



# Solar & Battery Storage Services

PV Systems, Battery Storage & Microgrids

JMT is focused on innovative and practical solutions to meet challenges posed by the changing energy landscape and increase in energy demands.

JMT's extensive experience in electrical, mechanical, and energy engineering services have provided our clients with leading solar photovoltaic (PV) and battery storage solutions. JMT guides clients through each step of solar PV projects—from site surveying and existing conditions assessments to array design and installation. Our battery storage solutions ensure optimal energy efficiency and conservation while decreasing greenhouse gas emissions and long-term energy costs.



## Solar Energy Services

- ✓ **Battery Storage Services**  
Our battery storage solutions integrate with solar PV systems to reduce energy waste, enhance energy security, and lower costs.
  - ✓ **Microgrid Design**  
Our microgrid designs employ solar PV with battery storage to optimize microgrid functionality, efficiency, reliability and resiliency as a means to power to our clients' critical processes, systems, and equipment.
  - ✓ **Solar Array Design**  
JMT supports solar PV projects from site survey to installation, optimizing wiring and maximizing energy output.
  - ✓ **Solar Canopy Design**  
JMT designs innovative solar canopies that protect vehicles, generate year-round energy, and reduce costs with integrated battery storage.
- Battery Storage & Back-Up
  - Canopy & Ground Mounted PV Systems
    - 4 KW Panels
    - 50 MW Arrays
  - Energy Assessments
  - Emergency Generation Back-Up Power
  - Existing Conditions Assessment
  - FERC Compliance
  - Funding & Rebate Programming
  - Interconnect Agreements
  - Microgrid Designs
  - Utility Coordination
  - Solar Electrical Wiring Design
  - Site Services - Land, Civil, and Survey

**We invest in people.**

Our employees, clients, and the communities we serve.

## Project briefs



### **Microgrid Innovation for Military Resilience**

The Energy Team at Clark Nexsen, a JMT Company, is currently designing an advanced microgrid for the U.S. Navy at one of their installations prone to frequent power outages. The advanced microgrid will support the critical DoD and NATO missions carried out at the U.S. Navy base ensuring energy security and providing energy resiliency.



### **Charging Ahead: JMT's PV Canopy with Integrated Microgrid Storage**

The goal was to add solar panels over the bus parking area and to collect enough solar energy in batteries during the day to charge electric buses at night. JMT supplied design support services along with mechanical and electrical engineering for the new free-standing PV canopy system with Electrical Vehicle Charging Stations and an integrated microgrid battery storage system.



### **JMT Advisory Services for Utility-Scale Solar Development**

JMT was selected by Spotsylvania County, Virginia to provide expert consultation on a new 550 MW (6,500 acre) solar facility. JMT's role included reviewing technical and environmental studies, evaluating decommissioning cost estimates, and assessing potential impacts such as heat island/heat dome effects, noise and vibration during construction and operation.



### **Energy Security and Efficiency Enhancement using a Battery Energy Storage System (BESS)**

The Energy Team at Clark Nexsen, a JMT Company, performed detailed fieldwork and verified existing conditions in support of developing a conceptual design for a new Energy Storage Distributed Energy Resource utilizing a 10MW/15MWh BESS. This resulting BESS was optimally sized to provide power for load shifting/load leveling during peak energy use hours, and to provide emergency power as spinning reserve to support critical loads and infrastructure at the facility.



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