e2Companies

We Make Things Work®
in Retail

In an increasingly high-tech world that relies on machines to produce, protect and transport goods, it's more important than ever for retailers to protect themselves against power outages. Even a short-term outage can result in damaged or spoiled products, decreased store traffic, lost income and challenges delivering goods on time. Unfortunately, most backup energy systems aren't designed to sustain prolonged outages.

Here's the good news: Although you can't control the weather, you can control your response. **Virtual Utility®** provides **instantaneous power for your entire retail operation,** protecting your products and your reputation while **enhancing the customer experience through fast, reliable EV charging.** Virtual Utility® can also be used as an alternative to the public utility to help **lower your energy costs.**

e2Companies can help you provide a safe, comfortable experience for customers and employees with continuous, uninterruptible power that meets utility, safety and environmental standards.

Virtual Utility®

Virtual Utility® is the first utility-grade network that combines power generation, battery storage, and proactive energy management.

This has many benefits for retailers, including:

- **Blip-free,** conditioned power that keeps your business running smoothly, regardless of the weather

- Ability to shift between the public utility and on-site power, resulting in **energy savings and autonomy**

- **Ability to offer on-site EV fast-charging stations** for customers and employees, increasing store traffic and time in stores, shopping centers or dealerships

- **The potential to take advantage** of The Inflation Reduction Act (IRA) and National Electric Vehicle Infrastructure (NEVI) tax incentives, covering up to 40% of the cost of installation

- **Improving the reliability** of existing or future renewable energy sources

- **Maintain compliance** and achieving ESG goals for a measurable societal return on investment (SROI)

Virtual Utility® Components

R3Di®
Reliable, Resilient, Responsive Power Generation

Our patented R3Di® System is the heart of Virtual Utility® — a self-contained, modular and mobile unit consists of a **prime-rated, rich-burn natural gas generator and a lithium-iron phosphate battery energy storage system, providing up to 1 MW of power** to your retail operation 24 hours a day, 7 days a week, 365 days a year.

The system is ETL certified to UL 9540 and operates either in sync with the grid or independently of it, giving facility managers flexibility to generate power on-site as needed during utility outages, storm avoidance, when utilities reach peak demand or when energy prices are high.

R3Di® provides clean, conditioned power to all connected loads, ensuring critical equipment avoids voltage sags or spikes that impact operations.

Compliance and Environmental Services

Our team provides all testing, indemnification, monitoring and reporting to ensure your system meets emissions standards and complies with environmental regulations throughout its useful life. We can help your team set specific, measurable ESG goals based on industry benchmarks and your facility's assets and provide regular reporting on your progress.

The R3Di® System has the lowest emissions profile available amongst comparable reciprocating engines based on independent third-party review with a globally recognized ESG firm.

> On average, R3Di® saves 19,322 tons of emissions tons of emissions cradle to gate compared to traditional battery storage systems.

Grove
Real-Time Energy Management

e2's 24/7 energy management team unlocks opportunities for energy savings with smarter energy management and behind-the-meter asset optimization. Our team customizes strategies to each company's needs and continually monitors equipment, weather, grid conditions and pricing to respond to real-time market fluctuations, helping your facility save money and generate economic returns.

Integrated Design for EV Fast Charging

By 2030, it is estimated that EV charging demand will surge from 11 billion kWh to 230 billion kWh. Although private in-home charging stations are becoming more available, the scarcity of public DC Fast Charging (DCFC) is a problem for EV drivers. The R3Di® system integrates with current EV and fleet chargers. There's no impact to the provider facility as the system only uses excess capacity for charging.

This means you can attract more customers to your store, increase time spent in your store, and grow revenue for your business by being a go-to destination for EV fast charging.

According to ChargePoint statistics, retailers offering EV charging are seeing numerous ancillary benefits:

- A **1.25x increase** in same-store visits
- **More than double** the amount of total time spent in store (2.1x)
- A **15-20% increase** in same-store sales revenue

Ensure reliability. Reduce costs. Reimagine your energy future.

Guaranteeing continuous, uninterrupted power to your retail locations protects and can even elevate your business. You can choose the technology to generate, procure and store that power. With greater demand for electricity than ever before, continued increases in renewable sources powering the grid and increased power needs from electric vehicles, the grid needs to increase capacity by 300% in the next decade.

Virtual Utility® is the technology that allows you to ensure reliability, reduce costs and actively manage your energy future. The power is in your hands.

Schedule a discovery call today at e2companies.com.

CONTACT US