e2Companies

We Make Things Work®

for Data Centers

According to Frost & Sullivan research, global data center energy consumption is projected to grow 27% by 2030 to 353 terawatt hours (TWh) and is soon expected to hit eight percent of global energy consumption.

This added demand, combined with unpredictable weather patterns, means that resolving critical power issues while adhering to environmental regulations is increasingly difficult.

Through Virtual Utility®, e2Companies helps you **increase your resiliency through reliable, uninterruptible power,** while also enabling your data center to **operate independently of the grid.**

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 data centers, including:

- **Uninterruptible, conditioned power** that keeps your data centers running smoothly, regardless of external factors and grid challenges
- **Expansion of your usable real estate** with an uninterruptible power supply (UPS) located outside your facility
- **Integrated Project Management,** overseeing permitting, construction, turnkey installation, commissioning, and setup
- **Increased reliability** for existing or future renewable energy sources
- **Compliance maintenance** and achievement of ESG goals for a measurable societal return on investment (SROI)
- For U.S. companies, **the potential to take advantage** of the Inflation Reduction Act (IRA) and National Electric Vehicle Infrastructure (NEVI) tax incentives, **up to 40% the cost of installation**

Virtual Utility® Components

R3Di®

Reliable, Resilient, Responsive Power Generation

Our patented R3Di® system is the heart of Virtual Utility® — a self-contained, modular, 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 data centers 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.

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

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 even generate economic returns.

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 conducted by a globally recognized ESG firm.

On average, our R3Di® System saves 19,322 tons of emissions cradle-to-gate compared with conventional battery storage systems.

Ensure reliability. Reduce costs. Reimagine your energy future.

Guaranteed continuous, uninterrupted power for your data center. 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.

Now is the time to take a proactive approach to your facility's energy consumption and costs.

Schedule a discovery call today at e2companies.com.

CONTACT US