

Smart Metering and Smart Grid technologies include Advanced Metering Infrastructure (AMI), Meter Data Management Systems (MDMS), Distribution Automation (DA), SCADA, Demand Response (DR) and the Home Area Network (HAN).

These technologies are all capable of transforming the utility to an entirely new, higher plateau of business performance. Their capabilities allow the utility to greatly enhance customer services, revenue management, distribution operations, outage management and asset utilization while enabling customer choice.

Real-World Experience

Enspira Solutions offers extensive experience in consulting, systems integration and program management to utilities as they look to deploy the full range of Smart Metering and Smart Grid technologies and processes.

Enspira Solutions has the real-world experience, in-depth insights and practical experience needed to confidently transform your vision into reality. More than 30 utilities have turned to the Enspira team for help in defining and implementing smart metering and smart grid strategies — strategies impacting over 55 million meters across North America.

Our staff maintains knowledge of a range of Smart Metering technologies, and has real-world experience implementing AMI, MDMS, DR and Smart Grid solutions.

Enspira Solutions' methodology is based on understanding your business goals and challenges, and then tailoring industry best practices and technologies to address your specific needs.

Consulting and Implementation Services

We provide a full suite of services to help our clients maximize the benefits of these complementary and enabling technologies. We assist utilities throughout the entire Smart Metering/Smart Grid technology implementation lifecycle, including:

- Visioning and strategic planning
- Regulatory strategy and support
- Requirements specification
- Business structure options and business case development
- Technology assessment
- Development of business process models enabled by AMI/MDMS
- Competitive solicitation/RFP development and administration
- Technology/vendor selection and negotiations
- Enterprise architecture design and solution implementation roadmap
- System design, deployment and integration
- Change management
- Project management support
- Field test performance management and system performance certification
- System operations and benefits realization

Our service offerings can be tailored to meet your business and project goals and constraints. Throughout a project, we work with our clients to gain team involvement and support for project activities and timelines.

Field-Proven Processes

Through our extensive experience with electric, gas and water utilities, we have established processes and analytical frameworks, as well as a comprehensive suite of tools and templates and library of benchmark data, to help you achieve your Smart Metering/Smart Grid project goals quickly and effectively. Enspira Solutions' field-proven processes include:

- Enspira AMI Benefits Framework
- Enspira AMI Cost/Benefit Framework
- Enspira AMI Technology Assessment Framework
- Enspira Library of Cost/Benefit and Technology Benchmark Data
- Enspira Communications Assessment Framework
- Enspira Solution Implementation Roadmap (SIR)
- Enspira Competitive Solicitation Framework
- Enspira Vendor Evaluation Framework
- Enspira Integrated Business Process Models™ (IBPM)
- Enspira Integrated Delivery Methodology™ (IDM)
- Enspira Enterprise Oriented ArchitectureSM (EOA)
- Enspira Benefits Realization (BR)

These frameworks and templates have been proven to accelerate project schedules while ensuring accuracy and comprehensiveness of results.



Real People with Inspired Solutions to Real Problems



About Enspira

Enspira® Solutions, Inc. — a company dedicated to the energy and utility marketplace — offers a unique combination of experience, strategy, and implementation expertise. Enspira Solutions helps utilities improve operational effectiveness, asset performance, customer service, and energy efficiency.

Enspira Solutions experts provide business and technology consulting, systems integration and implementation, data services, lifecycle data management, and maintenance/upgrade services. The company is backed by the financial strength of parent company Osмосе Holdings, Inc., with over \$600 million in revenue.

- The Enspira Solutions staff has worked at utilities across North America and worldwide.
- Each member of our technical staff has extensive experience in the planning, design, development, implementation, and integration of utility and business technology systems.
- In addition to AMI and MDM, we have experience with the leading commercial vendors for every aspect of energy delivery systems, including GIS, graphical work design, DMS, OMS, WMS, EAM, T&D planning and engineering, MWM, billing and customer care, and distribution and substation automation.

Enspira offers solutions based on proven industry software products, integration standards, and business models. Providing rapid delivery through integration frameworks and configurable solutions, we deliver complete business solutions, not just enabling technology. These services enable utilities to fully realize the benefits of past, current, and future technology investments. We specialize in:

- Advanced Metering Infrastructure/Automated Meter Reading (AMI/AMR) and Meter Data Management Systems (MDMS)
- Substation/Distribution Automation
- Geographic Information Systems (GIS)
- Outage Management Systems (OMS)
- Mobile Work Management and Field Force Automation
- Work Management Systems (WMS)
- Asset Management

Each member of our technical staff has extensive experience in the conception, development, implementation, and integration of utility and business technology systems.

Sample Projects

Below is a small sample of the types of projects that Enspira Solutions has performed.

Representative Clients	Services Performed										
	Visioning & Strategic Planning	Business Case	Design & Specifications	Technology & Vendor Assessment	Regulatory Support	Implementation Plan	RFP & Evaluation Support	Field & Performance Testing	Systems Deployment & Integration	Change Management	Program Management & Oversight
IOU serving 1.4 million customers (electric & gas)	●	●	●	●	●	●	●	●	●	●	●
Municipal utility (electric and water)	●		●	●		●	●				
IOU serving 1.5 million customers (electric & gas)	●	●	●	●	●	●	●				
Municipal utility (natural gas, electricity, water, and wastewater)			●					●			
IOU serving 1.9 million customers (electric & gas)	●	●	●	●		●	●	●		●	
Canadian electric utility	●	●	●	●		●					
IOU serving 5 million customers (electric)	●	●	●	●		●	●				●
IOU serving 1 million customers (electric)	●	●	●	●	●	●	●				
IOU serving 1.4 million customers (electric)									●		●
Municipal utility (electric and water)	●	●	●	●		●	●			●	
IOU serving 2 million customers (electric & gas)	●	●	●	●	●	●	●	●	●		●
Generation & Transmission Cooperative			●	●			●				
IOU serving 3 million customers (electric)	●		●			●	●		●		



Advanced Metering Infrastructure (AMI)

AMI is one of the hottest topics in the utility industry today. It is a pivotal information source that, when used effectively, can drive enterprise efficiencies and benefits throughout the distribution business, including:

- Increased revenue & reduced impact of price volatility
- Increased customer satisfaction
- Enabling of value-added services
- Reduced capacity requirements & improved asset utilization
- Increased distribution system & service reliability
- Enabling Demand Response (DR) & Smart Grid technologies
- Improved load forecasting and modeling, system planning & engineering
- Enhanced water & gas leakage detection
- Improved transformer load management
- Improved energy diversion detection

Enspira Solutions offers extensive experience in AMI consulting and systems integration. We provide a full suite of consulting and implementation services to help our clients maximize the benefits of AMI.

Demand Response

Demand Response (DR) encourages consumers to reduce their demand, particularly during load-peak periods, through technologies and pricing structures such as:

- Smart thermostats
- Smart A/C cycling controls
- In-home displays of pricing signals
- Critical price alerts
- Endpoint load management devices such as air conditioning cycling switches
- Critical-peak pricing and real-time pricing, as well as time-of-use and interruptible rates

DR leads to a reduction of customer energy usage, increases system reliability, and supports infrastructure optimization or deferral. In short, it can defer the utility's investment in generation.

Enspira is an experienced consultant in this arena, and works with industry leading clients. We can ensure that your utility takes advantage of the increasing synergies and joint business benefits between DR, AMI, and Smart Metering/Smart Grid initiatives.

Meter Data Management

A Meter Data Management System (MDMS) collects and translates meter data into information that can be used by the various utility applications such as billing, outage management, and GIS. Key benefits of an MDMS include:

- Helping the utility meet the challenges of processing and managing metering data
- Providing a single repository for this data with a variety of analysis capabilities to facilitate the integration with other utility information systems.

MDMS provides key functions that support AMI installation activities, and as such, is crucial to achieving the enterprise benefits of AMI. The benefits of MDMS spread across the AMI lifecycle, from project planning to deployment to system operations and maintenance. Enspira professionals have extensive real-world utility experience in the development and implementation of MDMS. We can help you to include an MDMS solution as part of your Smart Metering program, or to add an MDMS to help you get the full benefits from your existing AMI investments.

Smart Grid

The Smart Grid integrates new innovative tools and technologies from generation, transmission and distribution all the way to consumer appliances and equipment. It provides unparalleled capabilities in monitoring, controlling, optimizing the efficiencies, and automating the restoration of the energy delivery grid. Implementation of an MDMS and integration of AMI data with distribution management systems (SCADA/DMS), distribution automation systems, and other systems provide the information and intelligent control necessary to facilitate the operation of the smart grid.

Much of the benefit in implementing a smart grid infrastructure relies on the capture of data granular and timely enough to communicate the status of the utility distribution system in order to process intelligent controls for network equipment. AMI captures the meter-level activities and data, providing a foundation for "smart grid" and the "utility of the future."

Enspira professionals are able to bring real-world utility experience, expertise and solutions to each unique project. Every AMI engagement that Enspira has performed in the last two years has included considerations for Smart Grid as well as Demand Response.



For more information please visit:
enspiria.com