Integrated Resource Planning for Utilities Forum

Develop resource plans that incorporate the full palette of supply and demand options

19th – 20th OCTOBER, 2015 - **London**

Key Practical Learning Points of the Forum:

• Describe how IRP planners can model storage as a realistic solution to ancillary services issues
• Determine the value of portfolio flexibility for resource planning and market operations
• Assess how to translate and monetize uncertainty and risk into IRPs
• Examine IRP methodologies associated with fuel conversion strategies and implementation
• Consider the best ways to effectively communicate IRP modeling results to stakeholders, regulatory and interveners
• Evaluate methods and results associated with modeling energy efficiency as a selectable resource

Media Partner:

EDSO
for smart grids

International Expert Speaker Panel:

Carmen Neagu
President of the Supervisory Board
Transelectrica

Derek Bunn
Professor of Decision Science
London Business School

Viktor Balyberdin
CEO
SKM Energy

Neil Pennington
Programme Director
RWE N-Power

Christopher J Toop
General Manager
Scottish Water

Martin Wilcox
Head of Future Networks
UK Power Networks

Dennis Dellow
Technical Consultant,
Chairmanm os Water UK Leakage
North Umbriam Water

Andrew Donnelly
Head of Network Monitoring &
Advisor to the Board
EPAL

Stephen Herndlhofer
Head of Information Services
Yorkshire Water

David Rose
Energy & Carbon Manager
South West Water Ltd

Gunnar Lorenz
Head of Units
EuroElectrics

Ingo Wagner
Policy and Project Officer
Euroheat & Power

8:30 Registration and Coffee
9:00 Opening Address from the Chair

Integrated resource planning – Current State of Importance in European Energy Markets

09:10 Case Study
Develop resource plans that incorporate the full palette of supply and demand options

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Carmen Neagu
President of the Supervisory Board
Transelectrica

09:55 Case Study

Determine the value of portfolio flexibility for resource planning and market operations

This session will discuss the value of utility portfolio flexibility both for resource optimization and market operations in sub-hourly real time markets. The growing penetration of variable and intermittent energy resources, distributed generation and other market dynamics are resulting in greater volatility in net load

Gunnar Lorenz
Head of Units
EuroElectrics

10:40 Morning Coffee and Networking Break

No Longer Background Noise: Integrated Resource Planning When Energy Efficiency Really Matters

11:10 Case Study
South West Water's overall energy management strategy

- Energy efficiency- identifying were energy being used and controlling its usage
- Renewable energy- investing in cost effective renewable initiatives
- Carbon management- Setting targets and reducing carbon as part of an overall energy management strategy
- Staff/ Stakeholder Engagement- encouraging staff to come up with energy saving initiatives and promoting grass roots innovation

David Rose
Energy & Carbon Manager
South West Water Ltd

11:45 Case Study
Energy and water resource integration at Scottish Water

- Energy efficiency and load management
- Renewable energy and self-sufficient treatment works
- Innovation and heat recovery

Christopher J Toop
General Manager
Scottish Water

12:30 Business Lunch
14:00 Coffee & Networking Break
14:30 Case Study

Integrated in network monitoring Strategy- EPAL
- Segmentation of the distribution network into DMAs
- Continuous telemetry monitoring for both network & key clients
- Use of practical performance indicators to support Active Leakage Detection
- WONE software application developed in-house for estimating recoverable leakage per DMA and repair validation
- Costumer alert system (Waterbeep) for changes in consumption patterns and costumer-size leakage
- Applications in other distribution systems and scenarios

Andrew Donnelly
Head of Network Monitoring & Advisor to the Board
EPAL

15:15 Case Study

Use of long-term forecast in the investment decision - Uncertainties & Opportunities

- Models and approaches for modelling power prices
- Uncertainties in the input assumptions on the fuel and CO2 prices
- Future development of the production mix and power balance
- Long-term forecasts as a tools for investment decision

Viktor Balyberdin
CEO
SKM Energy

16:00 Case Study

- Mapping of heating & cooling demands
- Matching demand with heating & cooling sources
- Integrating heating & cooling and electricity
- Modelling future energy systems
- Developing comprehensive policies

Ingo Wagner
Policy and Project Officer
Euroheat & Power

15:10 PANEL DISCUSSION

Deregulation of Markets VS Integrated Resource Planning. Are they Compatible?

- Nature of IRP
- Nature of Deregulation and its Impact to IRP
- IRP vs Deregulation?

15:50 Afternoon Tea and Networking Break

16:20 Chairperson's Closing remarks and End of Day One

8:30 Registration and Coffee
9:00 Opening Address from the Chair

Upgrade your IRP with World class Tools and Practices

09:10 Case Study

Resource Planning in a Transforming Utility
Business Model Environment

- Planning for LSEs and merchant providers in competitive power markets
- Planning for VIEUs with market exposures
- Planning that takes into account the transition from 1-way network to multi-path (smart) network

Neil Pennington
Programme Director
RWE N-Power

09:50 Case Study

Modelling price and performance risks in the low carbon transition

- New techniques for modelling high and low price risks
- Modelling the influence of wind and solar outputs
- The increasing business and policy risks on future asset performance

Derek Bunn
Professor of Decision Science
London Business School

10:30 Morning Coffee and Networking Break

Building Better Resilience Assessments into Integrated Resource Plans

11:00 Case Study

Optimisation of water operation using Derceto Aquadapt

- Control Method System
- Chalanges faced at uniform levels
- Best Practice

Dennis Dellow
Technical Consultant &Chairmanm os Water UK Leakage
North Umbriam Water

11:40 Case Study

1- UK Power Networks overall approach to using flexibility to manage load and generation
2- Deep dive into one of: industrial and commercial DSR; our views, ahead of it being rolled out, on domestic
Time-of-Use tariffs; enabling more generation to connect with flexible connections contracts; or monitoring transformer capacity in real-time to defer capital investment.

Derek Bunn
Professor
London Business School

13:00 Busines Lunch
14:00 Coffe and Networking Break

Renewable Energy Integraions - Effectively Managing your "Loads

12:20 Case Study

Properly Accounting for All Variables when Analyzing, Modeling and Planning Portfolio Decisions

- Vertically integrated utility
- Competitive market design
- Citizen/owner/consumer relationship
- Portfolio selection that must incorporate legacy generation, generation, distribution assets

Stephen Herndlhofer
Head of Information Services
Yorkshire Water

14:30 Case Study

Translating and Monetizing Uncertainty and Risk into IRPs

- Capturing the components of physical and market risk
- Modeling and monetizing risk into the decision analysis
- Developing credibility through benchmark standards for model performance
- Case study of NorthWestern Energy's $870 million hydro acquisition

Pieter Zijlema
Managing Director
PVNED B.V.

15:50 Afternoon Tea and Networking Break

16:20 PANEL DISCUSSION

Synchronizing Asset Management, Work Management and Supply Chain Management to Drive High Performance

17:00 Chairperson's Closing remarks and End of Conference.

Integrated Resource Planning for Utilities Forum

19th – 20th October 2015, London

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