



ELECTRICAL ENGINEERING & DESIGN

Electrical Engineering for Energy Infrastructure

BOW Consulting Group delivers integrated permitting, environmental, and engineering services for C&I, DG, and utility-scale energy projects nationwide.

We support solar PV, battery energy storage (BESS), and on-site energy infrastructure solutions supporting data center development from early site diligence through IFC-ready design and construction support - helping developers, investors, utilities, and contractors reduce risk, control costs, and advance projects with confidence.

How We Work

- Integrated engineering, permitting, and environmental teams
- Deliverables aligned with development stage and investment milestones
- Dedicated internal project management from feasibility through construction

Why BOW?

BOW provides full-lifecycle project support grounded in a development-driven engineering mindset.

With nationwide experience assisting energy projects, we deliver practical, financeable solutions designed to move projects efficiently from concept through construction.

Professional Services

Site Diligence & Feasibility

- Hosting capacity & grid infrastructure proximity analysis
- GIS-based constraint mapping and easement evaluation
- Transmission Corridor Assessment
- Preliminary layout coordination & fatal flaw identification

Interconnection & Utility Coordination

- Queue strategy & application preparation
- Interconnection-ready electrical design packages
- Utility coordination & milestone tracking

System Design & Optimization

- Equipment selection, energy modeling & system optimization
- Storage sizing and dispatch strategy
- Permit-level engineering plan set
- Permit hearing attendance and on-site support

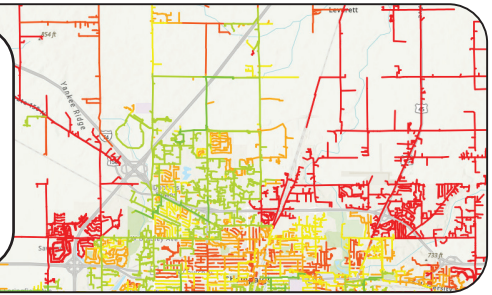
Construction & Post-COD Support

- RFI review & contractor coordination
- Construction-phase technical support
- As-built documentation
- O&M advisory services

01

Interconnection & Grid Advisory Site with Intelligence

By utilizing the latest utility datasets and industry leading AI tools, BOW is able to identify areas with capacity and decrease expected upgrade costs. Our integrated GIS team can then create maps and target areas making site identification quick and easy.



Permitting Experts Documentation Made Simple

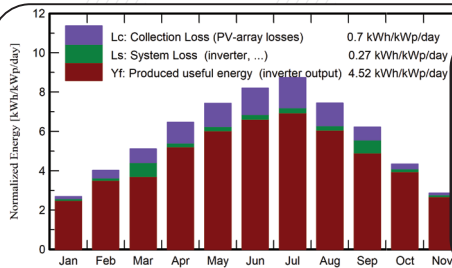
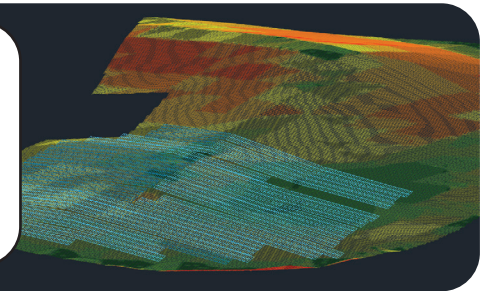
BOW supports developers through the permitting process by preparing permit-ready engineering plans, coordinating with local authorities, and assisting with technical documentation. Our team works closely with project stake holders to streamline approvals and keep projects moving towards construction.

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Optimized Layout Design Smarter Site Layouts

BOW Consulting Group evaluates site conditions, grid access, and infrastructure limitations to design efficient solar PV and energy storage layouts that maximize performance while reducing development risk. A sensitivity analysis is created and optimized to ensure the project reaches its highest potential revenue target.



Performance Modeling Maximizing Project Revenue

BOW provides detailed performance modeling to estimate system output, energy yield, and long term project performance. Using advanced modeling tools and industry best practices, we help clients understand expected generation, optimize system design, and support financial modeling exercises.

04

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Electrical Design From Concept to Construction

BOW is able to deliver engineered plan sets from early stage interconnection through those needed for construction (IFC). Our engineers develop practical, valued engineered designs for PV and BESS projects that meet utility and national standards including collection systems, grounding protection coordination, and grid tie equipment.

