

Power Economics

To succeed in the evolving global energy marketplace, utilities, plant owners, operators, designers, investors and energy consumers must base their decisions not only on technical considerations, but also on a range of economic and regulatory drivers.

The Power Economics team provides policy, planning and investment decision expertise to help you make complex energy asset decisions while reducing potential risks. We analyze electric power market conditions, system dispatch and operations, and energy policy implications to help you make strategic planning decisions in today's often uncertain world.

Policy and planning

Drawing on our knowledge of power system engineering and operations, our consultants develop analytical models that reflect power system fundamentals to give you a better understanding of market dynamics and mechanisms. These analyses factor in the effects of new regulations that may alter the boundaries of traditional electric utilities, expand power system infrastructures, and increase constraints on fuel, emissions and water. A tool essential to this study work is GE's proprietary Multi-Area Production Simulation (MAPS*) software, which has become an industry standard in the U.S. for accurately analyzing the complex interaction between generation and transmission. Our team is also proficient with other sophisticated power system analysis tools commonly used in the electricity sector.

Investment decision analysis

The Power Economics team provides assessments that include the commercial and technical fundamentals of the electric power marketplace such as supply and demand; energy, capacity and ancillary services structures and prices; and spark spreads. These analyses can help guide you in: generation, transmission and distribution plant decisions that can result in billions of dollars in investments annually; design and implementation of demand response programs; purchase and finance opportunities for new and existing assets; policy impact; and relevant power market structure, design and implementation.



Recent projects

Our clients include electric utilities, plant owners and investors, project developers, independent system operators, and regulatory and research groups. We have recently performed:

- Renewable integration studies
- Plant owner investment decision analysis
- Projected coal plant retirements due to U.S. Environmental Protection Agency policy
- Integrated generation, transmission and demand-side resource planning
- Interaction of distributed solar resources
- Electric vehicle deployment and energy storage
- Sustainability studies
- Net zero energy communities analysis

These studies offer insights into expected power system operations and costs, as well as the value of power produced, to help you understand the impact on the overall project. Scenario analyses identify your benefits while examining the potential effects of such items as new regulations, competitor activity, and changes in fuel price or availability.

For more information visit us online at
www.ge-energyconsulting.com

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