



In Cooperation with:



Organized :

Smart Grid for Modern Power Distribution Systems

How Grid Modernization Can Enable Smarter Utilities, Smarter Consumers
and a More Efficient Power System

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Presented by:



Chris Thomas
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Course Overview:

The smart grid is a hot topic of discussion for electric power professionals and regulators around the world. However, ask five different people what it is, and they will give you six different answers.

In this course the understanding the Smart Grid is designed to help policy makers, utility managers and staff, Transco's, Genco's and Disco's, and other stakeholders gain a more complete understanding of the smart grid. Better communication, telemetry, and control brought about by the innovative suite of technologies comprising a smart grid will create new opportunities for utilities, their customers, and third party providers of hardware, software and data management systems.

This course will introduce participants to a conceptual smart grid model developed through a comprehensive overview of policy, technology, and implementation issues.

The "Smart Grid" is the product of applying smart energy technology to electrical power delivery and Generation. A smart grid incorporates elements of traditional and cutting edge power engineering, sophisticated sensing and monitoring technology, information technology, and communications to provide better grid performance and to support a wide array of additional services to consumers.

The potential benefits of an enhanced power delivery system are enormous. An upgraded grid can support the provision of important new services to consumers, including better ability to manage energy use and energy costs, and better support to use of distributed generation. Studies of potential benefits suggest that transformation of power grid over the next 20 years could result in substantial increases in productivity and GDP growth, reduced carbon emission, and increased national security

Intended Audience:

This course is intended for:

Policy Makers, Regulators, Utility Management and Strategic Planners, Managers and Senior Staff of Genco's, Transco's and Disco's, consumer advocates, competitive suppliers, and technology purveyors.

This course requires familiarity with the fundamentals of the electric power system and some knowledge of evolving electricity markets.

What Will You Learn?

The course is designed to help participants develop the basic understanding necessary for evaluating policy, regulatory, and technology issues relating to smart grid deployment.

Participants in the course will gain familiarity with the elements of an upgraded grid, the policies and technology changes that are necessary to support it, and a framework to evaluate its costs and benefits.

About ADICA:

ADICA, LLC is an industry leader in providing Smart Market® services, including business solutions and decision support for energy companies and government agencies worldwide.

Our innovative software products provide unique and valuable insights that enable our clients to succeed in the energy marketplace.

The Smart Grid can be thought of as a "central nervous system" giving producers and consumers the ability to monitor and control energy consumption in real time. ADICA's Smart Market® software provides the brainpower for making informed operational, investment, and policy decisions in a Smart Grid environment.

Course Outlines

DAY ONE :

An Overview of the Smart Grid

What is the Smart Grid?

Technical, Regulatory, and Policy Definitions
Perspectives from utilities, regulators, consumers, and third parties

Why do we need one?

How information can be used to increase efficiency
New technologies that improve efficiency and reliability

Case Study: Aggregation of Demand Response

What are the benefits?

For Utilities
For Customers
For Third-Parties
For The environment

An overview of Smart Grid Technology, Policy, and Implementation Issues.

Inducements/Barriers to investment
Inducements/Barriers to benefits

Case Study:

Investment in a rapidly evolving marketplace

DAY TWO

Technical Requirements, standards, and applications that create value

Technical Requirements

Uniform standards, Interoperability, Open Architecture, Non-discriminatory Access; Data Collection, Storage, Management, Security, Availability to Third Parties, Standards for Interconnection and connectivity

Case Study:

NIST and the quest for standards in the US

Smart Grid Applications – creating value from smart grid functional capabilities

Identifying functional capabilities
Creating value
Identifying application

Case Study: Integration of Electric Vehicles

DAY THREE:

Opportunities /Challenges for Customers

AMI Systems

Technology, Capabilities, Home area networks

Demand Response

What is it? What are the benefits?
How can customers respond?
Business models for sustainable demand response

Case Study: BOMA Chicago

Challenges for the consumer

Responding to prices, Changing behavior
Adapting to new technologies

Case Study: 14 Pricing Experiments in the US

DAY FOUR:

Smart Grid Technology

Transmission System Communication and Control Technology

Support for intermittent renewable resources
Monitoring technologies. Automated reclosers
Transmission Automation

Case Study:

Can information help avoid a blackout?

Distribution Grid Management and Electric Storage

Distribution automation, Distributed energy resources
Asset management

Case Study: The Olympic Peninsula Project

Behind the Meter

Distributed generation, Energy management solutions
Energy management strategies, Technology in the home

DAY FIVE:

Policy Issues

A framework for Cost-Benefit Analysis

Valuating societal benefits, Valuating demand response benefits, Identifying and mapping other Benefits, Quantifying costs, Addressing social issues

Case Study: California

A Roadmap to the Modern Grid

The value of collaboration
Milestones and benchmarks
Building credibility and support

Course Conclusion & Summary

About Speakers

Chris Thomas

Vice President of Energy Solutions

Mr. Thomas is an accomplished energy system economist with proven achievement in finding collaborative solutions for complex technical issues.

Mr. Thomas serves as Vice President of Energy Solutions at ADICA, LLC where he provides technical leadership and directs an international collaboration program designed to strengthen the planning, analysis, and implementation of distributed energy resources.

Mr. Thomas' also serves as Director of Policy at the Citizens Utility Board (CUB). In this role, Mr. Thomas has guided the organization to develop a comprehensive vision for bringing the benefits of a modern grid to customers.

His experience includes evaluating legislative and regulatory proposals, negotiating and litigating solutions for complex technical issues, and advocating for full inclusion of demand side resources into the energy supply portfolio through legislative, regulatory, policy, and technical channels.

Martin Cohen

ADICA Associated Professional

Mr. Martin R. Cohen is an independent energy consultant specializing in smart grid regulatory policy and related issues. Mr. Cohen is currently a facilitator of the Illinois Statewide Smart Grid Collaborative, a joint effort conducted under the auspices of the Illinois Commerce Commission by utilities, regulators, consumer, environmental and governmental representatives, and other industry stakeholders to assess smart grid technical and social issues prior to consideration of full deployment.

Mr. Cohen was Illinois' Director of Consumer Affairs for two years, served briefly as the Chairman of the Illinois Commerce Commission, and led the Citizens Utility Board as its Executive Director for fifteen years.

Mr. Cohen's recent work includes expert testimony in several regulatory cases, analysis of costs and benefits of mandated renewable portfolio standards, evaluation of electricity procurement optimization, and studies of the economic development potential of renewable electricity generation.

REGISTRATION FORM

Name (MR./MS): _____

Position : _____

Email : _____

Department : _____

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CONTACT DETAILS



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Course Fees:

The amount of 3500 USD will be charged for the course. Send (3) delegates and get a 10% discount on the third participant.

Payment Method:

All payments should be in favor of Apex FZ-LLC. Account details are as follows:

HSBC Bank Middle East limited,

Jebel Ali Branch, Dubai, UAE

A/C: 035 - 626472 - 100

Cancellation Policy

If you are unable to attend the course you may send a substitute delegate.

Cancellation should be made **20 days** prior to the course conduction. Failure to cancel within **10 days** will be required to pay the course fee in full amount.