



Solar Panel Installers at Lumina Solar Add Battery Backup for Virginia

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Virginia property owners who have watched energy costs climb are increasingly interested in storing the solar power they generate rather than sending all of it to the grid during the day. Lumina Solar, a solar panel company operating from Fairfax, pairs solar panels with battery backup and energy storage for homes and businesses across the state, letting a property owner keep surplus output for later use. The company's solar panel installers design each system around a property's consumption and how much stored energy the owner wants on hand.

Adding storage changes what a solar system can do. Rather than relying on the grid once the sun goes down, a system with a battery holds surplus solar energy for the evening or for an outage, keeping essential circuits running when utility service is interrupted. The U.S. Energy Information Administration describes energy storage not as a primary source of electricity but as a technology that balances supply and demand and strengthens grid stability, which is part of why storage is now so often installed alongside photovoltaic panels that convert sunlight into power.

The pairing is becoming standard rather than exceptional. The Solar Energy Industries Association reported

that the United States installed a record volume of energy storage in 2025, and the Energy Information Administration and Wood Mackenzie have forecast that by 2030 nearly a quarter of all residential solar systems will include battery storage. For many Virginia residents, that means weighing storage at the time of the original install rather than returning for a separate project later.

Lumina Solar installs solar panels, inverters, and battery storage as a single project, so a property owner can add stored solar power for evening use or backup without a second build. The company carries out site assessment, system design, engineering, permitting, and construction with its own in-house crews rather than routing the work to subcontractors; its technicians are licensed and insured, and it holds the licenses required for the electrical work involved. Residential projects generally center on rooftop arrays sized to a household's usage, while commercial installations are engineered around the larger electrical loads of a business property. Certified solar panel installers complete formal training and periodic recertification, and the company coordinates the required inspections and utility approval before a system is switched on.

Lumina Solar was founded in 2018 and has completed more than 6,000 installations across Maryland, Pennsylvania, Virginia, Delaware, and Washington, D.C. The company runs its Virginia operations from Fairfax and employs more than 150 staff, including NABCEP-certified installers and licensed electricians. Equipment such as panels, inverters, and batteries typically carries manufacturer warranties separate from the workmanship warranty a company provides, and those warranty terms are among the details reviewed with each customer during the design stage.

Property owners comparing a solar panel company against other providers are commonly advised to check certification, licensing, local installation history, and how much of the work the company performs with its own crew. The field is expanding: the Bureau of Labor Statistics projects employment of solar photovoltaic installers to rise 42% between 2024 and 2034, a distribution its Occupational Employment and Wage Statistics program records by state and metropolitan area. As solar sits within the broader category of renewable energy and alternative energy, and as the number of solar panel installers and solar companies in the region grows, verifying credentials and in-house capability gives Virginia homeowners and businesses a dependable basis for choosing among clean energy and renewables providers and the solar energy systems they receive.

Virginia homeowners and businesses can request an estimate and more information about battery backup, energy storage, site assessment, system design, and installation through Lumina Solar.

About Lumina Solar

Lumina Solar is a solar panel installation company founded in 2018 and serving Maryland, Pennsylvania, Virginia, Delaware, and Washington, D.C. The company provides residential and commercial photovoltaic installation, including system design, site assessment, permitting, battery backup, energy storage, and system monitoring. Lumina Solar operates its Virginia office in Fairfax and employs more than 150 staff, including NABCEP-certified installers and licensed electricians.

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Lumina Solar

Cut your electric bill with solar from Lumina Solar. We design and install high-efficiency residential and commercial solar systems across the Mid-Atlantic, guiding you through incentives, tax credits, permitting, and install.

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