



prima

The Global BIG DATA Analytics In Power & Utilities Industry Forum

24-25-26 April 2024, Berlin, Germany

INTRODUCTION

The Global BIG DATA Analytics In Power & Utilities Industry Forum is a conference or summit that brings together experts, professionals, and stakeholders in the power and utilities industry to discuss the latest trends, developments, and innovations in big data analytics. The forum typically covers a range of topics, including data management, analytics, visualization, artificial intelligence, and machine learning, as they relate to the power and utilities sector. The objective of the forum is to share insights, best practices, and practical strategies to help organizations in the industry harness the power of big data to optimize their operations, improve efficiency, reduce costs, and enhance customer experience.

DAY
1

Wednesday 24 April 2024

09.00 Opening address from the Chair

09.10 - Case Helen: Data & AI powered energy company

- ▶ Enabling digital customer interaction and participation to the energy ecosystem
- ▶ Data and AI driven automated and distributed energy system
- ▶ AI as a colleague

Mikko Muurinen
Head of Data & AI
Helen



09.50 - Reserved for a sponsor



10.30 - Opportunity to learn about the sponsor solutions, interactive networking session and coffee break

11.00 - Energy harvesting for the IoT

- ▶ Getting rid of the battery that needs to be charged / replaced / maintained / recycled within IoT
Always-online and zero-maintenance
- ▶ Energy harvesting, but with the tools that really work
- ▶ – today

John Tillemma
CTO
TWTG RandD B.V



11.40 - Multidisciplinary digital twin technology for safety-critical systems in the energy transition

- ▶ Successful incorporation of digital twin technologies
- ▶ An overview of critical technical parameters
- ▶ A room to grow - predictions toward the future

Dr. Henry Tan
Senior Lecturer
University of
Aberdeen



12.20 - Lunch

13.30 - Reserved for a sponsor



14.10 - Driving grid innovation projects under increased regulatory pressure, intense cybersecurity threat and rapidly rising demand for renewables integration

Dr. Kamal Radi
Senior Specialist – Power Systems Planning,
SCADA and Energy Management Systems (EMS)
ESB



14.50 - Opportunity to learn about the sponsor solutions, interactive networking session and coffee break

15.20 - Powering the Future with Big Data: Legal, Risk, and Contract Strategies

Joseph Otoo
Senior Legal Counsel
Arup



CLOSING PANEL DISCUSSION

16.00 - Discussing the key points from Day 1

16.40 End of Day One – Closing word from the Chairman

DAY
2

Thursday 25th April 2024

09.00 Opening address from the Chair

OPENING ADDRESS

09.10 - A focus on Master Data Management

Andreas Tagkalakis
Department Manager - Global
Master Data Management
OMV



09.50 How AI can help to develop and optimize renewable power plants in merchant power markets

- ▶ Renewables in the context of power market canalization – driving new optimization KPIs into the industry
- ▶ Power output optimization across Wind, Solar, and Hybrids
- ▶ Integration across multiple power offtake strategies

Daniel Luecht
Founder & CEO
NASH Renewables
GmbH



10.30 - Opportunity to learn about the sponsor solutions, interactive networking session and coffee break

11.00 - Reserved for a sponsor



11.40 - Topic TBA

Sebastian Gjertsen
Data Scientist
Statkraft



12.20 - Lunch

13.30 - Managing smart meter data privacy risks by balancing privacy with the benefits of data access

Koen Kok
Professor Intelligent Energy
Systems
Eindhoven University of
Technology



14.10 - Reserved for a sponsor



14.50 - Opportunity to learn about the sponsor solutions, interactive networking session and coffee break

15.20 - Coffee break

15.50 - Quantum Computing in the Power & Utilities Sector – Visions for tomorrow, realities of today

- ▶ Overview of Quantum Computing: what is it? How does it work? Key advantages over classical computing
- ▶ Role of Quantum Computing in the P & U Sector: potential use cases in energy distribution, demand prediction, pricing, ...
- ▶ Current state of quantum computing/ exploration of these use cases: what is possible today, what is the expected timeline to scale?
- ▶ Actions to take: when and how to start with quantum computing?

Dr. Barbara Wellmann
Lead Quantum.Link
Deloitte



16.30 END OF THE SECOND DAY, CLOSING WORD FROM THE CHAIR

DAY
3

Friday 26th April 2024

09.00 Opening address from the Chair

OPENING ADDRESS

09.10 - Data collection and utilisation in the energy transition

Per-Oddvar Osland
Research Manager
Glitre Nett AS

Glitre Nett

09.50 Driving grid innovation under increased regulatory pressure, intense cybersecurity threat, and rapidly rising demand for renewables integration

- ▶ Speeding up grid modernisation through flexibility and storage to manage demand and capacity constraints
- ▶ Aligning organisational culture and capabilities to meet the needs of the future grid
- ▶ Embedding an understanding of the threat landscape and adversarial capabilities to enable a proactive approach to cybersecurity

Anjos Nijk
Managing Director
European Network for Cyber
Security (ENCS)



10.30 - Opportunity to learn about the sponsor solutions, interactive networking session and coffee break

11.00 - Reserved for a sponsor



11.40 - A focus on Data Hub and Data Centricity

François Gorlier
System Data
Operations
Eliia



12.20 - Lunch

13.30 - The definition and the specification of data products for the TSO world

Florent Jochaud
Data platform architect
50Hertz Transmission GmbH



14.10 - Reserved for a sponsor



14.50 - Opportunity to learn about the sponsor solutions, interactive networking session and coffee break

15.20 Understanding load risk and growth using Data Analytics

Energy use is changing at domestic properties. Our customers are responding to the Net Zero challenge and are using EV chargers, heat pumps and installing more home based generation. Our challenge is to make sure the network is ready for what our customers need. A complication of this is that networks do not have access to the full detail of customer smart meter data, the network was also not designed originally with this level of monitoring in mind.

Through an innovative approach we have worked with stakeholders to pull additional data to better understand our customers. This has included a smart meter data trial and details of EV registrations from the UK Government. The outcome of this work has been to develop an AI model that is able to interpret a wide range of information and identify sites which are forecast to have heightened levels of load. The system then provides additional information to our engineers to allow them to carry out a detailed analysis of sites. The change of approach has demonstrated the benefits of cross functional working within the company and of working with stakeholders externally.

This innovative approach has allowed an increase of more than 10 times the number of sites to be analysed by engineers. We now have visibility of all of our sites, are able to include these in flexibility tenders and have built in street level load forecasting to understand where we need to focus our efforts.

Luke Hughes
Head of Network Planning for London and region
UK Power Networks



15.50 Closing panel discussion: Lessons learned and outlook towards the future

16.30 END OF THE FORUM

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Allan Bernard

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✉ E-mail: allan.bernard@conference-nrg.com

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