



## MULTIFAMILY SOLAR DEVELOPMENT

# Parkchester, Washington, DC

### Overview

Parkchester is a low-income multifamily complex located in Southeast DC. The apartment complex, consisting of 9 buildings with 93 units, is owned by The NHP Foundation, a non-profit real estate developer providing affordable multifamily housing to low and moderate income families.

GRID Alternatives Mid-Atlantic installed a solar PV system that fully covers common area power consumption. Cost savings allowed The NHP Foundation to perform upgrades in the units, including new appliances, heating and air-conditioning units, kitchens, bathrooms, and a new community center to house residential services. These changes will translate to cost savings on tenants' monthly utility bills, and improve the quality of life for the residents while preserving the affordability of the complex.

### Partnership

The project is the result of a direct partnership between GRID Alternatives Mid-Atlantic and the NHP Foundation, made possible through DC Sustainability loan program.

### Community Impact



**System Size:** 118 kW (DC)  
**Lifetime Savings:** \$274,000  
**Lifetime CO2 Savings:** 3,077 tons  
**Equivalent of trees planted:** 71,579



### Helping People Live Affordably

The solar covers the cost of the common area power consumption, allowing the NHP Foundation to complete a \$2 million energy efficiency upgrade for all 94 units, including:

- New energy efficient heating and cooling system
- Refurbished kitchens
- Energy saving light fixtures
- New energy efficient TPO roof on all buildings
- Water conservation fixtures
- New community center and playground

### 6 Solar Systems and 1 Green Roof

The 9 buildings have 16 identical arrays of 28 modules each. The 118 kW system is expected to cover 100 percent of common area cost.

One of the buildings has been retrofitted with a green roof, allowing the building to meet storm water management requirements while still supporting a solar PV system.

### About GRID Alternatives Mid-Atlantic

GRID Alternatives Mid-Atlantic is an affiliate of GRID Alternatives, a national leader in making clean, affordable solar power and solar jobs accessible to low-income communities and communities of color. Using a unique, people-first model, GRID develops and implements solar projects that serve qualifying households and affordable housing providers, and offers solar education and hands-on job training to help people jumpstart their solar careers. Our work brings together affordable housing organizations, job training groups, government agencies, municipalities, utilities and local communities to make solar a win for everyone.



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*GRID Alternatives is a nonprofit organization whose mission is to make renewable energy technology and training available to underserved communities. Our vision is a successful transition to clean, renewable energy that includes everyone.*

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