (“NSTI”) portion of the Tier I RPS requirement.

The CleanEnergy Act again amended the definition of a “renewable energy credit” and restricted the location of the energy produced from a renewable resource to the PJM Interconnection region. But the law also allowed renewable sources located within a state adjacent to the PJM Interconnection region and certified by the Commission as of the applicability date of the Act to continue to produce RECs until January 1, 2029.

The following table provides a measure of some of the renewable sources available in the PJM region for 2023. The following information provides a perspective on the renewable sources in the PJM Interconnection region. The amount of renewable sources in the PJM Interconnection region represents nearly 7% of the available resources. Wind power accounts

for the largest share among renewable sources, roughly 4%. Among other renewable sources, solar photovoltaics represent the second largest resource – around 1.4% – followed by hydroelectric power – at 1%. Solid waste resources accounted for about 0.5%, while methane/other biomass gas, biomass-related fuels, and waste heat are approximately 0.3%, 0.2%, and 0.1% percent, respectively.

### PJM System Fuel Mix (2023)

Fuel	Share
Coal	14.9%
Nuclear	33.6%
Natural gas	44.2%
Oil	0.3%
Hydroelectric	1.0%
Other Renewable	6.0%
Captured methane gas / Other biomass gas	0.3%
Geothermal	0.0%
Solar PV	1.4%
Solid waste	0.5%
Waste heat	0.1%
Wind	3.6%
Wood, other biomass	0.2%
<b>Total Renewable Resources</b>	<b>6.9%</b>
<b>Total</b>	<b>100.0%</b>

Source: PJM-EIS GATS

Through the Reliable Energy Trust Fund, DOEE previously administered the Renewable Energy Demonstration Project (“REDP”), approved by the Commission in **Order No. 12778** (released July 9, 2003). The objective of the REDP was to increase the awareness and use of renewable energy grid-connected technologies by District ratepayers. Through the REDP, DOEE awarded grants to help finance renewable

energy projects in the District. The CAEA replaced the REDP with the Renewable Energy Incentive Program (“REIP”).

Subsequently, the RPS Expansion Act established a Solar for All Program to increase the access of seniors, small local businesses, nonprofits, and low-income households in the District to the benefits of solar power. This program is intended to reduce, by at

least 50%, the electric bills of at least 100,000 of the District's low-income households with high energy burdens by December 31, 2032. The program is funded annually from the Renewable Energy Development Fund which receives the annual RPS compliance fee payments.

As of year-end 2023, there were 17,516 renewable generators eligible for the District’s RPS program. All

### Number of Renewable Generators Certified for the District’s RPS Program by Fuel Type and Location (2023)

	Methane from landfill or wastewater treatment	Solar PV	Solar PV (NSTI)	Solar Thermal	Wastewater heat source or sink	Wind	Biomass	Total
Alabama							1	1
District of Columbia	1	13,424		109	8			13,542
Delaware	2	147		1				150
Georgia	4		42					46
Iowa	1		1			19		21
Illinois	22	7				16		45
Indiana	15	41	2			14		72
Kentucky	6	55	2	1				64
Maryland		1,639	5	10				1,654
Michigan	3	6						9
Missouri	1		14			6		21
North Carolina	1	78	61	78				218
New Jersey		8						8
New York		28		1				29
Ohio	2	126	3	4		4		139
Pennsylvania	8	907	2	16		6		939
South Carolina	6		11					17
Virginia	14	365	1	118				498
Wisconsin		11						11
West Virginia		23		5		4		32
<b>Total</b>	<b>86</b>	<b>16,865</b>	<b>144</b>	<b>343</b>	<b>8</b>	<b>69</b>	<b>1</b>	<b>17,516</b>



of these generators use Tier I renewable sources (including biomass, methane from landfill gas or wastewater treatment, solar, wind, and wastewater used as a heat source or sink). Beginning in calendar year 2020, Tier II sources were no longer included in the RPS requirements. Since these renewable energy generators may be certified in other states that have an RPS program as well, the RECs associated with the generating capacity from these sources are not necessarily fully available to meet the District’s RPS requirement. The table above provides a breakdown of the renewable energy generators by fuel type and location.



The District has also made significant progress in certifying solar energy facilities for the RPS program. As of year-end 2023, 17,208 solar energy systems – including solar photovoltaic and solar thermal – are eligible to participate in the District’s RPS program to meet the solar RPS requirement. Within the District, there are currently 13,424 approved PV systems and 109 solar thermal systems. Outside of the District, there are six states with more than 100 eligible solar energy systems, including:

- **Maryland: 1,649**
- **Pennsylvania: 923**
- **Virginia: 483**
- **North Carolina: 156**
- **Delaware: 148**
- **Ohio: 130**

These six states account for roughly 95% of the non-DC solar energy systems approved for the District’s RPS program.

The following table depicts the resources potentially available for use in the District’s RPS program as of year-end 2023, as some of the resources are registered in multiple jurisdictions. In addition to the solar resources for the RPS carve-out, there are other Tier I renewable sources in the District that are associated with DC Water facilities. They include a combined heat and power generator using methane produced from the wastewater treatment process to power 14 MW of gas turbines, a heat recovery process rated at 35 MW and roughly 28 MW associated with a heat exchange system. The following table also includes 367 fully operational CREFs in the District, which account for a total of 45.5 MW.

### Renewable Energy Systems as of December 31, 2023

	Number	Capacity (MW)
Solar (DC only)	13,533	214.5
Solar (Outside DC)	3,675	53.9
<b>Total solar</b>	<b>17,208</b>	<b>268.4</b>
Other Tier I (DC only)	9	77.6
Other Tier I (Outside DC)	299	8,137.1
<b>Total other Tier 1</b>	<b>308</b>	<b>8,214.7</b>
<b>Total renewable energy</b>	<b>17,516</b>	<b>8,483.1</b>

Note: Tier II facilities were decertified as of January 1, 2020 (no longer required for RPS).

Solar energy systems can be found in all eight wards of the District. As of year-end 2023, the number of RPS-eligible solar energy systems has increased in all

wards. The table below shows where the systems certified for the District’s RPS program are located.

### Certified District Solar Energy Systems by Ward (2023)

	No. of systems	% of total systems	MW	% of total MW
Ward 1	1,180	8.7%	12.6	5.9%
Ward 2	512	3.8%	10.2	4.8%
Ward 3	1,273	9.4%	18.7	8.7%
Ward 4	2,734	20.2%	29.1	13.6%
Ward 5	2,335	17.3%	37.7	17.6%
Ward 6	1,610	11.9%	22.5	10.5%
Ward 7	2,473	18.3%	38.7	18.0%
Ward 8	1,416	10.5%	45.0	21.0%

The total capacity associated for all solar energy systems is approximately 268.4 MW, with about 214.5 MW located in the District as of year-end 2023, compared to 225.5 MW of total solar capacity as of year-end 2022. Moreover, the current solar systems’ capacity is greater than the 210.2 MW of estimated solar capacity necessary to meet the 3.0% RPS requirement in 2023.



The District’s solar REC prices remain the highest in the region, so holders of solar RECs have a significant financial incentive to sell them to suppliers who need to satisfy the solar RPS requirement in the District.

Specifically, the price of the District’s solar RECs is currently trading at around \$440 per REC.

It is worthwhile to note that about 15% of the total capacity available to supply RECs to the District’s RPS program are located in states adjacent to the PJM Interconnection region. Moreover, some states such as Illinois, Kentucky, and North Carolina only have a portion of the state in the PJM Interconnection region. As such, many renewable energy systems will no longer be able to contribute to the RPS compliance by electricity suppliers as of the beginning of 2029, adding to the upward pressure on the cost of compliance. Roughly 61% of the RECs retired for compliance in 2023 were obtained from facilities in states adjacent to the PJM region. The following table shows the capacity of all of the District’s certified renewable generators, by fuel type and location, as of year-end 2023.

## Capacity (MW) of Renewable Generators

### Certified for the District’s RPS Program by Fuel Type and Location — 2023

	Methane from landfill or wastewater treatment	Solar PV	Solar PV (NSTI)	Solar Thermal	Wastewater heat source or sink	Wind	Biomass	Total
Alabama							49.8	49.8
District of Columbia	14.4	209.4		5.2	63.2			292.1
Delaware	7.4	1.2		0.0				8.6
Georgia	27.1		159.1					186.3
Iowa	1.6		2.0			351.8		355.4
Illinois	113.9	0.5				2,055.9		2,170.3
Indiana	47.2	0.2	295.4			2,032.5		2,375.3
Kentucky	18.4	0.2	14.1	0.0				32.7
Maryland		34.2	0.1	0.0				34.3
Michigan	33.0	0.0						33.0
Missouri	5.6		61.2			451.0		517.8
North Carolina	5.0	1.7	576.8	0.2				583.7
New Jersey		0.2						0.2
New York		0.4		0.0				0.4
Ohio	8.0	1.2	4.2	0.0		537.1		550.5
Pennsylvania	72.2	10.8	0.8	0.0		371.0		454.9
South Carolina	30.8		104.8					135.6
Virginia	124.5	2.1	2.7	0.4				129.7
Wisconsin		0.1						0.1
West Virginia		0.1		0.0		572.1		572.3
<b>Total</b>	<b>509.2</b>	<b>262.5</b>	<b>1,221.2</b>	<b>5.9</b>	<b>63.2</b>	<b>6,371.4</b>	<b>49.8</b>	<b>8,483.1</b>

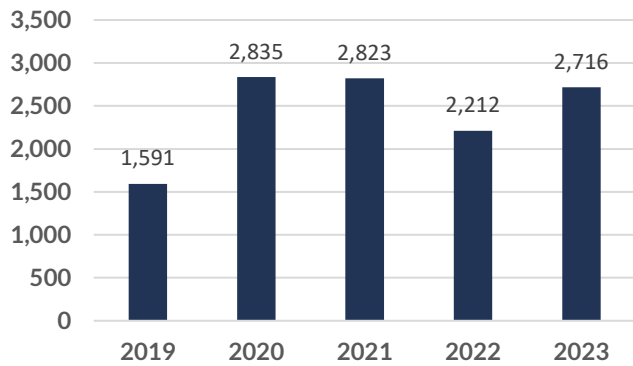
Note: Biomass includes wood/wood waste. In addition, the total solar capacity available to meet the solar requirement is the sum of the solar PV and solar thermal capacity of 268.4 MW. The non-solar Tier I (“NSTI”) represents the out-of-state solar that was allowed back into the RPS program but only able to meet the Tier I requirement and not the solar requirement.

In calendar year 2023, the Commission received 2,716 renewable generator applications in total – primarily involving the certification of solar generators for the RPS program. As of March 31, 2024, the Commission has received 968 applications in total. The Commission continues to approve solar energy RPS applications based on the existing laws and

regulations. The chart below shows how the number of applications has changed over the years.

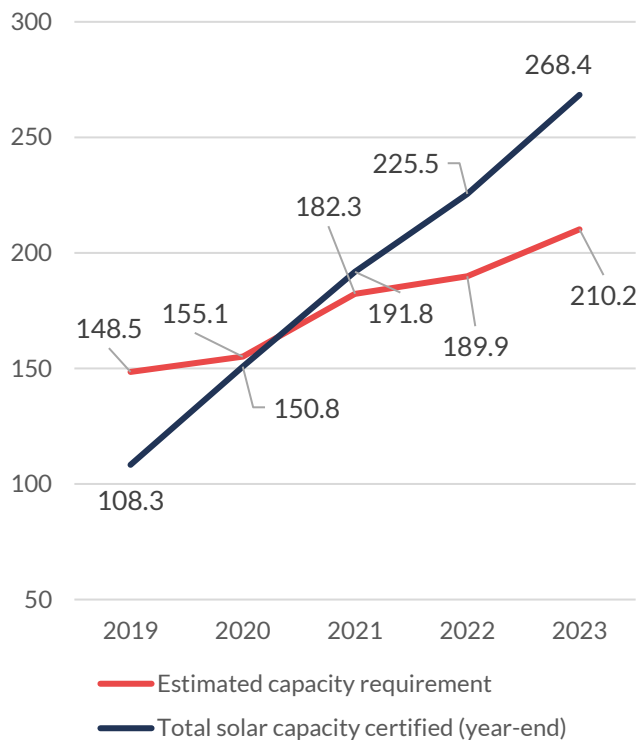


## Number of Renewable Portfolio Standard Applications Received



The chart below provides a comparison of the estimated MW of solar capacity needed to meet the increased solar RPS requirement under the CleanEnergy Act. As noted previously, the year-end solar capacity of 268.4 MW exceeded the estimated required solar carve-out capacity of 210.2 MW for 2023.

## Solar RPS Capacity (MW)



In terms of the availability of other renewable sources to meet the District’s RPS, as part of its merger commitments, Exelon committed to develop or assist in the development, by December 31, 2018, of 7 MW of solar generation in the District outside of the Blue Plains Wastewater Treatment Plant (“Blue Plains”). This has been completed and has been certified for the RPS program. In addition, Exelon committed that Pepco would support and expedite the interconnection for 5 MW of ground-mounted solar generation at Blue Plains that is developed, constructed and installed by a vendor selected by DC Water. The Commission has approved an application from DC Water for 4.4 MW of solar generation at Blue Plains. Exelon also committed to provide \$5 million of capital to creditworthy governmental entities at market rates for the development of renewable energy projects in the District of Columbia – the implementation of this commitment is still ongoing.

As a result of the AltaGas/Washington Gas Light merger, AltaGas committed to developing 10 MW of either electric grid energy storage or Tier I renewable sources in the District.

“A Value of Solar Study for the District of Columbia” was released in April 2017 by the Office of the People’s Counsel (“OPC”). OPC also published another study, entitled “Future of Solar PV in the District of Columbia,” in 2020. The latter report indicated that the District’s solar carve-out will likely prove to be challenging to meet. At the time, the District had not met its solar carve-out obligation due to several critical barriers:

- Distribution system hosting capacity constraints
- Limited space for solar development
- High upfront solar costs
- Customer financing barriers

- Significant share represented by soft costs in the overall cost of solar deployment
- Uncertainty of the SREC program

The report stated that though ground-mounted solar is typically less costly than rooftop solar on a per-megawatt basis, the availability of space for ground-mounted solar is limited given the District’s dense urban environment. Thus, the solar carve-out will likely be primarily met through more expensive rooftop and parking lot canopy installations. Achieving the solar carve-out objectives is technically feasible through the development of rooftop and parking lot solar systems but will require substantial ongoing investment and engagement by the District government and developers alike.

The report also provided the technical potential and economically feasible estimates of the solar capacity needed to meet the District’s carve-out requirements:

- An estimated 665 MW of solar capacity is needed to meet the 10% requirement by 2041 (an estimate made prior to the Local Solar Act that now requires 15% by 2041)
- After considering shading and other installation barriers, the District has only 1,300 MW of solar potential
- Meeting the solar carve-out will only be “economically feasible” with an SREC price above a certain minimum level
- The alternative compliance payment (“ACP”) is presently set at \$500 and will fall to \$400 in 2024 and to \$300 in 2029 (Local Solar Act amends these amounts)
- Questions whether the District will meet its solar targets in later years under a diminished ACP.

The Commission has not independently assessed the above outcomes and also notes that some of these estimates may be significantly contingent on long-term assumptions for electricity consumption and energy efficiency, as well as the level of projected electrification in the District.

The report also provides some policy recommendations:

- Monitor the SREC market and solar economics.
- Construct other financial incentives to address the form of compensation (e.g., assist with project financing, mitigate SREC price risk, or offset any decrease in the federal tax credit) and not just the level of compensation.
- Implement solar-supportive building codes.
- Monitor solar adoption across wards and conduct outreach.
- Continue supporting community solar through Solar for All.
- Leverage the Pepco interconnection process and regularly review the interconnection rules.
- Require Pepco to monitor, report, and address distribution system limitations that affect the adoption of distributed energy resources.
- Consider modifications to the RPS statute if the District continues to fall short of the carve-out requirements.

## V — RECENT ACTIVITY AND NEXT STEPS

Going forward, the Commission will continue to certify renewable energy generating facilities and update information on approved generators on the Commission’s website including, among other things, changes to the reporting requirements in the compliance reports from electricity suppliers. The Commission launched an online RPS application system on January 2, 2019, and the Commission is making forms and the rules available, to help facilitate the RPS certification and compliance process. In addition, the Commission will continue to maintain a list of approved renewable energy generating facilities on the Commission’s website.

Moreover, the Commission’s website also provides monthly updates on solar energy system certifications and SREC pricing. Additional program information will also be made available as deemed appropriate. The Commission will continue to post monthly the total amount of solar capacity from such systems for which interconnection requests have been submitted in the prior months.

In an effort to help the District meet its climate change commitments and renewable energy goals, **Order No. 19897** (released April 12, 2019), established a pilot program to procure renewable energy through long-term PPAs for electricity generated by solar or wind energy facilities located within the PJM Interconnection region with a target quantity of 5% of the SOS load. The Commission published a NOFR in the *D.C. Register* on April 2, 2021, to accommodate the integration of long-term renewable energy PPAs into the District’s SOS procurement portfolio consistent with **Order Nos. 19897** and **20327**.

A final contract was executed by Pepco and its counterparty with Pepco filing an executed agreement on

July 25, 2022. The Commission approved Pepco’s long-term PPA agreement with a counterparty through **Order No. 21413** on August 3, 2022. This PPA, which includes the sale of energy, RECs, and capacity, would supply approximately 154,000 MWhs per year of clean energy over the 15-year period, beginning in late 2024 (equivalent to 5% of SOS service).



Pepco notified the Commission on April 20, 2023, that the counterparty to the renewable PPA invoked its contractual right to terminate the agreement because it had failed to contract for the sale of 90% of the project. The Commission directed Pepco to issue a new RFP and expand the terms of the RFP to allow for bidding by existing, as well as new, renewable projects to expand the pool of potential bidders and allow Pepco to select the best option for District customers. In **Order No. 21918** (released October 26, 2023), the Commission directed Pepco, among other things, to add existing and expanding facilities to the types of facilities that can bid, include a pricing collar review, add offshore wind facilities to the types of facilities that can bid, lower the threshold of facilities that can bid to 5 MW, and include a termination payment.

In **Order No. 21977** (released April 1, 2024), Pepco was directed to file the RFP and the draft PPA as modified for the pilot program to procure renewable energy through a long-term PPA for electricity for a target quantity of 5% of the SOS load within 10 days



of the date of the Order. Pepco was also directed to issue the modified RFP and draft PPA 15 days following the filing date of the modified RFP and draft PPA unless the Commission directs otherwise within that period. Pepco will file a monthly update until a PPA is executed and filed with the Commission for approval.

The Commission published a NOFR in the *D.C. Register* on May 1, 2020, that eliminated the need for a CREF to directly connect to the distribution system. This facilitated the implementation of two VCREFs, using a BTM configuration for the system, that helps reduce the cost of a CREF by avoiding certain infrastructure upgrades while maintaining safety and reliability.

The Commission published a NOFR on August 14, 2020, allowing NEM systems for individual BTM generators to exceed 100% of the customer's historical usage and customer payment for excess generation. A NEM system can increase the generation threshold by 20% annually, starting in 2020, until the generation threshold reaches 200% in 2024.

In **Order No. 20740** (released May 13, 2021), the Commission amended the RPS Rules to prohibit Pepco from extending the District's distribution system through a line extension and or service connection solely for the purpose of accommodating non-District solar energy systems' participation in the District's SREC program. However, if Pepco reconfigures its system, based on the company's engineering assessment to address load or other distribution system needs, that connects non-District solar energy systems to the District's distribution system (i.e., District Feeder) that system would become eligible for participation in the SREC program.

A NOFR was issued on August 20, 2021, to foster overall CREF growth by partially subsidizing the distribution system upgrade costs related to CREF

interconnections. This rulemaking capped distribution system up-grade cost-sharing to an allocation at \$500,000 per year. Subject to availability of funds, individual projects were capped at \$25,000, or 50% of the upgrade costs.

In **Order No. 21134** (released March 24, 2022), the Commission amended the RPS Rules to require construction drawings to be submitted with the RPS application, to help confirm the orientation of a solar PV system, and to generally require all new renewable generating facilities, including BTM generators, to account for energy output using a revenue-grade generation meter or inverter-based generation measurement equipment. These rules became final with the publication of the NOFR in the *D.C. Register* on April 1, 2022.

During 2022, the Commission issued an RFP for community heat pump pilot project(s) to support the development of a large community heat pump system(s) to replace existing fossil fuel space conditioning systems. On March 27, 2023, a \$2.5 million award was made to Preservation for Affordable Housing ("POAH") for a community geothermal pilot project at Barry Farm Redevelopment in Ward 8, and a \$2.5 million award was made to E&G Group II, LLC for a community heat pump at the Meadow Green Courts in Ward 7.

The Commission issued a Notice on April 11, 2023, requesting comments on Pepco's April 4, 2023, petition that seeks approval of modifications to its NEM tariff to require prospective residential NEM customers seeking to inter-connect solar generators of 20 kW or smaller to pay a flat system upgrade fee of \$280 regardless of whether the inter-connecting customer would otherwise be charged a distribution system upgrade or interconnection facility cost. Pepco states that under its proposed changes to Rider-NEM, qualifying NEM customers would not be

responsible for any distribution system upgrades or interconnection facility costs that these customers would be required to pay under the current regulations adopted by the Commission.

On March 12, 2024, the Commission reissued an RFP to fund a Solar Aggregation and Advanced Inverter Pilot Project to be located in the District at site(s) to be identified by the Offeror. The Commission seeks proposals for aggregations of existing and/or new solar and DER projects that utilize IEEE 1547-2018 standard-compliant inverter systems and inverter settings profiles to automatically manage hosting capacity and communications. The Commission is interested in innovative ideas and technologies that will demonstrate the following outcomes:

- Maximization of solar hosting capacity
- Effectiveness of alternatives to the Pepco's requirement for proprietary cellular cabinets for communications between Pepco and DER systems using standardized communication protocol(s)
- Customer-specific benefits
- Distribution-level grid benefits

Although this is a pilot project, the expectation is that the DER aggregation will continue to operate after the conclusion of the pilot period; as such it should be designed with a continuity plan in place.

In the interest of enhancing transparency and fostering additional growth, the Commission required Pepco to stand up and maintain a public interconnection queue. This new online feature went live in late February 2022 and allows developers and customers to view information such as facility capacity, fuel type, and current status of the application.

The Commission will continue to monitor the interconnection process to ensure that applications for

the interconnection of renewable generating facilities with Pepco's distribution network in the District are made on a timely basis, as well as evaluating the cost of any system upgrades required of interconnection applicants. The Commission will continue to monitor the development of relevant D.C. Council legislation regarding RPS and goals for renewables in the District. As needed, the Commission will continue to adopt regulations or orders governing the implementation of the RPS.

Finally, on April 22, 2024, the U.S. Environmental Protection Agency announced that 60 selectees will receive a portion of the \$7 billion in grant awards through the Solar for All grant competition to deliver residential solar projects to over 900,000 households nationwide. The grant competition is funded through the Inflation Reduction Act, which created EPA's \$27 billion Greenhouse Gas Reduction Fund. The District of Columbia was one of the selectees and will receive \$62.45 million for the Solar for All program that will mobilize financing and private capital to catalyze investment that will increase the scale of deployment of solar, storage and enabling upgrades to benefit low-income residents. Delivering enabling upgrades such as energy efficiency retrofits, roof repair, and electrical upgrades will help unlock greater solar potential for rooftop solar systems for low-income homeowners, decrease energy burden for low-income homeowners and renters, increase resiliency, maximize solar potential, and increase opportunities for training and placement in good jobs in the renewable energy and building trades industries.



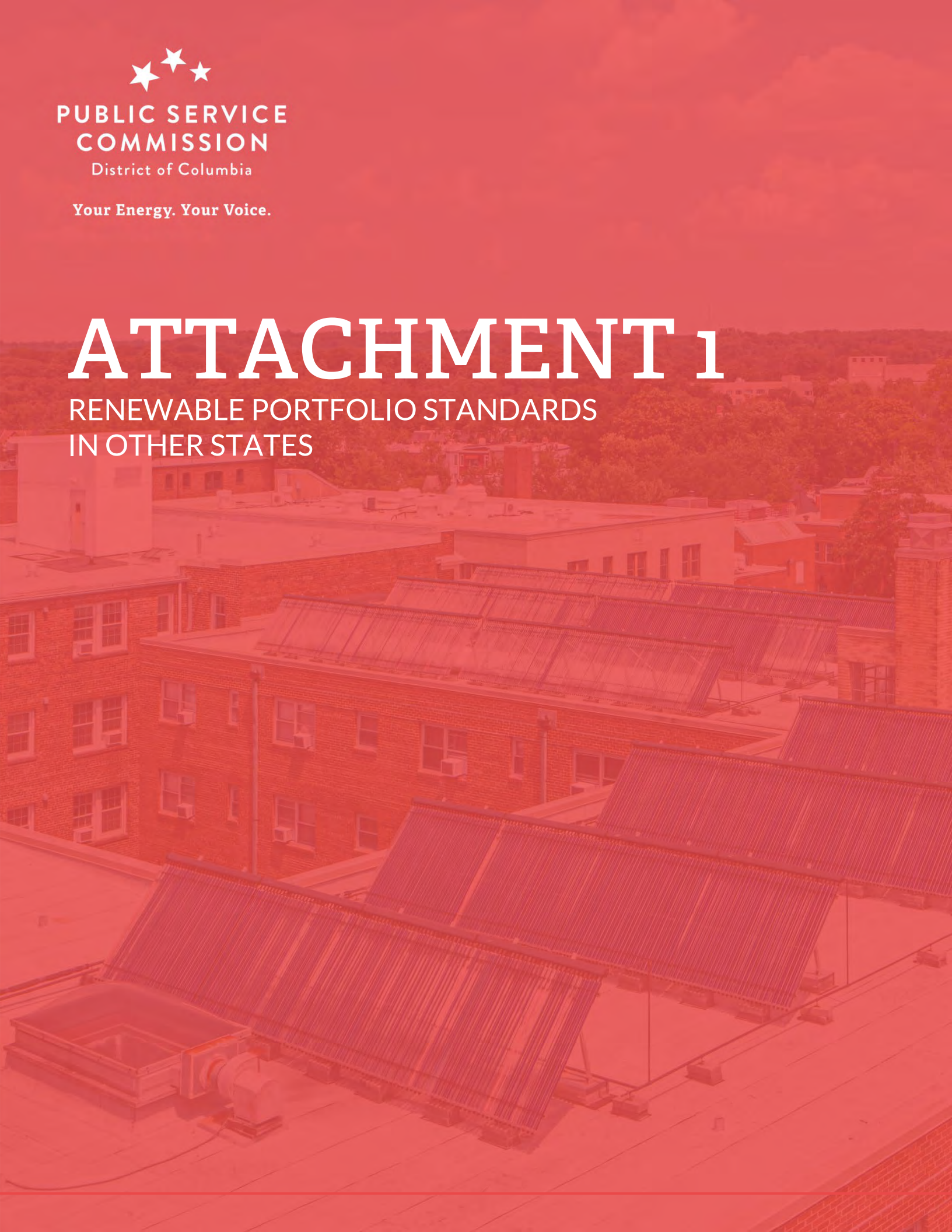
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COMMISSION**

District of Columbia

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# ATTACHMENT 1

RENEWABLE PORTFOLIO STANDARDS  
IN OTHER STATES





# RENEWABLE PORTFOLIO STANDARDS IN OTHER STATES

According to the Database of State Incentives for Renewable Energy (“DSIRE”), U.S. Energy Information Administration (“EIA”), and National Conference of State Legislatures (“NCSL”), 29 states and the District of Columbia have adopted RPS policies or mandates. In addition, eight states have renewable energy goals (see Figure 1). The 29 states include:

- Arizona
- California
- Colorado
- Connecticut
- Delaware
- Hawaii
- Illinois
- Iowa
- Maine
- Maryland
- Massachusetts
- Michigan
- Minnesota
- Missouri
- Nevada
- New Hampshire
- New Jersey
- New Mexico
- New York
- North Carolina
- Ohio
- Oregon
- Pennsylvania
- Rhode Island
- Texas
- Vermont
- Virginia

- Washington
- Wisconsin

States have also been implementing clean energy targets, which require electricity providers to eliminate greenhouse gas emissions, without a focus on the source of the energy generation. Such efforts complement the RPS requirements by focusing on items such as energy efficiency, demand response resources, transmission, and emissions reporting – to reduce, remove, prevent, or offset any carbon emissions.

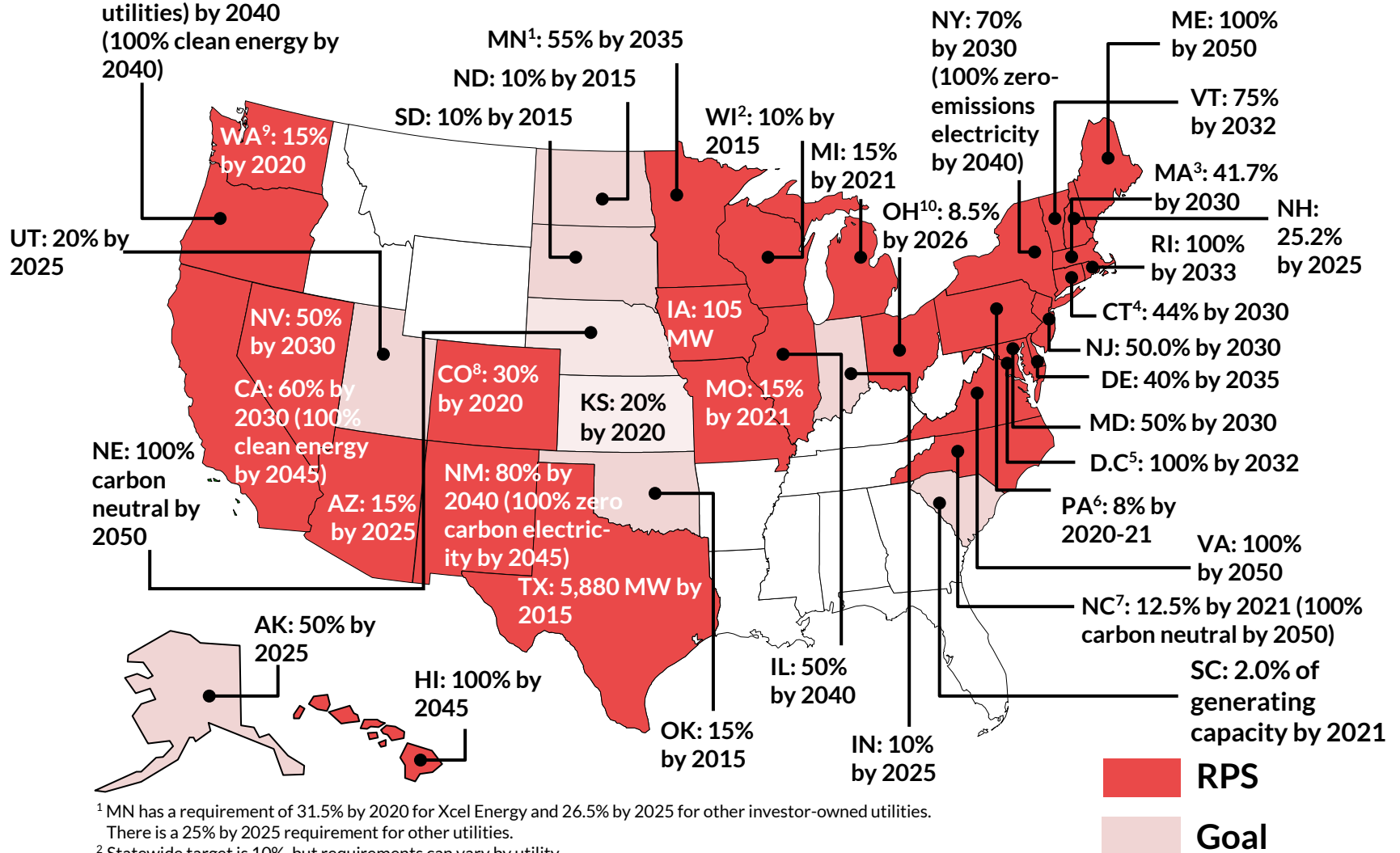
In addition, nine states – Alaska, Indiana, Kansas, Nebraska, North Dakota, Oklahoma, South Carolina, South Dakota, and Utah – have non-binding renewable/clean energy goals.

The following compares the District’s RPS requirement to nearby states:

- **District of Columbia: 100% by 2032 (the solar energy requirement continues to increase to 15% by 2041)**
- **Delaware: 40% by 2035**
- **Maryland: 50% by 2030**
- **New Jersey: 50% by 2030**
- **North Carolina: 12.5% by 2021**
- **Pennsylvania: 8% by 2020-21**
- **Virginia: 100% by 2050**

# Figure 1: Renewable Portfolio Standards

(Percentage of Sales, except for Iowa and Texas)



<sup>1</sup> MN has a requirement of 31.5% by 2020 for Xcel Energy and 26.5% by 2025 for other investor-owned utilities. There is a 25% by 2025 requirement for other utilities.  
<sup>2</sup> Statewide target is 10%, but requirements can vary by utility.  
<sup>3</sup> 35% Class I (New Resources) plus additional 1% each year after 2030, 6.7% Class II (Existing Resources) by 2020.  
<sup>4</sup> The 44% refers to Class I and II resources.  
<sup>5</sup> Solar requirement increases to 5.0% by 2032 and 15.0% by 2041.  
<sup>6</sup> The 8% is for Tier I resources (including solar PV). PA also has a 10% requirement for Tier II resources that includes some nonrenewable resources.  
<sup>7</sup> The 12.5% is for investor-owned utilities. Co-ops and municipals must meet 10% by 2018.  
<sup>8</sup> The 30% is for investor-owned utilities. Co-ops serving 100,000 or more meters must meet 20% by 2020. Co-ops serving less than 100,000 meters and municipals must meet 10% by 2020. 100% clean energy by 2050 for utilities serving 500,000 or more customers  
<sup>9</sup> There is a 100% greenhouse gas neutral requirement by 2030 and a 100% carbon-free requirement by 2045.  
<sup>10</sup> OH reduced its RPS requirement from 12.5% to 8.5% by 2026, including reductions in annual incremental targets.  
 Sources: Database of State Incentives for Renewable Energy, Lawrence Berkeley National Laboratory, and National Conference of State Legislatures.



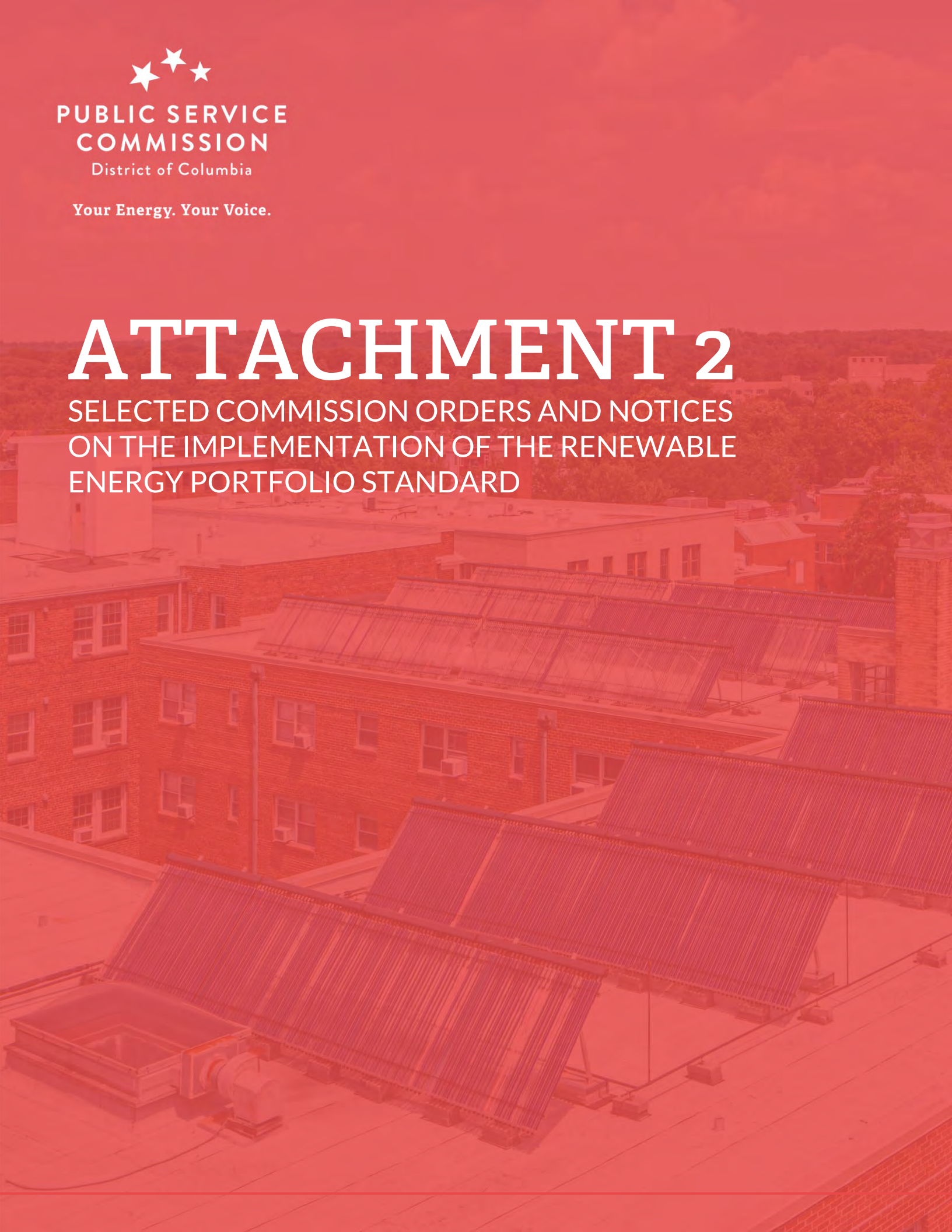
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# ATTACHMENT 2

SELECTED COMMISSION ORDERS AND NOTICES  
ON THE IMPLEMENTATION OF THE RENEWABLE  
ENERGY PORTFOLIO STANDARD





## SELECTED COMMISSION ORDERS AND NOTICES ON THE IMPLEMENTATION OF THE RENEWABLE ENERGY PORTFOLIO STANDARD

**Order No. 13566 (April 29, 2005):** Invited interested parties to submit their views on 12 RPS-related issues.

**Order No. 13766 (September 23, 2005):** Addressed various issues based on the comments filed in response to **Order No. 13566**. With respect to the process for implementing the Act, the Commission directed interested parties to form a RPS Working Group to examine in more detail certain issues related to the implementation of the REPS Act, and to develop a timeline and recommendations with respect to a two-phased approach to resolving those issues. The Commission also indicated that the PJM-EIS GATS would be used in the implementation of the Act.

**Order No. 13795 (October 24, 2005):** Adopted the RPS Working Group's proposed procedural schedule recommended in the RPS Working Group Report (submitted October 11, 2005), including a timeline and designation of items, for addressing Phase I and Phase II issues — raised in **Order No. 13766**.

**Order No. 13804 (November 10, 2005):** Accepted in part and rejected in part comments filed by the parties in the RPS Working Group Report submitted on October 25, 2005. The Commission generally approved the method for certifying individual generators. The Commission directed the RPS Working Group to develop a list of comparable state certificates that would meet the District's RPS. The resulting list would help identify which facilities are in

compliance with the District's RPS requirements. However, the Commission rejected the accrual of retroactive RECs created before January 1, 2006. The Commission noted that the intent of the REPS Act is to encourage the production and siting of renewable resources going forward, rather than looking back, which reduces the need for the use of retroactive RECs.

**Order No. 13840 (December 28, 2005):** Approved, in part, various rules addressing Phase I issues recommended in the RPS Working Group's third report (submitted November 23, 2005). Attachment A of the Order contains the interim rules that the Commission adopted. The interim rules, in part, established definitions for various terms consistent with the REPS Act, compliance requirements for electricity suppliers, generator eligibility, rules regarding the creation and tracking of RECs, and rules concerning the recovery of fees and costs.

**Order No. 13860 (January 26, 2006):** Generally accepted the recommendations presented in the RPS Working Group's report (submitted December 22, 2005) on comparable state certificates and related issues. The Commission pointed out that the use of the Tier I and Tier II eligibility matrices promotes a streamlined and simple process for the certification of renewable resources located outside of the District, consistent with **Order No. 13766**.

**Order No. 13899 (March 27, 2006):** Responded to Applications and/or Motions for Reconsideration and Clarification of **Order No. 13840** filed by the Meadwestvaco Corporation, the Potomac Electric Power Company on behalf of the RPS Working Group, and jointly by Pepco Energy Services, Mirant Corporation, Washington Gas Energy Services, Inc., District of Columbia Energy Office, and Constellation. This Order, in part, amended the interim rules to indicate that retroactively created RECs must be

tracked through GATS. In addition, with respect to the information to be included in the annual compliance report, the Commission amended the interim rules to indicate that suppliers purchasing RECs solely via bundled products are exempt from including the total price paid for Tier I, Tier II, and Solar Energy Credits in their report.

**Order No. 14005 (July 24, 2006):** Accepted in part and rejected in part, recommendations contained in the RPS Working Group report addressing Phase II issues, submitted on March 24, 2006. This Order further accepted in part and rejected in part recommendations contained in supplemental comments filed by the Office of the People’s Counsel and in reply comments filed jointly by the Potomac Electric Power Company, Pepco Energy Services, Inc., and the District of Columbia Energy Office.

**Order No. 14085 (October 13, 2006):** Denied the Application for Reconsideration of Order No. 14005 filed by the MD-DC-VA Solar Energy Industries Association.

**Order No. 14114 (November 13, 2006):** Accepted in part and rejected in part, recommendations contained in the RPS Working Group report (September 15, 2006) regarding: (1) the use of engineering estimates to measure the output of small solar installations; (2) the District of Columbia’s adoption of BTM rules and regulations used in other Mid-Atlantic States; and (3) the RPS Working Group’s response to a hypothetical question involving renewable energy credit creation that was set forth in **Order No. 13766**.

**Order No. 14225 (March 2, 2007):** Accepted in part and rejected in part recommendations contained in the RPS Working Group report, addressing issues identified in **Order No. 14114**, submitted on December 13, 2006. In particular, the Commission amended

the interim rules to address certain issues regarding BTM generation.

**Order No. 14697 (January 10, 2008):** Adopted Chapter 29 of Title 15 District of Columbia Municipal Regulations (“Final Rules”). The Final Rules became effective upon the publication of the Notice of Final Rule-making in the *D.C. Register* on January 18, 2008.

**Order No. 14782 (April 10, 2008):** Adopted the Electricity Supplier 2007 Compliance Report Form and associated filing instructions for the District’s RPS Program. Electricity suppliers were directed to use the form for the 2007 Compliance Reports due May 1, 2008.

**Order No. 14798 (April 29, 2008):** Directed on-site or BTM generators, certified by the Commission as eligible renewable generating facilities and required to file on-site or BTM generation reports under the Commission’s rules, to file their reports with the Commission.

**Order No. 14809 (May 12, 2008):** Directed the RPS Working Group to file, consistent with the Commission’s rules, an annual update to the Tier I and Tier II eligibility matrices.

**Order No. 14885 (August 11, 2008):** Directed certain electricity suppliers to file evidence with the Commission that each established Generation Attribute Tracking System accounts and that the renewable energy credits reported in their compliance reports have been properly retired.

**Order No. 15077 (October 1, 2008):** Denied Washington Gas Energy Services, Inc.’s request for a waiver of the 2007 compliance fee for solar renewable energy credits and directed the Company to file proof of payment of the 2007 compliance fee for solar renewable energy credits.

**Order No. 15192 (February 18, 2009):** Directed the RPS Working Group to review the available information regarding certain states and, if the RPS Working Group identifies any Tier I or Tier II renewable energy resources whose certification requirements may be comparable to the District's RPS program, to file an annual update. In identifying new resources, the Order noted that the RPS Working Group should be mindful of the fact that the Clean and Affordable Energy Act of 2008 has added additional certification requirements for certain solar energy facilities.

**Order No. 15233 (April 7, 2009):** Adopted amendments to the RPS rules, an Affidavit of Environmental Compliance, and a revised Electricity Supplier Annual Compliance Report Form.

**Order No. 15561 (September 28, 2009):** Adopted amendments to RPS rules consistent with the applicable sections of the Clean and Affordable Energy Act of 2008. In particular, the Commission added a new subsection detailing the requirements for meeting the solar portion of the RPS requirement. In addition, the amendments raised the compliance fees for tier one and SREC shortfalls as well as change the definition of solar energy. The amendments also required additional documentation for applications for certification of solar thermal systems as District of Columbia renewable energy facilities.

**Order No. 15581 (October 21, 2009):** Denied Sol System's request to increase the derate factor used in estimating the output of a solar system. The derate factor accounts for the inefficiencies inherent in converting direct current ("DC") produced by a PV system to alternating current ("AC") used in homes or businesses. Specifically, the derate factor accounts for the inefficiency of the solar panels and inverter, as well as losses due to connections and wiring, among other factors. Pursuant to the Commission's rules, solar RECs are created and tracked through the PJM-

EIS GATS. PJM-EIS GATS applies a certain default derate factor utilizing PVWATTS, a performance calculator for PV systems developed by the National Renewable Energy Laboratory, which estimates the AC electricity produced by these PV systems. These estimates in turn are used to determine how many solar RECs individual photovoltaic systems generate. Sol Systems offered no technical information of merit in support of its request.

**Notice Regarding the Submission of Electricity Supplier Annual Compliance Report for the District of Columbia's Renewable Energy Portfolio Standard (March 23, 2010):** Reminded electricity suppliers that they may not use the incineration of solid waste to meet more than 20% of the standard for tier two renewable sources. In addition, starting January 1, 2013, suppliers are prohibited from using RECs derived from solid waste incineration to meet any part of the Tier II standard.

**Notice Regarding the Submission of Electricity Supplier Annual Compliance Report for the District of Columbia's Renewable Energy Portfolio Standard (March 18, 2011):** Reminded electricity suppliers that they are obligated to submit their annual renewable energy portfolio standard compliance reports for calendar year 2010 by May 2, 2011, and that electricity suppliers shall meet the solar requirement by first exhausting all opportunity to purchase D.C. SRECs before purchasing non-D.C. SRECs.

**Order No. 16528 (September 9, 2011):** Denied all applications for certification of solar energy facilities that were not located within the District, nor in locations served by a distribution feeder serving the District, pending before the Commission on August 1, 2011.

**Order No. 16529 (September 9, 2011):** Decertified all solar energy facilities not located within the District or in locations served by a distribution feeder



serving the District, and certified by the Commission between February 1 and August 1, 2011, as well as any solar facilities with a capacity larger than 5 MW regardless of the date certified. In addition, the clarified that any solar renewable energy credits generated by solar energy facilities decertified pursuant to this Order cannot be used to satisfy the solar portion of the District's RPS program for the 2011 compliance year nor any future compliance year.

**Order No. 16680 (January 12, 2012):** Denied SolTherm Energy, LLC's applications for recertification of 15 facilities, arguing that the applicability section of the permanent version of the legislation, the DGAA, exempts contracts for the purchase and sale of SRECs from the decertification provision of the Act. In its Order, the Commission indicated that rather than grandfathering-in SRECs and/or SREC contracts, the DGAA effectively voided them after January 31, 2011. The Order mentions that the Council clarified the Act in both its emergency and permanent versions and expressly required the Commission to decertify any non-compliant facility certified between February 1, 2011 and the effective date of the Emergency Act, August 1, 2011. The Commission determined that SolTherm's interpretation of the Act would frustrate the Council's intent to render SRECs from non-D.C. facilities unmarketable — as SolTherm's facilities are located outside the District and are not in locations served by a distribution feeder serving the District. Therefore, the Commission concluded that it is statutorily precluded from recertifying them. In addition, SRECs extinguished by operation of law when the Commission decertified the SolTherm facilities cannot be rekindled under a provision clearly intended to apply only to energy supply contracts.

**Order No. 16738 (March 15, 2012):** Adopted the amended rules and revised annual compliance report form published in the January 13, 2012, NOPR. The

proposed amendments to the RPS rules include, among other things, changes pursuant to the Distributed Generation Amendment Act of 2011.

**Order No. 16787 (May 25, 2012):** Directed three alternative electricity suppliers — Consolidated Edison Solutions, Liberty Power, and Noble Americas Energy Solutions — to comply with statutory limit on the use of municipal solid waste to meet the RPS requirement for Tier II resources, based on their 2010 compliance reports. The three suppliers were directed to either show cause why this notification of non-compliance is unwarranted or submit their respective payments for non-compliance payable to the Renewable Energy Development Fund.

**Order No. 17062 (February 1, 2013):** Adopted the RPS Working Group's proposed Tier I and Tier II eligibility matrices for 2011 as modified.

**Order No. 17239 (September 6, 2013):** Denied the Virginia Living Museum's revised application to expand its existing solar generating system as the second array is functionally separate from the existing array — being separately metered and located on two separate buildings, sharing no parts or components, and do not interact in any way. Given the information and argument before the Commission, there was no basis upon which to conclude that the second array is anything other than a new facility that is disallowed under the DGAA, as it is not in a location served by a distribution feeder serving the District of Columbia.

**Order No. 17349 (January 13, 2014):** Adopted the RPS Working Group's proposed Tier I and Tier II eligibility matrices submitted for 2013. The proposed eligibility matrices do not include solar energy or solid waste among the eligible resources for the streamlined certification process. In addition, the RPS Working Group accounted for all nine of the adjacent PJM states.

**Order No. 17350 (January 13, 2014):** Decertified two municipal solid waste facilities that were previously approved. After December 31, 2012, the incineration of solid waste is no longer eligible to generate RECs to be used to satisfy the Tier II portion of the District’s renewable energy portfolio standard. The Commission indicated that RECs from these two facilities cannot be used to satisfy the Tier II portion of the RPS requirement for the 2013 compliance year, nor any future compliance year.

**Order No. 17351 (January 10, 2014):** Denied the Silicon Ranch Corporation’s application for certification of a solar energy facility, with a capacity of least 30 MW, located in Georgia. In its application, the Silicon Ranch Corporation indicated that it was seeking certification of the solar energy facility as a Tier I out-of-state resource, and it is not seeking certification to obtain SRECs. Based on its review of the Commission’s RPS rules, the applicant asserted that the District’s solar carve out does not prevent outside of the District solar facilities like its own from being certified as a “generic” Tier I resource. By statute, Tier I renewable sources are clearly defined to mean one or more of the following types of energy sources: solar, wind, qualifying biomass, methane from the decomposition of organic materials, geothermal, ocean, and fuel cells producing electricity from qualifying biomass or methane. The Commission determined that since the statutory definition of a Tier I renewable source is based on the source used to produce energy, a Tier I renewable source cannot, therefore, be “generic.” In addition, the applicant did not provide any supporting legal authority for the creation of a “generic” Tier I source. Nor does the statute authorize the Commission to certify a solar facility outside of the District which is not in a location served by a distribution feeder serving the District of Columbia and which is larger than 5 MW in capacity.

**Order No. 17379 (February 12, 2014):** Directed Pepco to incorporate the changes set out in this Order in its future Annual Interconnection Reports.

**Order No. 17393 (February 20, 2014):** Denied the application for certification of the Welch/Molloy Residence’s Solar Energy Facility as a Renewable Energy Standards Generating Facility because the solar energy facility is not located within the District or in a location served by a distribution feeder serving the District, pursuant to the DGAA.

**Order No. 17673 (October 24, 2014):** Adopted a modified version of the NOPR published in the *D.C. Register* on June 27, 2014. The filing deadline for RPS compliance reports and fees in Sections 2901.7 and 2901.9 of the RPS Rules was moved from May 1 to April 1.

**Order No. 17794 (February 4, 2015):** Addressed comments from interested persons and described changes to the NOPR published on September 12, 2014, amending Chapter 9, Rules and Regulations Governing NEM, to implement those provisions of the Community Renewable Energy Amendment Act of 2013 (“CREA”) regarding the community net metering program. A revised NOPR with the incorporated changes was published in the *D.C. Register* on January 30, 2015, for comment by interested persons.

**Order No. 17862 (April 24, 2015):** Adopted revised rules and regulations governing NEM to implement those provisions of the CREA which establish the community net metering program.

**Order No. 17863 (April 24, 2015):** Adopted amendments to Chapter 41, “District of Columbia Standard Offer Service [‘SOS’] Rules,” which were made to implement those provisions of the CREA that affect SOS.

**Order No. 18050 (December 11, 2015):** Approved Pepco’s CREF Documents filed, pursuant to Chapter 9 of Title 15 of the District of Columbia Municipal Regulations (“DCMR”) as well as the “Procedural Manual for Implementation and Administration of Community Renewable Energy Facilities” (“CREF Procedural Manual”). The Commission directed Pepco to amend the CREF Documents and the proposed CREF Procedural Manual in accordance with the directives of this Order.

**Order No. 18135 (March 3, 2016):** Granted the motion of Pepco to reconsider the Commission’s decision in **Order No. 18050**. Pepco was directed to modify the CREF Contract consistent with this Order.

**Order No. 18705 (February 24, 2017):** Approved Pepco’s Community Net Metering Rider (“Rider CNM”), Pepco’s CREF Contract and conditionally approved Pepco’s proposed revised CREF Procedural Manual. The Commission directed Pepco to amend its proposed revised CREF Procedural Manual in accordance with the directives of this Order.

**Order No. 18749 (April 13, 2017):** Adopted amendments to Chapter 29, “Renewable Energy Portfolio Standard” (“REPS”), of Title 15 of the DCMR, pursuant to D.C. Code § 34-802 and in accordance with D.C. Code § 2-505, that were made to implement those provisions of the Renewable Portfolio Standard Expansion Amendment Act of 2016 that affect the District of Columbia’s REPS.

**Order No. 19859 (March 13, 2019):** Adopted a revised electricity supplier compliance report form for 2018 and directed suppliers to submit their compliance fees for the 2018 compliance year to the District Department of Energy and the Environment between October 1 and November 1, 2019.

**Order No. 20334 (April 22, 2020):** Adopted the amendment to the NEM rules, eliminating the requirement that a CREF be directly connected with the electric company’s distribution system in the District of Columbia.

**Order No. 20387 (August 6, 2020):** Adopted the amendments to the NEM rules, allowing NEM systems for individual BTM generators to go beyond 100% of the customer’s historical usage and customer payment for excess generation. A NEM system can increase the generation threshold by 20% annually, starting in 2020 until the generation threshold reaches 200% in 2024.

**Order No. 20740 (May 13, 2021):** Amended the RPS Rules to prohibit Pepco from extending the District’s distribution system through a line extension and or service connection solely for the purpose of accommodating non-District solar energy systems’ participation in the District’s SREC program. However, if Pepco reconfigures its system, based on the company’s engineering assessment to address load or other distribution system needs, that connects non-District solar energy systems to the District’s distribution system (i.e., District Feeder) that system would become eligible for participation in the SREC program.

**Order No. 21134 (March 24, 2022):** Amended the RPS Rules to require construction drawings to be submitted with the RPS application, to help confirm the orientation of a solar PV system, and to generally require all new renewable generating facilities, including BTM generators, to account for energy output through the use of a revenue-grade generation meter or inverter-based generation measurement equipment.