GSIA-PARSONS JOINT VENTURE LLC

Energy and Resiliency Solutions

GSIA-Parsons Joint Venture LLC, an SBA-certified 8(a) mentor-protégé joint venture, combines the expertise of GSI Americas Inc. (GSIA), a Native Hawaiian Organization (NHO) certified 8(a) small business, and Parsons, an industry leader in energy and resiliency solutions. Together, our team leverages GSIA's two decades of experience across CONUS and OCONUS markets and Parsons' 80 years of direct contract delivery to provide innovative, reliable, and sustainable energy solutions for military and civilian infrastructure clients.

Our Services

PMCM and Design-Build Services

- Program Management
- Planning and Procurement
- Construction/Installation Oversight
- Owner's Engineer/Representative
- System Management and Monitoring
- OM&M
- Safety Management
- Design-build microgrids, photovoltaic charging, energy storage, and electric vehicle charging systems
- Overhead and underground high voltage and ultra-high voltage transmission systems
- Substation, switchgear, and distribution systems

Engineering and Technology

- Engineering and Design
- Inspection
- Studies and Validations
- Facilities Condition Assessments
- Site Surveys
- Environmental Compliance
- Smart Grid Control Systems
- Microgrids and Energy Storage Systems
- Meter and Operational Data Management
- DERMS and Demand Response
- Analytics and Operational Intelligence
- Cyber Protection/System Hardening
- eCOMET® for Facilities Energy Assessments

Highlights

- Over 8,000 circuit miles of overhead high voltage transmission lines
- 250+ circuit miles of underground transmission lines
- 4,000+ circuit miles of distribution lines
- 5,500+ circuit miles of extra high voltage lines
- Design and engineering of 250 new and upgraded substations, adding 350,000 mega volt-amperes (mVA) of transformation capacity to the U.S. electrical grid

IMAGINE NEXT

Our Customers

- U.S. Army Corps of Engineers
- Naval Facilities Engineering Systems Command
- U.S. Department of Energy
- U.S. Department of Labor
- U.S. Postal Service
- Federal Aviation Administration
- Tennessee Valley Authority
- U.S. Customs and Border Protection
- National Grid
- Northrop Grumman
- Verizon
- Conoco Phillips

Project Experience

Photovoltaic and Battery Energy Storage Systems (PV & BESS), DHS, US Customs and Border Protection

Role: Prime Contractor
Location: CA, WA, AZ, TX, WV
Client: DHS Customs and Border Protection
Contract Value: $1.89M

Scope: Parsons is delivering design-pause-build microgrid projects featuring PV and BESS systems at five CBP sites across North America (CA, WA, AZ, TX, WV). These advanced microgrids will provide energy resiliency, serving as templates for future deployments across the CBP portfolio. This initiative is executed under a direct award contract with GSI, leveraging a proven design-pause-build methodology for efficiency and reliability.

Key Highlights:

- Energy Resilience for mission-critical operations
- Scalable Design for future CBP facilities
- Innovative PV & BESS Integration for sustainable power

Blue Grass Chemical Agent-Destruction Pilot Plant

Role: Prime Contractor
Location: Blue Grass Army Depot, KY
Client: Dept. of the Army
Contract Value: $3.8B

Scope: Parsons delivered unmatched expertise in designing, building, and operating the BGCAPP facility for chemical munitions demilitarization. Our innovative approach included a 15-MW microgrid system featuring three parallel 5-MW diesel generators, advanced MV switchgear, and robust civil infrastructure—ensuring uninterrupted power and peak-shaving capabilities for critical operations.

Key Highlights:

- 15-MW Backup Power via integrated DER system
- Islanded Microgrid for maximum resiliency
- Advanced Electrical Infrastructure: MV switchgear, 4,000-amp breakers, and solid-state protection
- Utility Integration: 138-kV coupling point with step-down to 12.47 kV, 4.16 kV, and 480 V
- Battery-Backed Control Power for continuous reliability

Rivanna Station – Generator Replacement Project

Role: Prime Contractor
Location: Charlottesville, VA
Client: USACE, Huntsville
Contract Value: $4M

Scope: Parsons delivered the Rivanna Station Generator Replacement Project. The mission: island a government data center and engineering facility to ensure uninterrupted operations. We replaced outdated generation systems with state-of-the-art gensets, controls, and paralleling switchgear, fully integrated into the facility's cyber-secure Building Automation System (BAS). The system provides 14 days of backup power with N+1 redundancy, operating at 277/480 V via paralleling transfer and peak-shaving techniques.

Key Highlights:

- 14-Day Backup Power with N+1 redundancy
- Automatic Utility-to-Generator Switching within 10 seconds
- Cyber-Secure Integration with BAS
- Advanced Infrastructure: Switchgear upgrades, electronic controls, relays, conduit, and fuel system piping
- Lead-Lag Configuration for optimized performance