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ENERGY MARKETS GROUP

# Energy Portfolio Advisory Services

Strategies with actionable results.



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# Experienced professionals, proven solutions, trusted results.

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## The changing resource planning landscape

The range of issues that the resource planner has had to incorporate into their process has changed dramatically over the years. From the mostly-straightforward “least cost planning” process of the 1970s and early 1980s, through the addition of energy conservation and other “demand side management” programs in the 1980s and 1990s, as well as the ever-changing impacts of the Clean Air Act, increasing numbers of options available from the market, and renewable generation options and mandated Renewable Portfolio Standards (RPS), the complexity of the resource planning process has continued to increase at an accelerating pace.

Today’s resource planner has to take into account the real and potential impacts of MACT and BACT emissions regulations, on-again/off-again carbon legislation, generation technology efficiency improvements, increased utilization of natural gas, increased focus on renewable generation and DSM, changing RPS requirements, societal pressure and customer preferences, demand response (DR) options, and stochastic risk analysis. Resource planners are making billion-dollar decisions while legislative, regulatory, and technological conditions are changing rapidly, so there is a lot of uncertainty and risk.

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Through all these changes, the ABB Advisors have been here, providing guidance and insight to customers.

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## Integrated resource planning advisory

With more than 35 years of experience assisting clients across the country, ABB Advisors are ready to assist you with your resource planning needs. Along with a comprehensive toolbox of best-in-class software to help address your challenges, ABB Advisors have the experience to help you build a comprehensive and defensible resource planning process that incorporates all the requirements of your corporate, public stakeholder and regulatory environments.

ABB Advisors employ valuation models covering both power and gas portfolios and using state-of-the-art methodologies to rigorously model even the most complex portfolios. Stochastic valuations help corporate decision makers and risk managers understand the risks associated with specific market positions. Portfolio analytics solutions are widely accepted by both state and federal regulators.

ABB Advisors portfolio valuation models offer a complete representation of contractual positions and physical assets, taking into account operating constraints such as start costs, minimum and maximum operating levels as well as a full range of other operating constraints.

Advisory services include:

- Strategic planning
- IRP and request for proposal (RFP) analysis
- Decision analysis
- Expert system and resource optimization modeling
- Scenario and sensitivity development
- Project development and management
- Process design and implementation
- Expert witness
- Independent evaluator/consultant
- Process review and evaluation

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## Independent evaluator services

ABB Advisor consultants review and comment on client competitive bid process for the solicitation, solicitation outreach, evaluation, and selection methodology, provide feedback to client of its evaluation and selection methodology, and report its findings to the appropriate Public Utility Commission or regulatory authority.

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## We're here for you

ABB is a trusted advisor on power markets, energy fuels strategy, fuel fundamentals and energy portfolio risk. ABB Advisory Services help our clients turn their energy markets strategies into actionable results. ABB offers a unique combination of software, data and advisory services to provide market-leading solutions for fundamental analysis. Our advisory team comprises experts, with detailed knowledge of both the latest market developments as well as how to model and analyze them.

ABB has a wealth of tried-and-tested models, datasets, out-of-the-box market forecasts and modeling methodologies to start from, so we can help our clients quickly and cost-effectively. Our business model is very flexible: We can offer independent market views, be your "on call" modeling team, or help your in-house team solve complex problems through the use of our tools, data and experience.

Use ABB Advisory Services to provide:

- Thorough and continual assessment of regional and international energy markets
- Independent valuation of assets for buying, selling and risk management
- Custom analysis of congestion, pricing, wind and solar siting
- Evaluation of future uncertainties and scenarios
- Verification of your own results
- Resource adequacy at the lowest cost while meeting new regulatory requirements
- Rate case/regulatory support and testimony
- Independent evaluator services
- Staff augmentation

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## Benefits

Key benefits include:

- Accurate generation and fuel forecasting using rigorous dispatch logic from one month to 30 years
- Complex structured energy and fuel contract evaluation
- Scenario analysis to perform "what if" analysis, with stochastic simulations to provide a wide range of potential outcomes
- Gross margin for individual assets and full portfolio





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