

## New Products

In fiscal year 2025, Electric Inc. expanded its portfolio with three major product launches aimed at accelerating the company's strategic focus on sustainable energy solutions and digital-first customer experiences. These new offerings—the **EcoCharge Pro™ smart EV charger**, the **GridSync Analytics™ platform**, and the **PowerVault Plus™ home energy storage unit**—are designed to address growing market demand for efficient, interconnected energy systems and to support Electric Inc.'s commitment to carbon-neutral operations by 2030. Each product leverages advanced hardware integration, real-time data analytics, and user-centric software to deliver performance, reliability, and actionable insights for both residential and commercial customers.

### 1. EcoCharge Pro™ Smart EV Charger

**Launch Date:** April 2025

**Target Segment:** Residential and small-fleet electric vehicle owners

**Key Features & Benefits:**

- **Adaptive Charging Algorithms:** EcoCharge Pro automatically adjusts current draw based on time-of-use rates, grid demand signals, and the user's charging habits to minimize electricity costs and grid stress.
- **Bidirectional Vehicle-to-Grid (V2G) Capability:** Enables compatible EVs to discharge stored energy back to the home or grid during peak pricing periods, providing supplemental power and potential revenue streams.
- **Integrated Mobile App & Voice Control:** Users can schedule charging sessions, monitor real-time power flow, and receive maintenance alerts via the Electric Inc. mobile app or through smart assistants.
- **Compact, Weather-Resistant Design:** IP67-rated enclosure withstands outdoor installation, with modular mounting options for garages, carports, or communal parking areas.

**Performance & Early Adoption:**

In its first quarter on the market, EcoCharge Pro achieved over 5,000 unit installations across North America and Europe, with customer satisfaction scores averaging 4.7 out of 5 thanks to its intuitive setup process and energy-saving capabilities. Pilot programs with two major fleet operators demonstrated up to 18% reduction in peak-hour charging costs and a 12% increase in overall charger utilization through V2G participation.

### 2. GridSync Analytics™ Platform

**Launch Date:** June 2025

**Target Segment:** Commercial facility managers, utilities, and energy service companies

**Key Features & Benefits:**

- **Unified Data Dashboard:** Aggregates real-time telemetry from distributed energy resources (DERs), building management systems, and smart meters into customizable visualizations.
- **AI-Driven Forecasting:** Uses machine-learning models to predict load curves, solar and wind generation, and equipment maintenance needs up to 72 hours in advance.
- **Automated Demand Response Orchestration:** Interfaces with utility demand-response programs to dispatch stored energy or curtail non-essential loads in response to grid events, maximizing incentives.

- **Open API Ecosystem:** Allows third-party developers to build specialized analytics modules or integrate external data sources (e.g., weather feeds, market prices).

**Performance & Early Adoption:**

During beta trials with three regional utilities, GridSync Analytics delivered load-forecast accuracy improvements of 22% versus legacy systems, enabling cost savings of approximately \$1.2 million per utility in wholesale energy procurement. Two commercial real-estate clients reported a 15% reduction in operational energy spend within their first 60 days of deployment, attributed largely to the platform's maintenance-prediction alerts and automated load-shifting recommendations .

### 3. PowerVault Plus™ Home Energy Storage Unit

**Launch Date:** February 2025

**Target Segment:** Homeowners with rooftop solar or backup-power needs

**Key Features & Benefits:**

- **Scalable Modular Design:** Each PowerVault Plus module provides 10 kWh of usable capacity; units can be stacked up to 50 kWh to suit varying household demands.
- **High-Cycle Lithium-Iron Phosphate (LFP) Chemistry:** Ensures over 5,000 full-depth cycles with minimal capacity fade, supporting a 15-year usable lifespan.
- **Seamless Solar Integration:** Built-in DC coupling reduces conversion losses and enables direct charging from photovoltaic arrays when the sun is shining.
- **Grid-Backup & Islanding Mode:** Automatically switches to off-grid operation during outages, powering critical loads (refrigeration, lighting, communications) for up to 48 hours on a single 20 kWh configuration.

**Performance & Early Adoption:**

Since its commercial introduction, PowerVault Plus has been deployed in over 3,200 homes across key U.S. and Australian markets. Real-world performance data show an average round-trip efficiency of 92%, outperforming most competing storage solutions. Customer surveys indicate 88% of adopters cite “peace of mind during outages” as a primary motivator, while 67% report monthly energy-bill savings of 10–14% through solar self-consumption optimization