

# A Microgrid Solution For Your Data Center

*Microgrids with solar, cogeneration, and battery storage support sustainability commitments, reduced operating costs, and increased resiliency.*

As data centers evaluate their energy needs, leaders typically face one or more of four challenges as they work to optimize their operations:



## 1. Sustainability

Meet evolving ESG and sustainability commitments of corporate leadership



## 2. Savings

Reduce operating costs by cutting energy costs for the facility



## 3. Resiliency

Increase redundancy by adding additional on-site power to existing diesel generators



## 4. Capex

Add capacity as processing power needs grow

## Unison Energy

Unison Energy is enabling the energy transition for our customers. On-site microgrids support corporate ESG initiatives while providing resilient power — and our ESA model helps alleviate capital constraints and rising energy costs. A Unison microgrid allows data centers to take control of their energy future:

- **Combined heat and power (CHP)** provides reliable, cost-effective electricity and can operate in island mode to provide power to the data center when the utility is down during long outages, conserving diesel fuel
- Using the **waste heat** to power absorption chillers improves efficiency and reduces the carbon footprint of the data center
- Adding in **solar** and **battery storage** where possible, including in parking lots and adjacent land, increases renewable energy



## A Turn-Key Energy Solution

Unison Energy uses the Energy as a Service (EaaS) model to invest in facilities. We sign a long-term contract to provide electricity and thermal energy. We invest all of the capital required and handle permitting, engineering design, equipment, construction, and ongoing maintenance. We only bill for energy used by the facility.

### Typically our clients see:

- 5-15% saved on total gas and electric bills
- 20-60% reduced CO2 emissions depending on location and thermal load
- 60-85% system efficiency vs. 38% grid efficiency

Our scope includes on-site microgrids using CHP, solar, and battery storage, but can be expanded to include energy infrastructure upgrades such as chiller upgrades, adding battery, or diesel capacity.

An on-site microgrid is an investment in the future. As additional technologies and fuel sources become available, such as biofuels, renewable natural gas, hydrogen, and carbon capture, they can be incorporated into the existing infrastructure.

### Unison Energy as a partner:



#### Build

Our team has experience designing, permitting and building hundreds of sites, including everything from utility power plants to fuel cells to small CHP installations



#### Operate

Our operations team leads the industry in uptime, with a 24/7 staffed monitoring center, dedicated field service technicians, large inventory, and proprietary technology



#### Energy as a Service

Our projects stay on our balance sheet. Under the terms of our 15- to 25-year energy services agreements (ESA), our customers make no initial investment and instead make payments based on their energy usage