



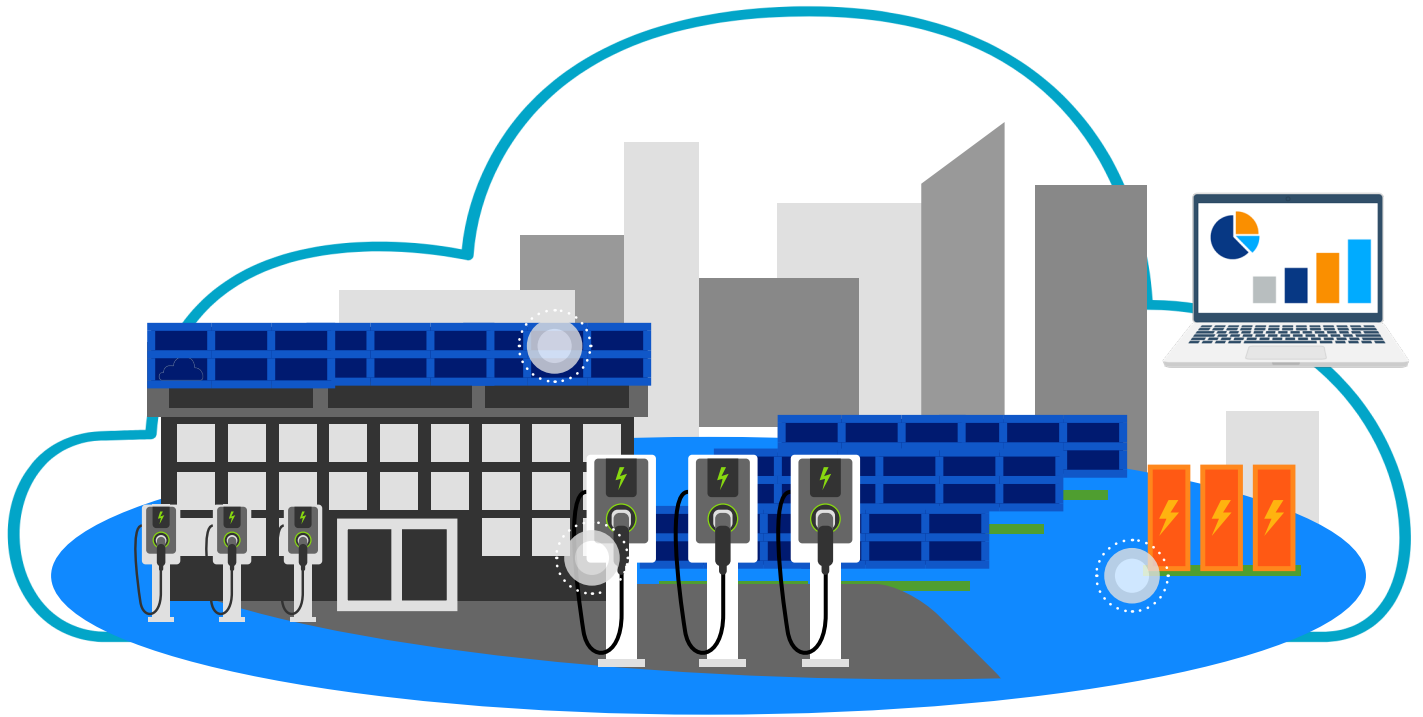
**powerflex**  <sup>TM</sup>

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[powerflex.com](http://powerflex.com)

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# One Place for All of Your Clean Energy Needs



## powerflex ™

PowerFlex X is an intelligent energy management platform that monitors, controls, and optimizes onsite energy assets - solar, energy storage, EV charging stations, microgrids.

With PowerFlex X, real-time data streams from energy assets to an edge device that optimizes the energy assets. The data streams to the cloud into a forecasting model that ensures the peak performance of assets and reduces energy costs across the site.

The platform's power optimization algorithms includes Adaptive Load Management, which intelligently balances the power distribution across all energy assets, reducing asset installation and operating costs by up to 60%.

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**PowerFlex X helps make the most of energy assets: lowering costs, increasing resilience, and advancing sustainability.**

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With a single sign-on, customers gain transparency and access to the system performance of their energy assets with real-time data, actionable alerts, dashboards, and intuitive reporting.

# Scalable Options Cover All of Your Onsite Energy Assets

## Solar Photovoltaic (PV) Monitoring and Data Acquisition System

PowerFlex X monitors energized solar assets for increased solar system uptime and translates data into a user-friendly management tool.

**PRODUCTION MODELING** - Understand and compare your system's measured energy to weather-adjusted modeled energy and historical-expected energy for accurate performance analysis.



Amazon Fulfillment Center, Tracy, CA



Cubic Corporation, San Diego, CA

## Battery Energy Management

PowerFlex X makes it easy to control energy usage and reduce operational costs.

**COST SAVING STRATEGIES AUTOMATION** – Utilize stored energy during times when utility rates are highest and easily participate in lucrative demand response programs that mitigate blackouts and brownouts on the grid.

## EV Charging Management

PowerFlex X delivers instant access to data, system performance, and support for worry-free energy asset operations by facility managers and fleet managers.

**SECURE AND OPEN SYSTEM** – Integration with other systems is made easier with our certified OCPP & Open ADR 2.0 protocol.

### HEALTH, PERFORMANCE, AND OPERATIONAL DASHBOARDS WITH TELEMATICS INTEGRATION –

Coordinates vehicle schedules, utility charges, telematics data, and onsite energy activity intelligently to take the guesswork out of vehicle electrification.



## Adaptive Load Management (ALM)

PowerFlex’s Adaptive Load Management (ALM) technology enables grid-friendly EV charging.

ALM shifts electrical load from peak times, when energy costs are highest, and ensures a cost-effective balanced power draw throughout the day. The ALM algorithms work to co-optimize EV charging, energy storage, and solar generation to reduce costs. PowerFlex’s portal monitors energy asset health and performance along with operational dashboards and reports.

**ENERGY OPTIMIZATION** – Power to each station is controlled individually in real-time, factoring in the facility’s power availability to balance the power draw across a network of EVs.

**INTELLIGENT DISTRIBUTION OF ENERGY** – ALM shifts EV charging loads based on capacity constraints, cost of energy, departure time, energy targets, and other custom inputs.

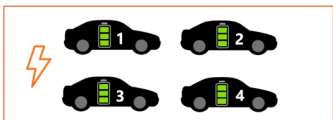
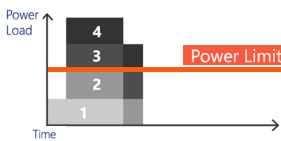
**REDUCED INSTALLATION TIMELINE** – Eliminates the need for expensive utility service upgrades, which prolong the installation process.

**SIGNIFICANT COST SAVINGS** – Shave as much as 60% off the cost of electrical system upgrades and ongoing peak demand charges.



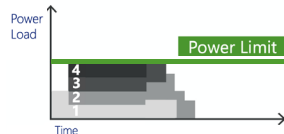
ALM shifts electrical load from peak times, when energy costs are highest, and ensures a cost-effective balanced power draw throughout the day.

### Unmanaged Charging



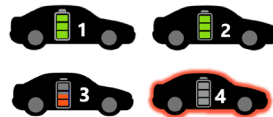
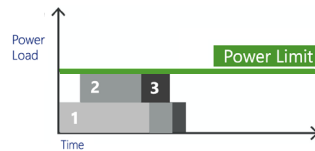
EVs may get the power they need, but the power load peaks above the limit, resulting in **expensive demand charges** or a **circuit trip**.

### Equal Share Charging



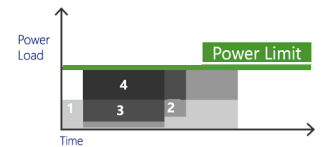
Power is divided equally among EVs to stay below the limit, but **not all drivers get the charge they need** by the time they leave.

### First come, First Served Charging



EVs that arrive later must **wait** until the first ones are finished charging, but the load stays below the limit.

### Adaptive Load Management (ALM)

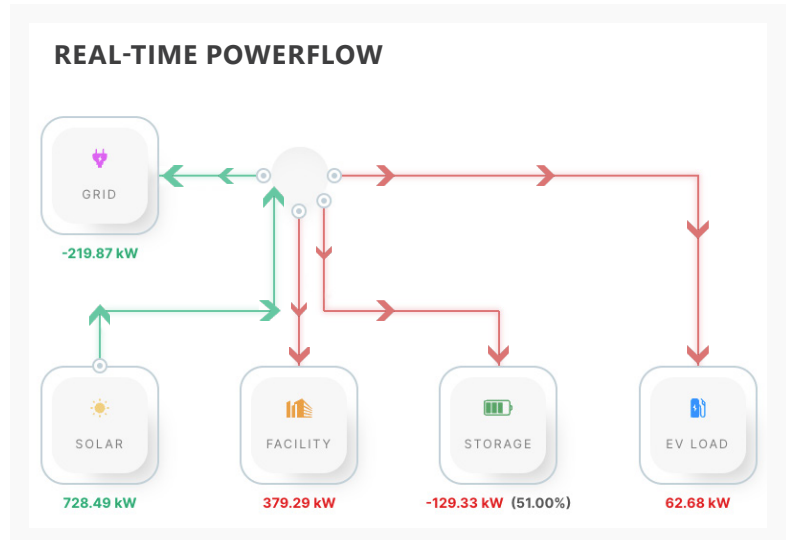


Power is **intelligently distributed** to stay below the limit while providing all EVs the charge they need. A win-win for site owners and end users (drivers)

# A Unified Intelligent Platform to Optimize Energy Production and Use

## Data Acquisition

Monitor energy assets continually so you don't have to. The on-site energy controller streams data on all energy assets – solar, energy storage, EV chargers, microgrids – to continuously monitor and send alert notifications about the health and performance of clean energy assets. The controller is installed in a discrete, space-saving enclosure that can be securely installed indoors or outdoors. The centralized data is transmitted to the cloud for on-demand access and reporting. The data is also hosted inside the onsite controller, which increases the system's reliability should the cloud communication experience any disruptions.



## Optimization

Guarantee all your clean assets operate at peak financial and operational efficiency.

The intelligent engine autonomously orchestrates solar energy, battery storage, EV chargers, microgrids, and site loads for cost savings and greenhouse gas (GHG) reductions.

The algorithms learn from real-time conditions to make performance predictions and optimize the performance of clean energy assets individually and together with one another as a whole.



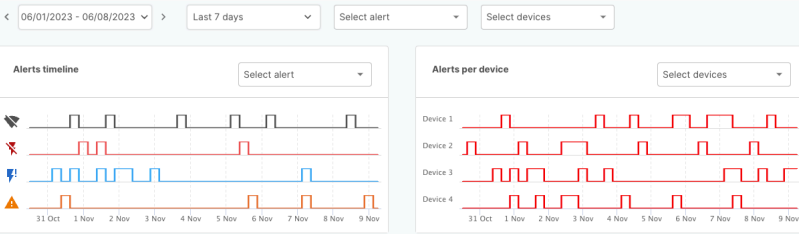
The algorithms learn from real-time conditions to make performance predictions and optimize performance.

## Monitoring & Reporting

Gain transparent insights into the performance of your entire clean energy portfolio.

The platform’s user-friendly portal provides real-time monitoring and historical reporting—all in one place. Site owners can visualize all power streams, including solar generation, energy storage, EV loads, facility loads, and utility draw. Built-in notifications and alerts enable users to recognize and troubleshoot issues in under 90 seconds. Reports and dashboards track solar and storage incentives, energy bill savings, EV charging metrics, and GHG reductions that can be quickly exported into a shareable report.

### ALERTS



## Scalability

Leverage hardware and software that meets growing energy needs.

The platform’s remote sensors and cellular-enabled communications can expand to accommodate clean energy assets as they are added. PowerFlex rolls out updates through over-the-air connectivity to minimize the need for maintenance and ensure the latest features are active. With PowerFlex X, you can rest assured that your management system can accommodate your evolving clean energy infrastructure needs.

# WHY POWERFLEX?



**9,500+ EV**  
CHARGING STATIONS  
INSTALLED



**330+ MW**  
COMMERCIAL SOLAR  
INSTALLED



**44+ MWh**  
ONSITE STORAGE

PowerFlex, an EDF Renewables affiliate, is a clean technology solutions company that supports the transformation to carbon-free electrification and transportation.

PowerFlex is the second largest installer of commercial rooftop solar and the fourth largest network of level 2 EV chargers in the U.S. working with hundreds of businesses and municipalities to achieve their energy and sustainability goals. To date, PowerFlex’s solar and storage projects offset 70,000 tons of CO2 each year. Our 10,000+ EV chargers were responsible for offsetting 13,000 tons of CO2 in 2022.

PowerFlex includes 24/7 proactive monitoring and support services. The PowerFlex Asset Management team includes bilingual phone support for Operations teams and EV drivers to resolve issues as they arise.

**For more information:**

Visit [www.powerflex.com](http://www.powerflex.com)

Contact [sales@powerflex.com](mailto:sales@powerflex.com)