



Sustainable Distribution Asset Management & Financing

7-8 June 2010 | Lyon, France

www.cired2010-workshop.org



Programme

Monday, 7 June 2010

Theme 1 : Major drivers for asset management policies

10.15 hrs : opening

10.30 hrs : Keynote speakers' presentations

- Pierre-Yves Madignier, ERDF, France
New basis for DSOs'asset management policies

- Frits Verheij, KEMA, The Netherlands
How will existing trends effect future business of the energy sector?

- Francesco Sessa, ENEL, Italy
ENEL's asset Management approach

- Rhys Davies, LLOYD's REGISTER, United Kingdom
PAS 55 - Progressing to ISO Standardisation

11.30 : Oral presentations : Subtheme 1 "Asset Management practices, Regulation, Long term perspective"

23 Some impacts the regulation of electricity supply continuity on decision making by distribution network operators connected with the telemechanization of the MV overhead distribution network
Petr Skala, EGU Brno, a.s., Czech Republic; Vaclav Detrich, EGU Brno, a.s., Czech Republic

26 Asset Management Reloaded
Lars Jendernalik, RWE Westfalen-Weser-Ems Verteilnetz GmbH, Germany

60 A risk based model supporting long term maintenance and reinvestment strategy decision making
Kjell Sand, SINTEF Energy Research, Norway; Dag Eirik Nordgård, SINTEF Energy Research, Norway; Geir Solum, Trondheim Energi, Norway; Kjetil Storset, Skagerak Energi, Norway

73 Laws and Regulations of Swedish Power Distribution Systems 1996-2012-learning from novel approaches such as less good experiences
Carl Johan Wallnerström, Royal Institute of Technology - KTH, Sweden; Lina Bertling, Chalmers, Sweden

86 Granularity of asset management
Yongxing Zhou, Shanghai Power, China; Jiping Liu, Shanghai Power, China; Weiguo Wang, Shanghai Power, China; Yuelu Zhang, Shanghai Power, China; Lei Wang, Shanghai Power, China

125 Asset management proves to secure sustainability
Benoit Houssard, ORES, Belgium; Michel Lefort, ORES, Belgium

12.30 hrs : Lunch

13.30 hrs : Oral presentations : Subtheme 2 "Condition monitoring, RCM, Risks, Procurement practices, HILP (High Impact Low Probability events), Network design"

10 Analysis of Energy Efficiency Optimization in Distribution Transformers considering regulation constraints.
Paola Pezzini, CITCEA-UPC, Spain; Oriol Gomis-Bellmunt, CITCEA-UPC, Spain; Antoni Sudrià-Andreu, CITCEA-UPC, Spain; Joan Frau-Valenti, ENDESA, Spain

37 Dealing with High Impact Low Probability (HILP) events such as attacks, natural disasters, in Asset Management?
Yves ZONTA, ERDF, France; Christophe GAUDIN, ERDF, France

74 Condition Assessment and Asset Management in Electric Power T&D Networks
Juan Ledezma, Siemens Energy, Inc., United States; Carlos Dortolina, Siemens Energy, Inc., United States; Horst Hakelberg, Siemens AG, Germany; Karin Furuno, Siemens AG, Germany

89 Implementation of Condition Based Maintenance for Medium Voltage Underground Cable System for TNB Distribution
Jazimah Abdul Majeed, TNB, Malaysia; Halim Osman, TNB, Malaysia; Prodipto Ghosh, RUP Consulting Inc., Canada; Ahmad Basri Abd Ghani, TNB, Malaysia

93 Power Transformer End-of-Life Modelling: Linking Statistical Approach with Physical Ageing Process
Qi Zhong, University of Manchester, United Kingdom; Zhongdong Wang, University of Manchester, United Kingdom; Peter Crossley, University of Manchester, United Kingdom

104 Model-Based Optimization Framework using Predictive Health Model for Asset Management
Gautam Bajracharya, Delft University of Technology, Netherlands; Tomasz Kultunowicz, Delft University of Technology, Netherlands; Dhiradj Djairam, Delft University of Technology, Netherlands; Johan Smit, Delft University of Technology, Netherlands

14.30 hrs : Poster guided tours

Subtheme 1 "Asset Management practices, Regulation, Long term perspective"

24 SmartLife : a European coordination project in networks Asset Management
Christophe Gaudin, ERDF, France; Christian Guillaume, EDF R&D, France; Hallvard Faremo, SINTEF, Norway; Giovanni Pirovano, ERSE, Italy; Lars Lundgaard, SINTEF, Norway; Laura Panella, ENEL DISTRIBUZIONE, Italy; Jos Wetzter, KEMA, Netherlands

25 Consideration of the incentive regulation requirements for cost analysis based on ageing models for 110-kV equipment
Leyla Asgarieh, Technische Universität Darmstadt, Germany; Gerd Balzer, Technische Universität Darmstadt, Germany

27 Asset Management - The right decisions focussed on the future: The development of sustainable long-term asset-strategies with focus on changes and new challenges
Armin Gaul, RWE, Germany; Esko Nockmann, RWE, Germany

29 Securing Sustainable Asset Management By Life Cycle Initiatives -The Life Cycle Asset Management Practice of Shanghai Municipal Electric Power Company

Letian Teng, Shanghai Municipal Electric Power Company, China; Wanrong Xu, Shanghai Municipal Electric Power Company, China; Wei Xie, Shanghai Municipal Electric Power Company, China

32 Using A Comprehensive KPI Framework To Evaluate And Monitor The Overall Asset Management Performance

li Shen, State Grid Corporation of China, China; Letian Teng, Shanghai Municipal Electric Power Company, China; Wanrong Xu, Shanghai Municipal Electric Power Company, China

43 Quality of service target planning and risk analysis for effective asset management - The Enel Distribuzione case study

Gianluca Palumbo, Enel Distribuzione S.p.A., Italy; Laura Panella, Enel Distribuzione S.p.A., Italy; Laura Ventura, Enel Distribuzione S.p.A., Italy

59 Asset Simulation and Automatic Asset Optimization

Armin Gaul, RWE, Germany; Heiko Spitzer, intelligenio, Germany; Christoph Engels, intulion, Germany; Esko Nockmann, RWE, Germany

66 Modelling the impact of preventive maintenance over the lifetime of equipments

Yacine Guessoum, EDF R&D, France; Jean Aupied, EDF R&D, France

67 ERDF electrical network substations Control command systems : ageing and strategies of renewal

Francis Gallon, ERDF, France; Mbaye Saar, ERDF, France

70 Optimized Asset Management - An Integrated Approach

Ramón Nadira, Siemens, United States; Juan Carlos Ledezma, Siemens, United States; Jorge Martinez, Siemens AG, Germany

79 Managing Ageing Assets

Jazimah Abdul Majeed, TNB, Malaysia; Halim Osman, TNB, Malaysia; Dr. Prodipto Ghosh, RUP Consulting Inc., Canada

82 Impacts of renovation: Perspectives of the owner and the customer in the electricity distribution business

Juha Haakana, Lappeenranta University of Technology, Finland; Jukka Lassila, Lappeenranta University of Technology, Finland; Samuli Honkapuro, Lappeenranta University of Technology, Finland; Jarmo Partanen, Lappeenranta University of Technology, Finland

Subtheme 2 "Condition monitoring, RCM, Risks, Procurement practices, HILP (High Impact Low Probability events), Network design"

4 ISCM, Integrated Substation Condition Monitoring

Norbert Kaiser, Siemens AG, Germany; Reinhard Wolf, Siemens AG, Germany; Chris Charlson, Siemens AG, Germany; David Kerr, Siemens AG, Germany

5 Load Economic Density of MV Lines and Asset Management Procedure of Their Conductors Optimal Cross-section Selection

Vladimir Shiljkut, Electricity Distribution Company "Elektrodistribucija Beograd", Serbia; Slobodan Maksimovich, Electricity Distribution Company "Elektrodistribucija Beograd", Serbia

16 Quantifying asset risk to optimise investment - a realistic prospect?

David Hughes, EA Technology, United Kingdom; Paul Barnfather, EA Technology, United Kingdom; Tracy Pears, EA Technology, United Kingdom

31 Amorphous materials and energy efficient distribution transformers

Christophe ELLEAU, EDF R&D, France; Olivier GENIN, EDF R&D, France; Bertrand JARRY, EDF R&D, France; Malick MOUHAMAD, EDF R&D, France

33 Power infrastructure development and the impact of renewable energy sources in a Romanian distribution company

Costica Vlad, Electrica Distributie Muntenia Nord SA, Romania; Daniel Craciun, Electrica Distributie Muntenia Nord SA, Romania; Constantin Coman, Electrica Distributie Muntenia Nord SA, Romania; Radu Somodi, Electrica Distributie Muntenia Nord SA, Romania

34 A technical experience during network asset replacement: investigating cable and transformer switching interactions

Rui Zhang, University of Manchester, United Kingdom; Tony Byrne, United Utilities, United Kingdom; Darren Jones, Electricity North West, United Kingdom; Zhongdong Wang, University of Manchester, United Kingdom

39 Research on Application of Life Cycle Asset Management In Material Procurement

Lu Shuang, Shanghai Municipal Electric Power Company, China; Chen Hongbing, Shanghai Municipal Electric Power Company, China; Xiao Fuli, Shanghai Jiulong Management Consulting Co.,Ltd, China

52 Energy risks and asset management problems caused by an unexpected weather conditions in electricity distribution of Iran

Masoud Aliakbar Golkar, K. N. Toosi University of Technology, Iran, Islamic Republic of; Naser Khodabakhshi Javinani, K. N. Toosi University of Technology, Iran, Islamic Republic of; Hamed Valizadeh Haghi, K. N. Toosi University of Technology, Iran, Islamic Republic of

94 A framework for handling high impact low probability (HILP) events

Gerd Kjølle, SINTEF Energy Research, Norway; Oddbjørn Gjerde, SINTEF Energy Research, Norway; Agnes Nybø, SINTEF Energy Research, Norway

98 Risk analysis for power systems - overview and potential benefits

Patrik Hilber, KTH, Sweden; Carl Johan Wallnerström, KTH, Sweden; Johanna Rosenlind, KTH, Sweden; Johan Setréus, KTH, Sweden; Niclas Schönborg, Svenska Kraftnät, Sweden

111 Risk-based distribution system asset management

Maria Daniela Catrinu, SINTEF Energy Research, Norway; Knut Samdal, SINTEF Energy Research, Norway; Dag Eirik Nordgård, SINTEF Energy Research, Norway

*16.00 hrs : Coffee break and **open posters***

16.30 hrs : Round table 1

A panel of experts will introduce the round table interactive discussions with a short address on the following topics:

Topic 1 : "Impact of condition assessment and monitoring on asset management"

David Hughes, EA Technology, UK

Topic 2 : "Regulatory matters : how can regulatory regimes lead to optimal asset management ? The view of DSOs"

Manuel Rodrigues da Costa, Eurelectric-EDP, Portugal

Topic 3 : "Regulatory matters : how can regulatory regimes lead to optimal asset management ? the view of regulators"

Werner Friedl, e-control, Austria

Topic 4 : "Impact of DG on investment plans ?"

Tony Hearne, ESB, Ireland

Topic 5 : What are the major drivers (sustainability, HILP events, economic crisis, ...) which may lead to changes in asset management policies ?

Fabrizio Pilo, University of Cagliari, Italy

*18.00 hrs : Cocktail and **open posters***

Tuesday, 8 June 2010

Theme 2 : Impact of future technologies and energy policy on Asset Management

08.30 hrs : keynote speakers' presentations

- Mark McGranaghan, EPRI, United States

Smart Grid - Impact on Electric Utility Operations and Management

- Helfried Brunner, AIT, Austria

Smart Grids in Austria

- Olivier Huet, EDF, France

Main stakes and opportunities for smart asset management (towards a smart life of assets in Smart Grids)

- André Postma, ENEXIS, The Netherlands

Electrical Vehicles' smart charging in practise

09.30 hrs : Oral presentation : Subtheme 1 "DG & RES, Active network management, monitoring, network planning"

6 Optimal Investment Planning through Balancing Load Growth with Network Risk
Simon Blake, Durham University, United Kingdom; Philip Taylor, Durham University, United Kingdom; Alan Creighton, CE Electric UK, United Kingdom; David Miller, CE Electric UK, United Kingdom

30 Decentralised Voltage and Thermal Management to Enable More Distributed Generation Connection
Thipnatee Sansawatt, The University of Edinburgh, United Kingdom; Luis F. Ochoa, The University of Edinburgh, United Kingdom; Gareth P. Harrison, The University of Edinburgh, United Kingdom

42 Low carbon policies : possible medium term impacts on distribution network
christophe gaudin, ERDF, France; emilie brun, ERDF, France; pierre sevault, ERDF, France

53 ESB's adoption of smart neutral treatments on its 20 KV system
Martin Hand, ESB, Ireland; Neil McDonagh, ESB, Ireland

56 Improving short-term load forecast accuracy by utilizing Smart Metering
Petri Valtonen, Lappeenranta University of Technology, Finland; Samuli Honkapuro, Lappeenranta University of Technology, Finland; Jarmo Partanen, Lappeenranta University of Technology, Finland

68 Generation and battery modelling and integrated control strategies for a better acceptance of intermittent renewable energy sources in the electric distribution system
Samuele Grillo, University of Genova, Italy; Mattia Marinelli, University of Genova, Italy; Stefano Massucco, University of Genova, Italy; Federico Silvestro, University of Genova, Italy; Daniela Di Rosa, Research Technical Area, Enel Ingegneria e Innovazione S.p.A., Italy; Irene Fastelli, Research Technical Area, Enel Ingegneria e Innovazione S.p.A., Italy; Gianluca Gigliucci, Research Technical Area, Enel Ingegneria e Innovazione S.p.A., Italy

10.30 hrs : Coffee break

11.00 hrs : Oral presentations : Subtheme 2 "Smart grids, smart metering, demand response"

- 9 Home Automation easing Active Demand Side Management
Francisco Lobo-Llata, CITIC, Spain; Ana Cabello, CITIC, Spain; Francisco Carmona, CITIC, Spain; Juan Carlos Moreno, CITIC, Spain; David Mora, Ericsson, Spain
- 17 Smart Grid Enabled Asset Management
Paul Myrda, Electric Power Research Institute, United States; Mark McGranaghan, Electric Power Research Institute, United States
- 18 Innovative network design & optimization using smart metering data
Frederic Gorgette, ERDF, France; Guillaume Roupioz, EDF R&D, France; Ni Ding, ERDF, France
- 78 Smart grids are the efficient base for future energy applications
Torsten Hammerschmidt, RWE Rheinland Westfalen Netz AG, Germany; Armin Gaul, RWE Rheinland Westfalen Netz AG, Germany; Joachim Schneider, RWE Rheinland Westfalen Netz AG, Germany
- 92 European Energy Regulators' Position on Smart Grids
Karstein Brekke, NVE, Norway; Jorge Esteves, ERSE, Portugal; Riccardo Vailati, AEEG, Italy; Gareth Evans, OFGEM, United Kingdom; Tahir Kapetanovic, E-Control, Austria; Werner Friedl, E-Control, Austria; Matthias Steiner, E-Control, Austria; Hugo Schotman,
- 103 Smart grids and networks of the future – Eurelectric views
Gunnar Lorenz, EURELECTRIC, Belgium; Mihai Paun, EURELECTRIC, Belgium; Pierre SCHLOSSER, EURELECTRIC, Belgium

12.00 hrs : Lunch

13.00 hrs : Poster guided tours

Subtheme 1 "DG & RES, Active network management, monitoring, network planning"

- 40 GROW-DERS: Grid Reliability and Operability with Distributed Generation using Flexible Storage
Petra de Boer, KEMA, Netherlands; Dieter Gütschow, KEMA, Netherlands; Roger Cremers, KEMA, Netherlands
- 51 Impact of large-scale stochastic generation and flexible demand on network design and proposals on mid- and long-term asset management
Hamed Valizadeh Haghi, K. N. Toosi University of Technology, Iran, Islamic Republic of;
Masoud Aliakbar Golkar, K. N. Toosi University of Technology, Iran, Islamic Republic of
- 54 Asset Management Benefits from a Wide Area Power Quality Monitoring System
Lance Irwin, Schneider Electric, United States
- 65 SMART GRIDS! The basis of SMART GRIDS are "SMART" planning rules.
Derler Karl, Linz Strom Netz GmbH, Austria; Niederhuemer Walter, Linz Strom Netz GmbH, Austria

69 Investigation of new distribution grid architecture for accommodating higher DG penetration rate

Marie-Cecile Alvarez-Herault, G2Elab, France; Raphaël Caire, G2Elab, France; Bertrand Raison, G2Elab, France; Nouredine Hadjsaid, G2Elab, France; Wojciech Bienia, GSCOP, France; Justine Descloux, G2Elab, France

95 A smart grid approach to distribution management systems (DMS) for electric networks

Antonio De Bellis, ABB - BU Network Management, Italy; Samuele Grillo, University of Genova, Italy; Stefano Massucco, University of Genova, Italy; Sandra Scalari, ENEL - Ingegneria e Innovazione, Italy; Paolo Scalera, ABB - BU Power Systems, Italy; Federico Silvestro, University of Genova, Italy

102 Probabilistic Relational Models for Reliability Centered Asset Management of Active Distribution Management Systems

Johan König, Royal Institute of Technology, Sweden; David Höök, Royal Institute of Technology, Sweden; Lars Nordström, Royal Institute of Technology, Sweden

107 Cost-efficient integration of dispersed integration using voltage dependent reactive power control

Juergen Backes, EnBW Regional AG, Germany; Christian Schorn, EnBW Regional AG, Germany; Hauke Basse, EnBW Regional AG, Germany

110 Energy Resources Management for More Sustainable Distribution Systems: an Intelligent Approach

Zita Vale, ISEP/GECAD, Portugal; Hugo Morais, ISEP/GECAD, Portugal; Carlos Ramos, ISEP/GECAD, Portugal; Hussein Khodr, ISEP/GECAD, Portugal; Pedro Faria, ISEP/GECAD, Portugal

115 E-island (expandable internet sustained load and demand side management for the integration into virtual power plants)

Hans Schaefers, Harbour City University Hamburg, Germany; Franz Schubert, Harbour City University Hamburg, Germany

139 Asset Management of GIS equipment in the context of the renewal of European MV Grid Infrastructures

Bessède Jean-Luc, Areva -T&D, France; Buescher Andreas, Areva -T&D, Germany; Kaltenborn Uwe, Areva -T&D, Germany; Coccioni Renzo, Areva -T&D, Austria; Piccoz Daniel, Areva -T&D, France; Preve Christophe, Areva -T&D, France; Wrobel Frank, Areva -T&D, Germany

Subtheme 2 "Smart grids, smart metering, demand response"

11 Smart metering - Opportunity or threat to the power industry?

Eva Fosby Livgard, TNS Gallup, Norway

22 Preparing for the Future: How Asset Management Will Evolve in the Age of Smart Grid

José Ángel Ríos Blanco, Telvent, Spain; Francisco Romero, Telvent, Spain; Andy Zetlen, Telvent, Spain

36 Smart Grid Technology Roadmap for Austria

Andreas Lugmaier, Siemens AG Austria, Austria; Helfried Brunner, Austrian Institute of Technology, Austria; Hubert Fechner, FH Technikum Vienna, Austria; Friederich Kupzog, Vienna University of Technology, Austria; Andreas Abart, Energie AG Netz, Austria

55 Experiences from operations after a full-scale smart metering rollout

Lars Garpetun, Vattenfall Distribution Nordic, Sweden

71 T&D Europe Vision on Future of Smart Grid Infrastructures in the European context

Giuliano Monizza, T&D Europe, Belgium; Jean-Luc Bessède, T&D Europe, Belgium; Paolo Scalera, T&D Europe, Belgium; Andreas Luxa, T&D Europe, Belgium; Fabrice Huré, T&D

Europe, Belgium; Guillermo Amman, T&D Europe, Belgium; Geert Segers, T&D Europe, Belgium

81 Effects of Demand Response on the End-Customer Distribution Fee
Nadezda Belonogova, Lappeenranta University of Technology, Finland; Jukka Lassila, Lappeenranta University of Technology, Finland; Jarmo Partanen, Lappeenranta University of Technology, Finland

87 New Concepts for Smart Systems - from a Smart Grid via Smart Buildings to Smart Billing
Maria Aigner, Institute of Electrical Power Systems/TU Graz, Austria; Christian Raunig, Institute of Electrical Power Systems/TU Graz, Austria; Ernst Schmutzner, Institute of Electrical Power Systems/TU Graz, Austria; Lothar Fickert, Institute of Electrical Power Systems/TU Graz, Austria

88 Consideration of Safety Requirements for People and Electrical Equipment in Smart Grids
Maria Aigner, Institute of Electrical Power Systems / TU Graz, Austria; Christian Raunig, Institute of Electrical Power Systems / TU Graz, Austria; Ernst Schmutzner, Institute of Electrical Power Systems / TU Graz, Austria; Lothar Fickert, Institute of Electrical Power Systems / TU Graz, Austria

90 Grid Asset Management Suite (GAMS) - Reference Framework for Strategic Grid Management
Christian Heuer, Siemens AG, Germany; Michael Schwan, Siemens AG, Germany; Fin Jennrich, Siemens AG, Germany

119 Effects of PHEVs in power distribution systems: reviews and analyses
Saman Babaei, CHALMERS UNIVERSITY OF TECHNOLOGY, Sweden; Tuan Le, CHALMERS UNIVERSITY OF TECHNOLOGY, Sweden; Lina Bertling, CHALMERS UNIVERSITY OF TECHNOLOGY, Sweden; Ola Carlson, CHALMERS UNIVERSITY OF TECHNOLOGY, Sweden

120 Prepare your "Smart Grid" implementation strategy - Key factors and tools
Robert Denamur, ESRI BeLux, Belgium; Peter Vranckx, P.B.E., Belgium

122 Early-stage Smart Grid deployment: leveraging DNO's legacy assets.
Rosa Mora, Siemens, Spain; Alberto Lopez, CEDETEL, Spain; Alberto Sendin, Iberdrola, Spain; Iñigo Berganza, Iberdrola, Spain

14.30 hrs : Coffee break and open posters

15.00 hrs : Round table 2

A panel of experts will introduce the round table interactive discussions with a short address on the following topics :

Topic 1 : "Evaluating the network costs and benefits of smart grids"
Paul Topfer, Accenture , Australia

Topic 2 : "Incentivising low carbon network innovation"
Dave Openshaw, EDF ENERGY, UK

Topic 3 : "Business drivers for smart grids – USA (Boulder City)"
Jim Mollenkopf, CURRENT Group, LLC, USA

16.30 hrs : closing

Non-interactive poster session

The poster area will be open anytime, all posters being displayed during the whole workshop. List of posters not listed in the interactive tours here above:

Theme 1 : Major drivers for asset management policies

Subtheme 1 "Asset Management practices, Regulation, Long term perspective"

26 Asset Management Reloaded

Lars Jendernalik, RWE Westfalen-Weser-Ems Verteilnetz GmbH, Germany

73 Laws and Regulations of Swedish Power Distribution Systems 1996-2012-learning from novel approaches such as less good experiences

Carl Johan Wallnerström, Royal Institute of Technology - KTH, Sweden; Lina Bertling, Chalmers, Sweden

96 Evaluation of the replacement of a distribution substation

Britta Heimbach, ewz, Switzerland; Hansruedi Luternauer, ewz, Switzerland; Jürg Bader, ewz, Switzerland; Lukas Küng, ewz, Switzerland

101 EURELECTRIC Views Business Trends in the European Power Industry: A Revision of the Economic Situation of the Electricity Distribution Business

Ignacio Martinez del Barrio, UNESA, Spain; Michael Längle, UNESA, Spain

125 Asset management proves to secure sustainability

Benoit Houssard, ORES, Belgium; Michel Lefort, ORES, Belgium

Theme 1 : Major drivers for asset management policies

Subtheme 2 "Condition monitoring, RCM, Risks, Procurement practices, HILP, Network design"

19 Optimization of reliability-centered maintenance (RCM) for power transmission and distribution networks

Ovidiu Georgescu, The Branch of Electrical Energy Distribution Mures, Romania; Dorin Sarchiz, Petru Maior University, Romania; Daniel Bucur, Petru Maior University, Romania

74 Condition Assessment and Asset Management in Electric Power T&D Networks

Juan Ledezma, Siemens Energy, Inc., United States; Carlos Dortolina, Siemens Energy, Inc., United States; Horst Hakelberg, Siemens AG, Germany; Karin Furuno, Siemens AG, Germany

75 Impact of Risks as a Part of Asset Management on Maintenance Task Allocation

Mahmoud-Reza Haghifam, Tarbiat Modares University, Iran, Islamic Republic of; Elham Akhavan, Islamic Azad University-South Tehran Branch, Iran, Islamic Republic of; Alireza Fereidonian, Power and Water University of Tech, Iran, Islamic Republic of

77 Opex reduction in monitoring MV compensated network parameters

Francesco Ortolani, ENEL Spa, Italy; Roberto Calone, ENEL Spa, Italy; Albert Leikermoser, ARS GmbH, Austria; Lorenzo Sartore, ENEL Spa, Italy

91 "Best-offer" purchasing of medium voltage joints based on robustness test

JARRY Bertrand, ERDF, France; TOURCHER Christophe, ERDF, France; TAMBRUN Roger, ERDF, France

104 Model-Based Optimization Framework using Predictive Health Model for Asset Management

Gautam Bajracharya, Delft University of Technology, Netherlands; Tomasz Kultunowicz, Delft University of Technology, Netherlands; Dhiradj Djairam, Delft University of Technology, Netherlands; Johan Smit, Delft University of Technology, Netherlands

Theme 2 : Impact of future technologies and energy policy on Asset Management
Subtheme 1 "DG & RES, Active network management, monitoring, network planning"

6 Optimal Investment Planning through Balancing Load Growth with Network Risk
Simon Blake, Durham University, United Kingdom; Philip Taylor, Durham University, United Kingdom; Alan Creighton, CE Electric UK, United Kingdom; David Miller, CE Electric UK, United Kingdom

47 Reducing uncertainty caused by distributed generation in medium voltage network planning.
Miquel Ramon, Endesa Distribución Electrica S.L., Spain; Andreas Sumper, CITCEA-UPC, Spain; Roberto Villafafila, CITCEA-UPC, Spain; Julia Ferrer, Endesa Distribución Electrica S.L., Spain; Victor Albet, Endesa Distribución Electrica S.L., Spain

49 Improving distribution reliability by integrating Asset management and outage management tasks
Yimai Dong, Texas A&M University, United States; Mladen Kezunovic, Texas A&M University, United States

53 ESB's adoption of smart neutral treatments on its 20 KV system
Martin Hand, ESB, Ireland; Neil McDonagh, ESB, Ireland

76 Development of Operation and Control for Autonomous Demand Area Power System - Comparing Voltage Regulation Effect using SDIF with using Line Sensor in Power Distribution System -
Satoshi Uemura, Central Research Institute of Electric Power Industry, Japan; Hiromu Kobayashi, Central Research Institute of Electric Power Industry, Japan

112 Optimal CHP operation in microgrids to defer network assets' upgrade.
Susanna Mocci, University of Cagliari, Italy; Fabrizio Pilo, University of Cagliari, Italy; Giuditta Pisano, University of Cagliari, Italy; Gian Giuseppe Soma, University of Cagliari, Italy

123 Evaluation of an Energy Storage System on a Distribution Feeder with Distributed PV Systems
Yahia Baghzouz, UNLV, United States

Theme 2 : Impact of future technologies and energy policy on Asset Management
Subtheme 2 "Smart grids, smart metering, demand response"

9 Home Automation easing Active Demand Side Management
Francisco Lobo-Llata, CITIC, Spain; Ana Cabello, CITIC, Spain; Francisco Carmona, CITIC, Spain; Juan Carlos Moreno, CITIC, Spain; David Mora, Ericsson, Spain

92 European Energy Regulators' Position on Smart Grids
Karstein Brekke, NVE, Norway; Jorge Esteves, ERSE, Portugal; Riccardo Vailati, AEEG, Italy; Gareth Evans, OFGEM, United Kingdom; Tahir Kapetanovic, E-Control, Austria; Werner Friedl, E-Control, Austria; Matthias Steiner, E-Control, Austria; Hugo Schotman,

114 Socioeconomic Analysis of Implementing Smart Grid Technologies
John Saymansky, West Virginia University, United States; Ali Feliachi, West Virginia University, United States; John Sneckenberger, West Virginia University, United States

138 Successful integration of SCADA-EDMS and EAM brings significant value-added to distribution business
Roy Jean-Luc, Areva -T&D, France; Coullon Jean-Louis, Areva -T&D, France; Murray Chris, IBM, United Kingdom