



# Mechanical contractor builds on sustainable success with solar

## Challenge

Shapiro & Duncan is a mechanical contracting firm that provides HVAC and plumbing systems and services for some of the most energy-efficient buildings in the greater Washington, DC metropolitan area. The company wanted to expand on its sustainability and community involvement efforts by going solar.

## Sunpower's Solution

SunPower partner Aurora Energy Inc. designed and installed a PV system utilizing 925 SunPower 327-watt modules over a 22,000-square-foot area on the company's roof.

## Benefits

Generating local clean energy, the solar installation serves a dual purpose of environmental sustainability and reducing operational costs that can now be reinvested into the business and community.



## Quick Stats



**302.5 kW**

System Size



**\$105%**

Annual Electricity Offset



**\$45,000**

Estimated First-Year Savings From Solar



**\$1.6 million**

Total Savings Over Life Of System



**8.5 million tons of coal not burned**

Carbon Offsets



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## Building on a Sustainable Vision

Shapiro & Duncan has earned a reputation as a large-scale, mechanical contractor that has won many accolades for high-profile projects over the company's 43-year history. For three generations, the organization has contributed to the built environment in and around Washington, DC, with advanced mechanical solutions that improve energy efficiency and building performance.

The company is also known for an unwavering commitment to community and corporate responsibility. In 2018, Shapiro & Duncan earned the Montgomery County Corporate Social Responsibility award in recognition of its work in youth development, career education, charitable causes as well as its overall management excellence and company practices.

Seeking to build on its efforts, the company's leadership team became interested in going solar. SunPower partner Aurora Energy answered the call by designing and installing a high-performance rooftop solar PV system. Featuring 925 SunPower high-efficiency solar panels, the system offsets all electricity-related carbon emissions and has virtually eliminated the company's electricity bill.

Savings from the PV system are projected to be \$45,000 in the first year. Over the course of the next 25 years, solar is expected to save the company \$1.6 million. But the impact on community well-being is worth much more.

"Solar was a way to enhance our community commitment through environmental consciousness. The idea of producing our own energy from the most advanced technology available also aligns with our company's expertise in cutting-edge mechanical solutions. Going solar has been a total win-win."

### Mark Drury

Shapiro & Duncan Vice President-Business Development.



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