



DMK  
Project Solutions  
Services

"Supporting Your Projects from Conception to Completion"

# THE LITHIUM ADVANTAGE, POWERED BY DMK

## SPECIALIZED BESS INTEGRATION AND INSTALLATION

### THE CHALLENGE

Data centers face surging AI workloads, rising energy costs, and strict sustainability targets. Legacy VRLA batteries are bulky, inefficient, and short-lived. Operators need storage solutions that boost performance in a smaller, more efficient footprint.

### THE LITHIUM ADVANTAGE

Lithium-ion BESS technology delivers:

#### RELIABILITY

Fast response & extended backup for uptime

#### EFFICIENCY

More capacity in less space, lowering PUE

#### LONGEVITY

Up to 15-year lifespan; more than double traditional VRLA

#### SUSTAINABILITY

Supports renewable integration & decarbonization

#### FLEXIBILITY

Supports peak demand management & participation in grid services

### INSIDE VS. OUTSIDE DEPLOYMENT

BESS systems can be deployed inside the white space or outside at substations, each offering advantages:

**Inside Units:** Close integration with UPS systems, ideal for maximizing efficiency and minimizing transition time during outages. Compact lithium racks free up white space while reducing HVAC load- directly lowering PUE.

**Outside Units:** Containerized or modular systems at the substation level provide large-scale backup capacity, scalability, and reduced floor space demand inside the facility. They also simplify upgrades and maintenance without disrupting operations.

Together, these deployment options give operators the flexibility to design for both resiliency and efficiency.

### RETURN ON INVESTMENT (ROI)

Investing in lithium BESS strengthens both uptime and economics:

- Lower O&M Costs from fewer replacements & reduced maintenance
- Energy & Cooling Savings improve PUE & lower operating expenses
- Revenue Opportunities via demand response & grid participation
- Downtime Avoidance- protecting millions in potential outage losses

**Result:** Lithium BESS upgrades pay for themselves while supporting sustainability and growth.

### THE FUTURE OF POWER STARTS HERE

At DMK Project Solutions Services, we deliver more than technology- we deliver execution. With decades of data center program management experience, we seamlessly integrate lithium BESS solutions inside your data halls or at substations that ensures your upgrade is on time, on budget, and disruption-free.

**READY TO MAKE THE MOVE TO LITHIUM?**  
**CONTACT US TODAY TO UNLOCK RESILIENT, EFFICIENT & FUTURE-PROOF POWER FOR YOUR DATA CENTERS**



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