

GE ENERGY CONSULTING

Power Economics



100+ years of experience helping our clients achieve their goals, from constructing the Hoover Dam to achieving 100% Renewables targets

Who We Are

The Power Economics practice within GE Energy Consulting provides objective policy, planning, and investment decision analysis to help you make complex energy asset decisions while reducing risk and improving value. Our experts analyze electric power market conditions, power system dispatch and operations, and energy policy implications. Backed by more than 100 years of experience, we help you make strategic planning decisions in an uncertain world.

Today's global energy marketplace is evolving rapidly. Decisions must be based not only on technical considerations but also on a range of economic, regulatory, and environmental drivers.

Clients

Our job is to help utilities, generation owners and operators, project developers, investors, and energy consumers work through these issues and harness growth opportunities, including decarbonization efforts throughout the world.

Practice Areas

Transmission and Generation Asset Valuation

- Transmission Planning and Cost Benefit Analyses
- Congestion Risk Assessment
- Transmission Strategy and Competitive Transmission
- Asset Siting Analysis
- Transmission System Modeling
- Generation Asset Valuation
- Transmission-Related Market Power Concerns

Resource Planning

- Market Price Projection (20-Year Hourly Nodal Locational Marginal Pricing [LMP] forecasts)
- Integrated Resource Planning
- Renewable Integration
- Distribution Energy Resources (DER) Integration & Analysis
- Microgrid Techno-Economic Analysis and Design

Resource Adequacy

- Resource Planning to Meet Future Energy Demand
- Analysis of Capacity Value of Renewable Energy
- Advanced Studies of "Edge" Technologies: Storage, Demand Response, Distributed Energy
- Planning Reserve Margin Studies
- Design of Capacity Markets

Electricity Market Design, Assessment, and Analysis

- Asset Strategy & Operational Optimization
- Capacity Market Modeling & Design
- Demand Response Program Analysis
- Energy and Ancillary Service Markets and Market Designs
- Analysis of Energy and Environmental Policy Impacts
- Probabilistic Reliability Modeling
- Regional Electricity Wholesale Market Development
- Energy Storage Integration within the Power System
- Variable Resource Integration and System Flexibility Needs Analysis
- Power Sector Environmental Impact Analysis and Greenhouse Gas (GHG) Policy Evaluation
- Power System Impact Analysis

With more than 40 country grid models that cover over 50% of the world's generation, our professionals from around the globe offer expertise in a suite of production cost modeling, reliability, and power flow software.

Let's make history together as we build the grid of tomorrow.

For more information visit:
www.geenergyconsulting.com

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