



Scarlet Solar and Energy Storage

Fresno County, California

⚡ Installed capacity: **400 MW + 190 MW Energy Storage**

🏠 Online since: **2024**

🏠 Homes powered: **219,200 California homes¹**

Scarlet Solar and Energy Storage consists of two phases and is located in Fresno County, California, approximately 3.5 miles west-southwest of the community of Tranquillity and approximately 6.5 miles east of Interstate 5 (I-5). The solar energy park complements the area's desert landscape while harnessing the region's abundant sun.



\$50 million

Total project impact



\$927,000

Revenue for public services



\$628,000

Revenue for landowners



\$48.6 million

Local spending



4

Permanent jobs



470

Construction jobs

Energy security

Domestic power generated at the site will **bolster California's electric grid while strengthening national energy security**. The energy storage will deliver flexible, on-demand power when and where it's needed most.

Environment and solar energy storage projects

Energy storage facilities are **designed to release no pollutants** into the air, soil, or waterways. Solar panels **contain no liquids and pose no risk** to the environment or human health.

Energy storage safety

Lithium-ion batteries used in energy storage are already a part of daily life — found in cell phones, laptops, and power tools. These facilities are highly regulated to ensure the safety of neighbors and communities.

Scarlet's environmental impact

The energy storage project will save more than **287 million gallons** of water each year and would prevent the air pollution that causes smog and acid rain.²



EDPR NA's impact in North America from solar energy³



850,000+

Homes powered



\$45.7 million

Revenue for landowners



\$30.4 million

Revenue for public services



4,900 jobs

Permanent & construction

How is energy storage useful?



Reduces outages & enhances resilience



Reduces costs and saves money



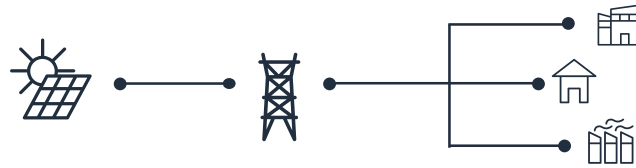
Builds a stronger, more efficient grid



Supports local economies

How solar energy works

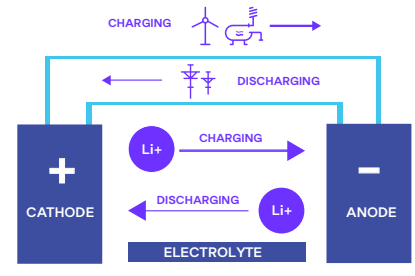
EDPR NA uses photovoltaic (PV) solar cells, which convert sunlight directly into electricity. The resulting direct-current electricity is then collected, converted to alternating current, adjusted to the proper voltage, and delivered to the electrical grid.



Solar has become one of the **most affordable** forms of energy, with **costs falling 71%** over the past decade.^{4,5}

How energy storage works

Energy storage systems capture excess electricity from the electric grid during off-peak periods and release it during times of high demand — including extreme weather events when power generation may be limited.



Energy storage systems are fuel-neutral, meaning they can capture and dispense electricity from a wide range of sources, including oil, gas, coal, nuclear, geothermal, and EDPR NA's own wind and solar projects.

Scan the QR Code to explore educational resources on renewables and how we are empowering local economies, as well as meeting the energy demand of today.

▶ *Scan the QR Code using the camera on your mobile device.*



¹Solar power generation calculated using a 25% capacity factor. The cost and performance of the battery systems are based on an assumption of approximately one cycle per day. Therefore, a 4-hour device has an expected capacity factor of 16.7% ($4/24 = 0.167$). Household consumption based on 2024 EIA Household Data monthly average consumption by state. This assumes that all energy is stored from a renewable source and discharged at the grid average.

² Assumes 0.58 gallons of water consumed per kWh of conventional electricity from Lee, Han, & Elgowainy, 2016. This assumes that all energy is stored from a renewable source and discharged at the grid average.

³ Based on EDPR Renewables North America's Operational Solar Parks through 2025.

⁴ Lazard's Levelized Cost of Energy 2024 (version 17.0)

⁵ Based on American Clean Power Associations Annual Market Report, 2024.

About us

EDPR Renewables North America LLC (EDPR NA), its affiliates, and its subsidiaries develop, construct, own, and operate wind farms, solar parks, and energy storage systems throughout North America. Headquartered in Houston, Texas, with 61 wind farms, 29 solar parks, four energy storage sites, and eight regional offices across North America, EDPR NA has developed more than 12,900 megawatts (MW) and operates more than 12,300 MW of onshore utility-scale renewable energy projects. With more than 1,000 employees, EDPR NA's highly qualified team has a proven capacity to execute projects across the continent.

For more information, visit www.edprnorthamerica.com

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