

Solar, Community, & The DCSEU



DC
SUSTAINABLE ENERGY
UTILITY

Introductions, DCSEU



James Clarke

Solar for All
Portfolio Manager



Josh Wink

Associate Solar
Program Manager

About the DCSEU



The District of Columbia Sustainable Energy Utility (DCSEU) is a community-minded organization committed to making energy efficiency and clean energy more accessible to every person and business in the District. Since 2011, we have helped District residents and business generate more than \$1.2 billion in lifetime energy cost savings. We provide the industry-leading learning opportunities, expert hands-on assistance, and vital financial support that save our communities both energy and money.

DCSEU Goals



DC
SUSTAINABLE ENERGY
UTILITY

Combined
Source
Energy Savings,
MMBtu



Greenhouse
Gas Savings,
MTCO₂e



Green
Jobs



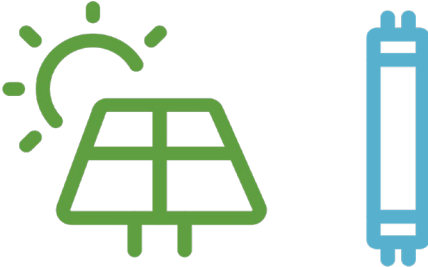
Local Economic
Development



Low-Income
Spending



Renewables
with EE



Deep Energy
Retrofits





SOLAR FOR ALL

A PROGRAM OF DC'S DEPARTMENT OF ENERGY AND ENVIRONMENT



DC
SUSTAINABLE ENERGY
UTILITY

DCSEU COG Board of Directors | 09/13/2023





- Solar for All is Mayor Muriel Bowser's initiative to bring the benefits of solar energy to 100,000 income-qualified DC residents by 2032.
- The DC Sustainable Energy Utility (DCSEU) and the Department of Energy & Environment (DOEE) are working with local solar developers to design and install solar photovoltaic (PV) systems to **provide income-qualified District homeowners and residents with solar energy savings.**
- These systems have the potential to offset electricity costs by as much as \$500 each year, saving DC families money for at least fifteen years.





DCSEU SFA Team

The 2023 DOEE Solar for All team, left to right:

Arsema Demeke (Single-Family Summer Intern),
Madison Johnson (Single-Family Program Assistant),
James Clarke (Solar for All Portfolio Manager),
Kassa Beyene (Engineering Project Inspector),
Antoine Grant (Single-Family Program Manager),
Josh Wink (CREF Associate Program Manager),
Ron Hobson (PEER Consultant Project Inspector), and
Jeanay Hines (CREF Summer Intern).

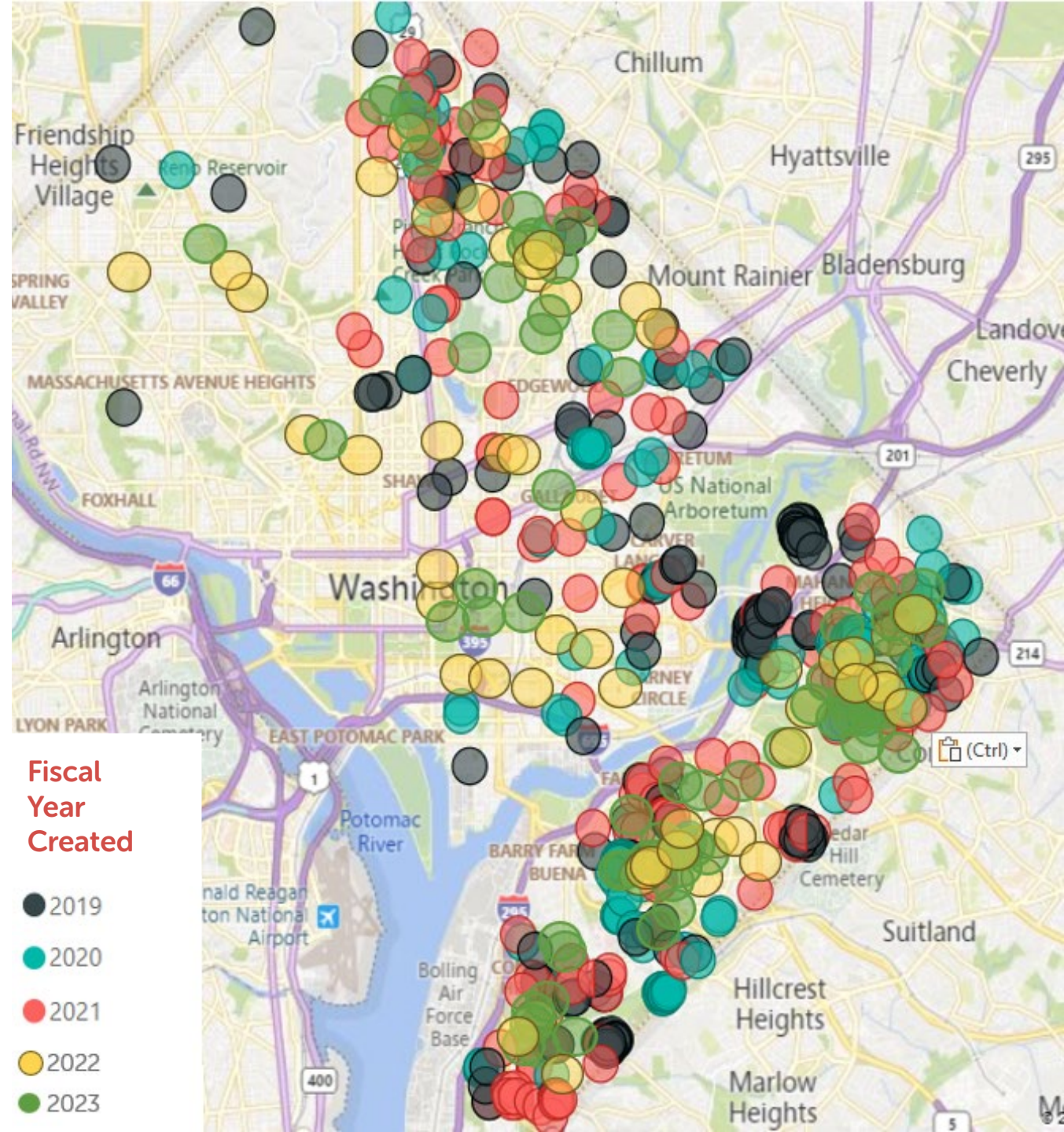
Solar for All Projects

SINGLE FAMILY

- ▶ 2019: 86 homes totaling 430kW
- ▶ 2020: 120 homes totaling 650kW
- ▶ 2021: 122 homes totaling 690kW
- ▶ 2022: 106 homes totaling 594kW
- ▶ 2023: 175 homes totaling 1300kW

CREF

- ▶ 2019: 84 CREF projects totaling 7.2MW
- ▶ 2020: 50 CREF projects totaling 6.4MW
- ▶ 2021: 32 CREF projects totaling 6.5 MW
- ▶ 2022: 41 CREF projects totaling 9.2 MW
- ▶ 2023: 30 CREF projects totaling 3.1 MW





SOLAR FOR ALL

A PROGRAM OF DC'S DEPARTMENT OF ENERGY AND ENVIRONMENT

Community Solar - CREF



DC
SUSTAINABLE ENERGY
UTILITY

DCSEU COG Board of Directors | 09/13/2023



What is Community Solar?

- ▶ Any solar project or purchasing program, within a geographic area, where the benefits of a solar project go to multiple customers such as individuals, businesses, nonprofits, and other groups.
- ▶ DC's Solar for All program is one of the most successful in the country gaining the 2023 Sunny Award for Equitable Community Solar from the U.S. Department of Energy.





CREF Program Overview

- ▶ For Community Renewable Energy Facilities (CREFs), subcontractors install solar projects and designate 100% of the actual measured electrical output for at least 15 years to DOEE.
 - ▶ DOEE works with PEPCO to distribute output to low-income DC residents.
- ▶ All projects must meet key milestones to receive incentives and must be permitted, fully installed, and operational by the end of each fiscal year.

CREF Production Requirements:

- ▶ Subcontractors will operate and maintain the system, track and report the actual electrical output for at least 15 years
- ▶ Systems must generate at least 90% of the annual expected electrical output every year for at least 15 years.

Community Solar Sites in DC

Each Community Solar Subscriber uses 3.5 kW



Children’s National Research & Innovation Campus at Walter Reed

1,148 kW System



Rock Creek Ford Solar Shingles

21 kW System



Brentwood Water Reservoir

1,800 kW System



“

We are blazing a path for other communities to follow to become clean, green, and remain affordable.

Lem Walker,
Fairfax Village Community Association President



Single-Family Solar



DC
SUSTAINABLE ENERGY
UTILITY

DCSEU COG Board of Directors | 09/13/2023





Single-Family Solar Program Overview

- ▶ For Single Family, systems of up to 5kW are installed for at least 20 years, with all electricity used on site.
- ▶ Qualified residents who need roof repair or a heavy-up (increasing the amperage entering the home) can receive assistance.

Single Family Solar Production Requirements:

- ▶ Subcontractors must design, install and interconnect each solar system as a residential net metering system;
- ▶ Subcontractors must provide **100%** of the solar electrical output at **no-cost** to the homeowner and guarantee performance for **20 years from interconnection**; including
 - ▶ 1 free removal and reinstallation for roof work during the 20-year term
 - ▶ Removal, buyout, or other options at the end of 20 years
 - ▶ Labor, installation and manufacturer warranties for 20 years



“

It's really Solar for All,
it's really for everyone.
No matter where you
come from.

Sylvie,
FY 21 SfA Single-Family Participant



DC
SUSTAINABLE ENERGY
UTILITY

Thank You!



DCSEU.com

 facebook.com/dcseu

 twitter.com/dcseu