

Are you prepared for all of the changes on the horizon?

Utility Consulting Services from Schneider Electric

Make the most of your energySM

Schneider
 **Electric**TM

Utilities are facing enormous pressure ...



... to manage an uncertain future, comply with government regulations, and supply safe, reliable, high-quality electricity at a reasonable cost to all customers.

Aging Infrastructure

- > The electrical distribution system in the U.S. is aging and requires strategic reinvestment to meet increasing customer demands
- > 48% of electric utilities cite an aging infrastructure as their top challenge

Skilled Workforce on the Decline

- > U.S. utilities have experienced staff reductions in the last 20 years
- > Talent gap due to an increasing retirement-eligible workforce

New Technology and Distributed Energy Resources (DER)

- > 67% of utilities state they should take a direct role in supplying distributed generation to customers as it would open up a new avenue of utility revenue
- > Utility staff may not have the necessary experience

Financial Impact on an Evolving Industry

- > Investment in infrastructure will be driven by a flat load growth and the resulting effect on rates
- > 65% of electric utilities recognize the need to develop a new business model to combat declining demand growth

Sustainable Growth and Environmental Impact

- > Effects of impending carbon legislation
- > Increases in renewable generation result in business and operational integration complexities

Let our experienced team of utility consultants, guide you through these changes. We will work with you to:



Analyze your utility's evolving landscape



Help set strategic goals for the utility



Assess your technical infrastructure



Provide a direction and roadmap to "future-proof" your electric utility

Utility Consulting Services

Are you prepared? The grid of tomorrow is no longer comprised of individual parts. It is a resilient, responsive, seamless system that supports all aspects of a utility's operations.

Our **experienced team** of utility consultants can help equip your utility for the future.



Electric Utility Strategy Development

Delivers a long-term plan designed to mitigate risk and maximize value to your community.

- Manages the cost of a utility's power and distribution, including demand charges
- Ensures ongoing, reliable power supply to customers
- Supports the economic development goals of customers
- Provides a view on the environmental impact of the utility and delivers options to drive sustainability at a local level
- Engages the community throughout the strategic planning process to enable ongoing communication with stakeholders

Benefits

- Improves long-term supply/demand planning to lower costs
- Enhances reliability and resiliency
- Fosters economic development and local sustainability
- Promotes customer and community relations
- Provides leadership in the municipal utility space

Technology Strategy and Roadmap

Examines the information and operation technology program and makes recommendations for a three-year plan.

- Identifies deficiencies and constraints of the current information and operation technologies
- Prioritizes information and operation technology investment to align with strategic plan
- Improves the utility's adaptability to business environment and prepares the utility to readily adopt new business models

Benefits

- Improves reliability and resiliency
- Enhances customer service
- Increases situational awareness
 - » Enables faster and efficient restoration
- Lowers cost of ownership for technology
 - » Prioritizes technology spend
- Increases operational efficiencies and lowers costs
- Complies with regulatory requirements

Distributed Energy Resource Planning (DER)

Determines the costs and benefits of a growing DER base in a utility's area.

- Analyzes business, regulatory, and technical implications of an increase in distributed energy that utilities must manage
- Builds a utility financial and technical impact analysis and associated action plan
 - » Includes technical support, an action plan, and training to prepare for DER integration
- Determines necessary changes to price and regulation

Benefits

- Provides the costs and benefits of a growing DER base in a utility's territory, as well as the societal impact (economic, environment)
 - » Analysis incorporates DER best practices, thought leadership, and findings of NY Public Service Commission report

Microgrid Impact Study

Assesses the impact of a microgrid on an existing electric power system.

- Provides a readiness report for a microgrid based upon operational, technical, business, and regulatory processes and practices
- Reviews the effects of the microgrid on different operating conditions of the electric power system
- Examines methods to minimize cost, improve renewable energy utilization efficiency, and maximize profits

Benefits

- Identifies gaps and makes recommendations on systems and communications needed to fully integrate a microgrid

Why Choose Utility Consulting Services from Schneider Electric?

Our Utility Consulting Services are delivered by energy experts, not general consultants. We serve as trusted advisors to utilities to help them meet their current needs as well as plan for a changing future.



Our Utility Consulting team brings a breadth of skills in utility strategy and planning, financial analysis, regulatory issues, as well as technical roadmaps and evaluations in the Smart Utility space. These include: Grid Modernization, Distributed Energy Resource Integration, Microgrid Planning; Grid Resiliency; and Distribution Reliability.

They are supported by a national network of over 100 professional engineers who are collectively registered in every state of the U.S. Having a power system engineer close by assures familiarity with authorities having jurisdiction, local codes and standards, utility systems, and operations.

For more information:

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