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## Demand Response

**Demand response** is the proactive management of electric and gas utility loads to more efficiently and reliably market, produce, transmit and deliver energy. Applications of demand response can be as simple as a utility interrupting load in response to severe demand fluctuation or as complex as millions of customers voluntarily reducing their load in response to price signals. **Program design, rate structure and customer participation** have a tremendous influence on the success or failure of demand response initiatives. A number of drivers, most notably the U.S. Energy Policy Act of 2005, have focused attention on dynamic pricing and demand response programs and the needed to support them.

EnerNex has experience in all aspects of demand response, advanced metering and pricing programs. Our expertise ranges from analyzing and developing **new technology** to developing business cases and **cost-benefit analyses** and includes creating and facilitating **industry-wide initiatives** that coordinate demand response requirements and help influence public policy.

EnerNex is the pre-eminent engineering consulting firm for **demand response**.

## DR Services

*EnerNex provides a wide array of engineering and consulting services geared towards smart implementation of demand response. This covers all phases of Demand Response project development, including:*

- ▶ **Policy Development**
- ▶ **Business Case Modeling**
- ▶ **Assembling Functional Requirements**
- ▶ **Conceptual Architecture Creation**
- ▶ **Trade-Off Analysis**
- ▶ **Reference Design Construction**
- ▶ **Performing Technology Assessments**
- ▶ **Project Management Support**
- ▶ **Product Testing and Vendor Evaluation**
- ▶ **Systems Integration Support**





# Demand Response

## EnerNex Expertise

We offer our clients a unique combination of expertise in **demand response program design**, utility system architecture, power systems engineering, communication network design, utility business practices, energy product markets, and a fundamental understanding of policy and its impact on the operation and reliability of the electric power grid. Our synergistic combination of **technical, regulatory and policy knowledge** enables us to offer customized services in all aspects of demand response.

EnerNex has experience with all the major components associated with **demand response**, including:

- *Time-Based, Critical Peak, and Real Time Pricing Programs*
- *Load Control/Curtailment*
- *Integrated Outage Management and Demand Response*
- *Demand Response for Maintenance Purposes*
- *Advanced Meter Infrastructure (AMI)*
- *Automated Meter Reading (AMR)*
- *In House and Third Party Programs*
- *Billing and Customer Information Systems*
- *Customer Interfaces and Engagement*
- *Telecom and Network Communication*
- *Integrated Advanced Distribution Automation and Metering System*
- *Distributed Energy Resources*
- *Energy Procurement*
- *Asset Installation and Maintenance*
- *Program Review and Benchmarking*

## Our Services

*EnerNex is a research, engineering, and consulting firm specializing in the development and application of new electric power technologies. Our focus is to aid in the understanding and solution of electric power related issues, as well as the development of technology and expertise that will ultimately improve the operation and reliability of electric power systems. We offer services organized around these areas of emphasis:*

- ▶ **Power Systems Analysis**
- ▶ **Wind Integration**
- ▶ **Information Security**
- ▶ **Systems Monitoring & Analysis**
- ▶ **Testing and Research & Development**
- ▶ **Smart Grid Development**
- ▶ **Advanced Metering Infrastructure**
- ▶ **Utility Communication Architecture & Implementation**
- ▶ **Utility Automation**
- ▶ **Demand Response & Energy Efficiency**

