

Solar Energy Access for Low-Moderate Income Residents in Multi-Unit Buildings in the District of Columbia



GOVERNMENT OF THE
DISTRICT OF COLUMBIA
MURIEL BOWSER, MAYOR

DC SOLAR MARKET MANDATES AND GOALS

Renewable Energy Portfolio Standard (RPS):

- 100% of electricity MUST come from renewable energy resources by 2032
- 15% of electricity MUST come from locally generated solar by 2041

Sustainable DC Plan:

- 100% of residents live within walking distance of facility offering clean back up power to serve critical needs during power outage by 2032

Clean Energy DC Plan:

- 60% GHG reduction by 2030

Carbon Free DC Strategy:

- Carbon Neutral by 2045



DOEE SOLAR FOR ALL (SFA) PROGRAM

- Established by the Renewable Portfolio Standard (RPS) Expansion Amendment Act of 2016;
- Increases solar energy generated in the District and provides benefits to low-moderate income households;
- Includes both rooftop solar and Community Renewable Energy Facility (CREF) development for community solar;



- Goal to serve 100,000 low-income households & reduce electric bills by \$500 per year;
- Funded by RPS alternative compliance payments;

Oxon Run Community Renewable Energy Facility

COMMUNITY SOLAR



- CREF hosts receives lease payments for the use of their property/roof;
- Helps to reduce energy burden of LMI residents in the community;
- Helps the District meet its renewable energy goals per the Clean Energy DC 2.0 Plan

St. Luke's Baptist Church CREF, 55 kW

COMMUNITY SOLAR



Downtown DC Office Building - 799 9th Street NW, 55kW



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COMMUNITY SOLAR



Children's National Research Center Parking Lot, 1.1 MW

Oxon Run Park, 2.65 MW



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NET ENERGY METERING (NEM) SYSTEMS AND INDIRECT BENEFITS



- Local church passes the savings from the solar system on to congregants in need in the form of transportation and food subsidies
- Low-income seniors within the community are prioritized

Dupont Park Seventh Day Adventist Church, 45kW



NET ENERGY METERING (NEM) SYSTEMS AND INDIRECT BENEFITS



- Multi-unit, multi-building affordable housing community managed by Enterprise Community Partners (ECP)
- ECP passes the savings on to residents as follows:
 - Career readiness trainings
 - Financial Education
 - Food vouchers
 - Increased security
 - Community engagement activities

Oxford Manor, 2607 Bowen Road SE, 414 kW DC

NET ENERGY METERING (NEM) SYSTEMS AND INDIRECT BENEFITS



- University Auditorium and other campus buildings
- GWU gives savings to community nonprofit organizations to provide utility and rental assistance to low-income residents

Lisner Auditorium at George Washington University (GWU), 125 kW

ST. ELIZABETHS MICROGRID PROJECT

- \$20M awarded from FEMA's new Building Resilient Infrastructure and Communities grant;
- First FEMA-funded microgrid project in the nation; intended to serve as a national model for future resiliency projects;
- Collaboration between multiple different DC government agencies including DOEE;
- The microgrid will provide a redundant and resilient power source and reliable access to health care and emergency services, including 911 service, for DC residents in the event of a power outage.



THANK YOU

Questions about Solar for All? Contact us.

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