



Smart Grid Services

Now that the hype surrounding smart grid is subsiding, it's time utilities transitioned from grand aspirations to actionable deployment strategies, using intelligent grid technologies to create practical value for customers and investors. **MetaVu Smart Grid Services are at the leading edge of the evolution of the smart grid.** Our valuation capabilities and comprehensive insights help utilities create grid deployment roadmaps and inform strategies that are based on technical realities, regulatory frameworks, competencies, and customer profile.

We optimize smart grid benefits at any stage of deployment and *Create a Return on EnvironmentSM* by delivering the following services:

- Meta-analysis of emerging performance standards and measurement frameworks
- Smart grid vision, strategy and roadmap development
- Implementation performance diagnostic
- Customer product and service strategy and business model development
- Change management planning
- Measurement, valuation, and reporting
- Deployment benchmarking and workshops

Industry Challenge

In a fast paced and rapidly evolving business climate, utilities must answer the following questions before considering their desired grid capabilities and enabling systems:

- How can utilities ensure they are making low risk smart grid investments?
- What will the retail electricity market look like in the future?
- How will a utility role be different and how will they create and capture value?
- How and when will legislation and regulation impact the retail electricity market?
- What energy-related technologies will consumers adopt and how quickly?
- How should a utility's outlook on these questions influence the grid capabilities and technologies selected?

Examples of our Work



Boulder, Colorado SmartGridCity™ project evaluator



Duke Energy Ohio SmartGrid deployment operational audit and operational benefits assessment consultant

MetaVu Solutions

Numerous smart grid projects are demonstrating that all of the most commonly referenced capabilities are technically feasible. MetaVu will help answer the following questions:

- What smart grid capabilities make the most sense to enable?
- What are the economic, environmental, reliability, and satisfaction benefits available?
- How do benefits differ from customer and shareholder perspective?
- What combinations of technologies should be utilized to enable targeted capabilities?
- What capabilities should be rolled-out universally, and which selectively?
- What organizational challenges will the deployment of smart grid capabilities entail?

As utilities make smart grid decisions that cost millions of dollars to implement and shape utility roles and business models for decades, invest in a body of knowledge prior to a set of systems.

MetaVu Quattro ModelSM

MetaVu has developed a proprietary tool, the Quattro ModelSM, to evaluate operational and organizational implications of complex system implementations.

Organizational Strategy and Structure

- Changing asset roles and capabilities may necessitate organizational and operational changes
- Increased use of technology in the field must be supported

Process and Governance

- Field communications equipment must be considered when operating, configuring, or upgrading the electrical network.
- Improved data resolution and availability enables new business models, operating norms, and product offerings

Systems and Tools

- Smart and traditional systems will need to be operated simultaneously
- Business functions will identify more uses for data and become more reliant upon it

Organizational Capabilities

- Technology advances will require upgrades to human capital, skills, and competencies
- Budget increases in some areas must be offset by budget cuts in others

About MetaVu

MetaVu is a recognized leader in sustainable business development, helping companies innovate their products, services and business models employing sustainability as a strategy for value creation. The firm provides business advisory services and performance measurement products to help companies realize the economic benefits of managing energy, environmental and social issues from a business perspective.

For a no-obligation consultation on your utility's smart grid initiatives and strategies, or to participate in one of MetaVu's Smart Grid benchmarking surveys at no cost, contact Paul Alvarez, MetaVu Principal and Utility Practice Leader, at 303-679-8340, or at pja@metavu.com.