

## Renewable Energy Resources, Distributed Generation, & Combined Heat and Power Services



GDS provides expertise in addressing the complex economic, engineering, scientific, and governmental issues associated with renewable and other distributed generation resources that impact utilities, government agencies, developers, and their customers. Renewable Resource Portfolio Standards assessment and development, Integrated (renewable, fossil-fueled and energy efficiency technology) Resource Planning support, feasibility and market potential studies, expert testimony, rate impact analysis, and renewable risk assessments are just a few of the valued services offered by our expert staff of policy strategists, engineers, and analysts.

We have solid experience in numerous distributed generation and renewable energy resource areas including:

- Resource Assessment and Development
- Development of Renewable Resource Portfolio Standards
- Technical Support
- Feasibility Studies
- Market Assessment Studies
- Resource Procurement
- Business and Regulatory Support
- Expert Testimony



We are committed to environmental stewardship and maintain up-to-date information and expert knowledge of traditional and evolving distributed generation and renewable resource technology, economics, utilization options, and operating characteristics. Combining green power options such as wind-generated or photovoltaic electricity with conventional energy resources offers commonsense, long-term solutions for customers and utilities and helps to ensure a more stable energy future.



## RESOURCE ASSESSMENT, PROJECT DEVELOPMENT SUPPORT, AND FEASIBILITY STUDIES

Rapidly advancing technology requires up-to-date knowledge within the field of distributed generation, combined heat and power, and renewable energy resources. GDS provides resource identification and assessment support for numerous green power and distributed generation technologies. Services include: feasibility/cost-effectiveness studies; technology baseline assessments; market and technical potential analyses; and energy/dependable capacity estimation from hard to quantify, often intermittent, resources. Each of these services represents an important step toward development of solutions to local and regional transmission/distribution system constraints and a sustainable renewable power generation market/infrastructure.

## TECHNICAL SUPPORT

Utilizing renewable resources, such as wind and solar power, and combined heat and power, fuel cells, microturbines, and other distributed generation technologies can create unique issues with the potential to substantially impact existing utility power grids, base rates, and project economics. GDS provides clients with timely and cost-effective strategies for developing and navigating through interconnection guidelines, stand-by and back-up policies, net metering issues, etc. that arise through integration of these generation resources within the utility system.

## RESOURCE PROCUREMENT

A professionally developed request for proposals (RFP), prepared with the assistance of GDS, sets the stage for successful incorporation of distributed generation resources into a utility's energy supply portfolio. The concept of "reverse RFPs" (i.e., where merchant power plant developers issue an RFP to utilities for bids on purchasing power from their generating facilities) is also increasing in popularity. Later phases of procurement require careful evaluation of proposals, contract negotiation, and often, stranded cost mitigation/renegotiation of older, high-priced power-purchase contracts. Our staff has solid experience in all of these areas. We can assist with developing and issuing RFPs, as well as evaluating responses to an RFP and negotiating/renegotiating contracts with successful bidders.



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