



SMART GRID SOLUTIONS FOR UTILITIES

For almost a decade MetaVu, a leading management and strategy consulting firm focused on the nexus of energy and the environment, has been delivering exceptional value to blue-chip clients.

Stakeholders want to know: what benefits are smart grid investments delivering?

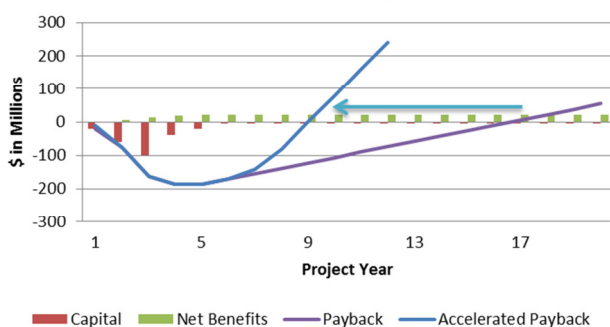
Utilities implementing large smart grid deployments are now being confronted by high stakeholder expectations and the integration and optimization challenges associated with new grid capabilities. Investor-owned utilities are particularly concerned with growing regulator interest in incorporating smart grid-related performance measures into ratemaking processes.

Separately, utilities planning smart grid investments are attempting to learn from the experiences of those who have gone before them, developing grid visions and plans that maximize value per capital dollar and minimize risk.

Regulators and customers are demanding that grid investments deliver on lofty expectations, including:

- > Reductions in O&M costs, fuel costs, and environmental impact.
- > Increases in reliability and customer options.

How to Accelerate Payback?



MetaVu offers best-in-class smart grid strategy consulting and independent performance evaluation services.

The Opportunity

Utilities of all types have the opportunity to document value, maximize benefits, optimize investment plans, and reduce risk through the use of unbiased experts to help shape strategy and evaluate performance. Expert perspectives are particularly insightful and reliable when based on an understanding of smart grid value creation derived from detailed evaluations of multiple smart grid deployments.

MetaVu helps utilities capture the opportunity to meet or exceed regulator, customer, and shareholder/stakeholder expectations by:

- > Identifying and evaluating opportunities to maximize the value of smart grid capabilities.
- > Exploring and prioritizing options to seize available opportunities.
- > Establishing organizational, operational, technical, and market development plans.
- > Executing development plans and documenting and reporting benefits.
- > Engaging customers and communicating benefits to stakeholders.

MetaVu Smart Grid Solutions

MetaVu is at the leading edge of the evolution of the smart grid. Our understanding of the manner and methods by which smarter grids create value helps utilities establish grid development roadmaps based on technical realities, regulatory frameworks, utility competencies, and customer profiles.

MetaVu helps utilities identify and evaluate opportunities to maximize the value of smart grid capabilities by offering:

- > **Grid Modernization Strategy and Planning**
 - Technology and market assessments and related strategic implications to the utility.
 - Strategy development, including grid visioning and capability prioritization; technical design and specifications; implementation planning; and business case development.
 - Business process and change management to align organizations with smart grid systems and capabilities.
- > **Smart Grid Investment Performance Evaluation**
 - Benefits and performance metrics measurement.
 - Organizational maturity assessment.
 - Customer engagement diagnostic.
 - Standards and practices assessment.
- > **Custom Performance Evaluation Workshop**
 - A one-day seminar on emerging best practices in smart grid design, implementation, and evaluation.

About MetaVu

For almost a decade MetaVu, a leading management and strategy consulting firm focused on the nexus of energy and the environment, has been delivering exceptional value to blue-chip clients. Specializing in energy-centric industries with large environmental footprints including oil and gas, electric utility, forest products, consumer products, chemicals, and manufacturing, the firm maintains a 100% client satisfaction record. Visit www.metavu.com for more information.

For a no-obligation consultation on your utility's smart grid deployment performance, please contact **Paul Alvarez, Utility Practice Leader, at pja@metavu.com**.

Foundations in Emerging Standards

MetaVu's services are designed, delivered, and updated from a foundation in the most respected emerging standards available, including:

- > EPRI's methodology for cost/benefit assessment.
- > Carnegie Mellon/NETL/DOE's Smart Grid Maturity Model.
- > The Environmental Defense Fund's evaluation framework.

These standards are supplemented by MetaVu's own extensive experience in grid investment performance evaluation.

Credentials

MetaVu has led smart grid evaluations for high-profile pilot projects and deployments in the U.S., including **Xcel Energy's SmartGridCity™** and the **Public Utilities Commission of Ohio**:

- > Cost/Benefit analyses of various AMI capabilities (e.g., time-differentiated rates, demand response, remote disconnect, meter reading, outage mgmt).
- > Cost/Benefit analyses of various DA capabilities (e.g., IVVC, FISR, grid state monitoring, load switching).
- > Identification of operational and organizational opportunities to optimize smart grid data and capabilities.
- > Qualitative and quantitative analyses of customer perspectives and perceptions of smart grid capabilities and benefits.
- > Assessment of conformance with NIST guidelines on data privacy and cyber security.