

SG Energy Solutions

Capability Statement

People. Power. Passion.

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Who We Are

SG Energy Solutions

Provides electrical, instrumentation & controls, engineering and IT services to clients around the globe.

Our niche is efficiency — implementing systems and processes that reduce costs while delivering safe, exceptional service.

Our goal is client satisfaction — listening from conception to completion to develop effective solutions.



Safety

We won't do it if it's unsafe — and won't let others either.



Energy

We integrate people, power and passion to win.



Accountability

We hold ourselves and team members accountable for everything that we do.



Rapid Response

We mobilize within 24–48 hours when operations are at risk. Period.



Solutions

There is a solution to every problem. We find it.

The Challenge — And Our Answer

Power companies face a relentless set of demands that require specialized, on-demand expertise.

THE PROBLEM

Talent Crunch

Brutal to attract, recruit & retain full-time specialists

System Complexity

Systems to install or upgrade grow more complex every year

Economics

Cost-prohibitive to keep experts on staff 'just in case'

Regulation & Fines

New rules and recovery fines are increasingly costly

OUR SOLUTION



On-Demand Experts

World-class specialists mobilized within 24hrs (US) / 72hrs (worldwide)



Deliver Every Time

On-time, on-budget, with clear and predictable costs



Experts in the Field

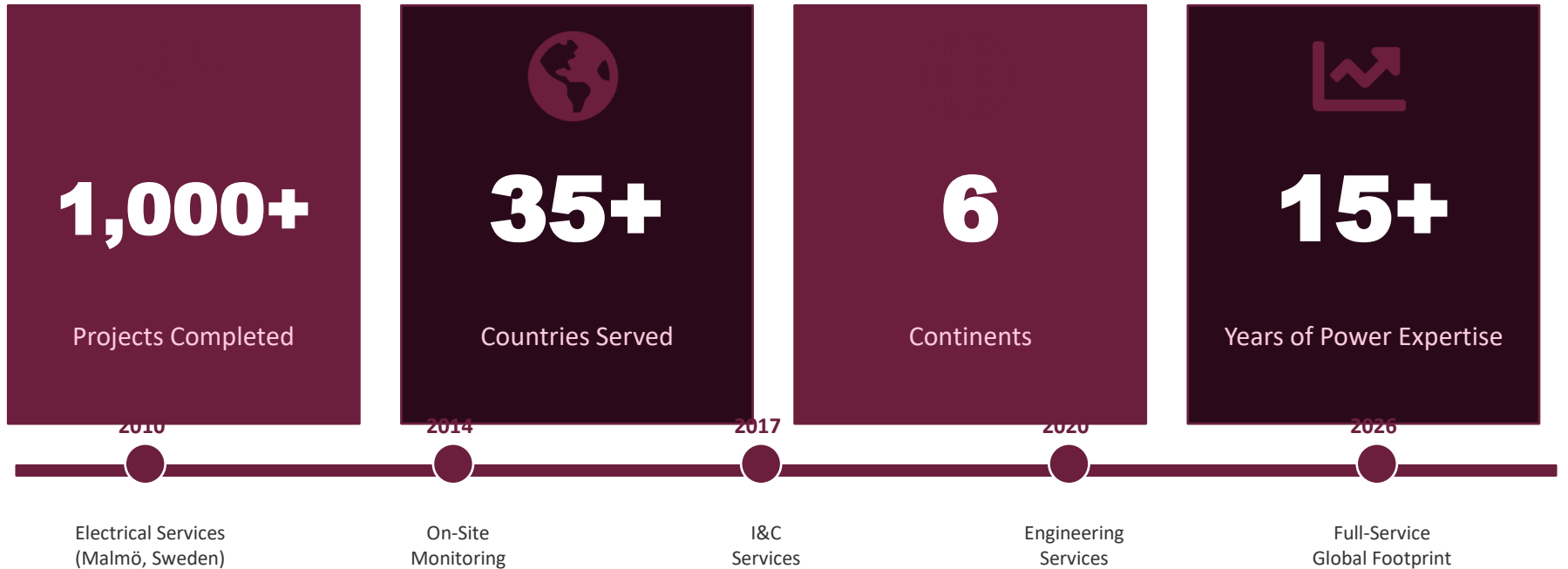
Deep knowledge of installation, maintenance and repair best practices



Safety First

99% of projects start same day as planned or unplanned outage

Experience Is Everything



SG Energy Solutions Geographic Footprint

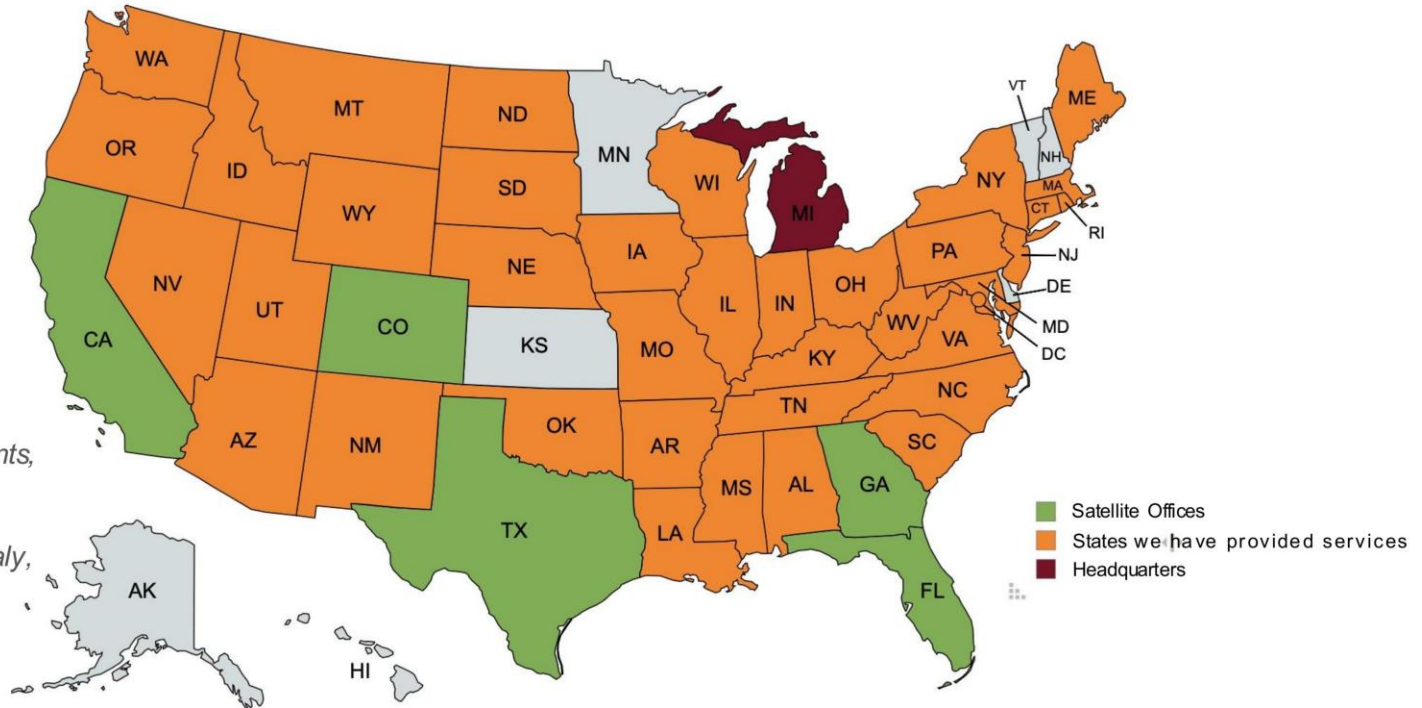
Office Locations

Headquarters

- Southfield, MI

Satellite Offices

- Houston TX | Atlanta, GA |
Longmont, CO | Los Angeles &
West Lake Village, CA |
West Palm Beach, FL



In addition to SG's domestic presence, through SG's varied client relationships, SG has completed projects on 6 continents, spanning over 30 countries. Including but not limited to: Germany, Portugal, Romania, Italy, Turkey, Saudi Arabia, Canada, Mexico, Pakistan, etc.



Capabilities — Electrical & Controls

Electrical Installations

- Low/High Voltage installations
- Aux Panel Terminations
- DLN 1.0, 2.6+, 2.6+e installations
- HAZ GAS System installations
- Combustion Dynamics Monitoring (CDM)
- Gas Turbine 5F, 6F, 7F, 9F electrical
- Gas Turbines (Aero-derivatives)
- Steam Turbine D11, A650
- De/Re-terminations: thermocouples, flame scanners, fuel skids

System Controls

- Mark VIe Migrations
- Mark VIe Excitations & LCI
- Mark VIe Digital Front End (DFE)
- Emerson Ovation
- Programmable Logic Controller (PLC)
- Distributed Control System (DCS)
- Allen Bradley Controls
- Bently Nevada / Baker Hughes Controls
- NEXUS Controls
- Thin & Thick Client (HMI)
- Commissioning

I&C Services

- DCS to PLC Programming
- Calibration: pressure, temp, flow
- Advanced troubleshooting & loop-checking
- Reads wiring diagrams & P&IDs
- Typical instruments: thermocouples, RTDs, vibration probes, pressure & flow transmitters

Capabilities — Engineering & IT

Engineering Services

- Experience with Thermal (gas & steam turbine) and Hydro-driven generators from GE, Westinghouse, Siemens, ASEA, BBC, and Brush
- Deep expertise in electrical testing, mechanical troubleshooting, protective relays, stator/rotor repairs, alignment, vibration analysis & balancing
- 40+ years of generation equipment history — worked in every type of plant and generator
- Electrical and I&C Engineering
- Digital Plant Transformations
- System Integration
- Field Support & Testing
- Project Management
- Network Architect Planning
- Cybersecurity Risk Assessments

IT / On-Site Monitoring (OSM)

- Global experience with OSM installations for fleet upgrades & system configurations
- Basic OSM
- Aero Derivatives (OSM)
- Replica (OSM)
- Digital Control System (DCS)
- Solar Power Battery Installations (OSM)



EV Charging Station Installations

- Siemens Level 2 AC chargers
- Siemens Level 3 DC chargers
- Trenching & location load analysis

Project Profiles

Georgia Power — Plant Scherer

Julett, GA | \$220K | 2018

Baghouse PLC to DCS Conversion

- Demoted Allen Bradley wiring
- Installed Foxboro System
- Updated & redlined all drawings with Engineering

✓ *Completed under budget and ahead of schedule*

Georgia Power — Plant Scherer RAMSorb

Julett, GA | \$800K | Jan–May 2019

Cable Pull & Conveyor System

- Pulled 2T cables over 200' elevated from conveyor to PEECC
- Pulled 17 controller cables to PECC
- Created above-ground pulley system solution

✓ *Completed ahead of schedule and under budget*

Dairyland Rock Gen

Cambridge, WI | \$1.1M | Spring 2024

Electrical Installation Services (30 days)

- Fiber optic cable pulls
- Exciter & Mark VI-e installations
- LCI cross-over, fuel skid PLC replacement
- EX2100e DFE installation

✓ *Completed on time*

HL Colbreath — Teco Bayside

Tampa, FL | \$1.2M | Spring 2024

Major Inspection & Upgrades (90 days)

- De-turn & re-term electrical devices on 7FA roof bearings across 4 units
- Pulled cable, ran conduit
- Mark VI-e system control upgrades

✓ *Completed on schedule*

LADWP

Los Angeles, CA | \$1.5M | Spring 2024

Major Inspection, Mechanical & Electrical

- Technical direction & FE services
- Millwright, electrical & mechanical engineering

✓ *On time and within budget*

Fort Saint Vrain Generating Co.

Denver, CO | — | 2020

COVID-era outage resolution

- Remote installation of wiring and conduit runs from turbine to control panel
- 2.6 Plus Mark VI-e System with Haz-Gas
- No on-site support available

✓ *Outage resolved, power restored*



2010 • MALMÖ, SWEDEN

On 7 days notice, SG mobilized a team to install a CDM for a 9F Gas Turbine — completing the job 2 weeks ahead of schedule.

Result: 2 weeks early | First international project | Completed under budget



GUDDU, PAKISTAN

Deployed with limited resources and installed
2 CDM Systems for two 9F Gas Turbines —
working hand in hand with local and Chinese
electricians.

Result: On schedule | Cross-cultural team coordination | Zero incidents

MCKITTRICK, CA • LA PALOMA GENERATING

With minimal training time, completed a full electrical and mechanical upgrade on a GT24 Gas Turbine in 85 days.

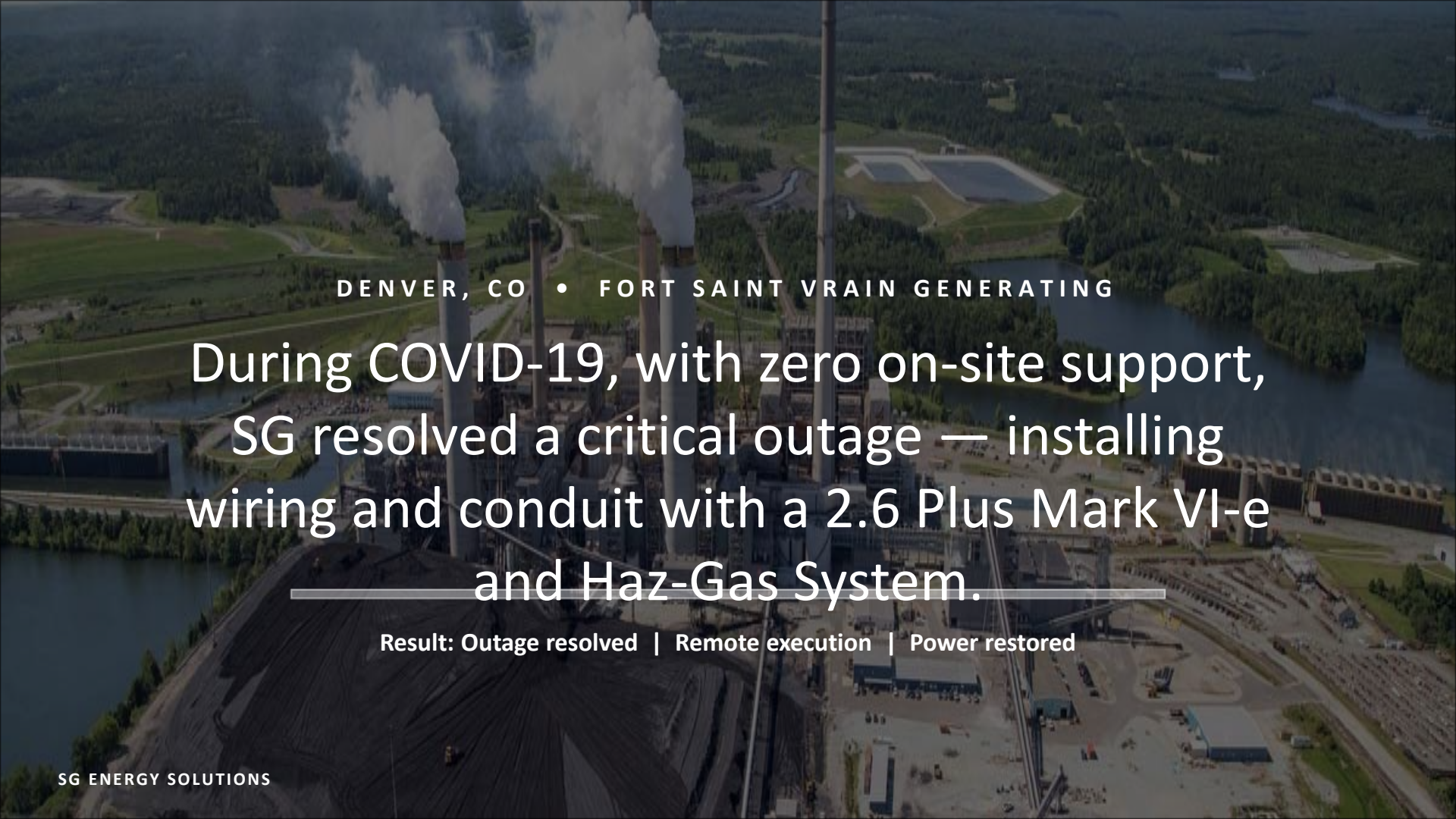
Result: 85-day delivery | Minimal onboarding | Completed on budget

The background image shows the Hermiston Generating Station in Portland, OR. It features several tall, cylindrical cooling towers on the left side. In the foreground, there is a sign for Calpine Energy Services. An American flag is visible on the right side of the image. The sky is clear and blue.

PORTLAND, OR • HERMISTON GENERATING

Started pre-installation while the steam turbine was still operating — completing electrical wiring and conduit on a 7FA Gas and Steam Turbine, shaving time and costs.

Result: Parallel execution | Zero downtime disruption | Ahead of schedule



DENVER, CO • FORT SAINT VRAIN GENERATING

During COVID-19, with zero on-site support,
SG resolved a critical outage — installing
wiring and conduit with a 2.6 Plus Mark VI-e
and Haz-Gas System.

Result: Outage resolved | Remote execution | Power restored



2018 • SOUTHERN CALIFORNIA • SC EDISON

SG helped SC Edison contain the Woolsey Fire
and installed remote monitoring systems to
prevent future outages.


Recovery: 3 days | Savings: \$500M | Remote monitoring deployed



2022 • TEXAS • TEXAS ELECTRIC

A team of 12 mobilized during the historic deep freeze to recover Texas Electric's generating capacity and restore power to 1 million customers.

Recovery: 5 days | Savings: \$1.2M | 1M customers back online



MANZANILLO, MEXICO

SG worked alongside the local team to commission a CDM system — training 12 local team members and restoring power to 1.5M customers.

Recovery: 5 days | 12 local team members trained | 1.5M customers online

SG Energy Solutions Existing Clients

Clients that SG has served as tier 1 and/or tier 2 supplier.



WE LOOK FORWARD TO SERVICING SOUTHERN COMPANY!



Contact Us

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1,000+

projects completed
across 35 countries
on 6 continents

*"We don't react to problems.
We anticipate them."*