# Federal Energy Modeling and Analysis Capabilities

Griffin EnerG Consulting

Griffin EnerG Consulting LLC helps federal prime contractors, ESCOs, architecture and engineering firms, and facility teams evaluate building energy performance and the economics of energy improvements. Our remote services include whole-building modeling and calibration, energy conservation measure analysis, life-cycle cost analysis, compliance support, and independent model review.

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## Core Capabilities

- Whole-building energy modeling and calibration
- Energy conservation measure evaluation and comparisons of building systems
- Life-cycle cost and financial viability analysis
- Independent energy-model review and QA/QC
- Energy-code and Federal Guiding Principles compliance support
- Energy modeling and whole-building life-cycle assessment support for LEED

## Relevant Federal Experience

### GSA Central Office Building | Washington, D.C. | Approx. 858,000 SF

Developed and calibrated a whole-building energy model to evaluate energy conservation measures and project economics during Preliminary Assessment and Investment-Grade Audit activities. Support provided to CEG Solutions.

### National Building Museum | Washington, D.C. | Approx. 260,226 SF

Developed and calibrated a whole-building energy model to evaluate energy conservation measures and project economics during Preliminary Assessment and Investment-Grade Audit activities. Support provided to CEG Solutions.

### Hill Air Force Base Building 1573 | Utah | Approx. 100,000 SF

Provided Guiding Principles Compliance support, including evaluation of photovoltaic, solar thermal hot-water, and alternative HVAC configurations.

### Bureau of Reclamation Post-Occupancy Evaluation | Pleasant Grove, Utah | Approx. 9,260 SF

Analyzed measured performance, identified operational trends and performance gaps, and evaluated opportunities to improve energy performance.

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## Why Prime Contractors Work With Griffin EnerG Consulting

- Principal-led technical delivery
- Remote delivery using design documents, utility and interval data, BAS trends, photographs, and virtual site walks
- Structured QA/QC of model inputs, calibration, ECM interactions, life-cycle cost calculations, and reporting consistency
- Support for Preliminary Assessments and Investment-Grade Audits
- More than 1.2 million square feet of directly relevant federal project experience

## Tools, Standards, and Credentials

### Software and Tools:

EnergyPlus • eQUEST • NIST Building Life Cycle Cost (BLCC) • Excel • ENERGY STAR Portfolio Manager

### Standards and Methods:

ASHRAE 90.1 • NIST Handbook 135 and FEMP life-cycle cost procedures • Federal Guiding Principles for Sustainable Federal Buildings • Applicable UFC energy requirements

### Team Credentials:

ASHRAE Building Energy Modeling Professional (BEMP) • Green Globes Fellow • Living Future Accreditation • Registered Architect

## Contracting Information

Griffin EnerG Consulting LLC | Small Business | Established 2018
SAM.gov registration: Active | NAICS: 541690, 541330, 541620 | PSC: B543, R425, B540, B505

### Professional Liability Insurance:

$1 million per claim / $2 million aggregate.

### Cybersecurity:

GEC is implementing a dedicated cybersecurity enclave to support future Department of Defense assignments involving Federal Contract Information and Controlled Unclassified Information.

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