Conference, Exhibition & Networking Forum

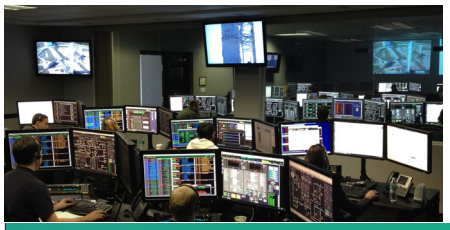
SMART GRID FORUMS | **SGTech Week 2023**

Very Early Bird Rate! Expires Friday 16th December 2022

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

Smart Grid Technnical Innovations in: Substations, SCADA Systems, Telecoms, Cybersecurity

5-Day Conference, Exhibition & Networking Forum | 20-24 March 2023 | Amsterdam, The Netherlands



Discussion Themes Include:

- **Applying IEC standards** including IEC 61850, IEC CIM, IEC 62443 to drive the efficiency of the grid
- **Driving the Energy Transition** against a backdrop of new Geopolitical realities, revised regulatory frameworks, and intensifying cybersecurity threats
- **Fast tracking the deployment of next generation digital substations** based on standardised process bus architectures in HV, MV and LV networks
- **Leveraging the latest SCADA features** and functionalities to drive system integration and support the development of the self-healing grid
- **Ensuring the reliability and security of advanced IP/MPLS based telecom networks** based on the optimal mix of private utility and public carrier networks
- **Implementing advanced cybersecurity prevention, detection and response strategies** to drive next generation cybersecurity and get ahead of the threat

Event Highlights Include:

- **Utility case-study driven agenda** showcasing 40+ TSO and DSO techno-commercial implementations of smart grid technologies
- **Technology innovation discussions** enabling you to quiz future strategies and influence the direction of supplier product development roadmaps
- **End-User roundtable discussion** enabling you to bring your real-world grid innovation challenges to the table and benefit from the insights and advice of the entire smart grid ecosystem
- **Hands-on practical workshops** enabling you to get under the skin of complex IEC standards to ensure their cost-effective implementation in your environment
- **Exhibition area** displaying 30+ suppliers of smart grid products and services in the substation, SCADA, telecom and cybersecurity domains
- **Extensive programme of facilitated networking** including a Networking Evening Reception on the evening of conference day one, open to all participants

70+ Speakers Including:

Daan Schut
CTO
Alliander

David Peters
CTO
Stedin

Michael von Roeder
Group CDO and CIO
Elia Group

Wolfgang Löw
CISO
EVN

Torsten Knop
Head of European Regulation & Projects
E.ON

Ricardo Jorge Santos
Associate Director of Innovation Department
E-REDES

Ellen Diskin
Head of the National Network Local Connections Programme
ESB Networks

Jan Vorrink
Manager Control Centres/ System Operations
TenneT

Walter Schaffer
Head of Competence Centre Electricity
Salzburg Netz

Mikko Holmgren
Secondary Systems
Fingrid

Rasmus Armas
Head of Asset Management
Elektrilevi

Ralf Heisig
Product Manager MCCS NextGen
50 Hertz

Gudjon Karason
Project Manager
Landsnet

Vincent Audebert
5G IoT & Telecom Expert
EDF

Luigi Cornario
Head of Technology Development
Areti S.p.A

Sjors van der Heijden
Strategist, Grid Innovation
Stedin

Thierry Coste
Research Engineer
EDF

Elisabeth Hufnagl
Technician, Power Lines
Wiener Netze

Christian Freudenmann
Manager M2M Products
450 Connect

Svein Olsen
Enterprise Information Architect
Statnett

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Conference, Exhibition & Networking Forum

Dear Colleague,

Welcome to the 4th annual **SGTech Week 2023** conference, exhibition and networking forum, which draws together 150+ Substation, SCADA System, Telecom and Cybersecurity professionals, for a review of the latest smart grid implementation projects and innovation roadmaps.

This year's week-long programme provides a combination of practical workshops, high level plenary sessions, techno-commercial case-study presentations, technology innovation panel debates, and intimate end-user roundtable discussions, to drive awareness of recent successes and setbacks as well as stimulate new ideas to drive the deployment of the smart grid further faster.

The multi-track format enables participants to fully immerse in the technical domain that is most relevant to their day-to-day responsibilities, whilst being able to pick and choose sessions from other tracks to enhance their working knowledge of other domains. By bringing multiple smart grid technical teams together under one roof, IT-OT integration is not only explored, but it is facilitated and promoted to help drive the next phase of smart grid deployments with greater ease.

Monday 20th March 2023: Fundamentals of IEC 61850 Workshop

The week begins with a practical workshops focused on one of the most crucial IEC standards for the smart grid: IEC 61850 for Substation Automation. Led by Christoph Brunner, Convenor of TC57 WG10, this is a great opportunity to get up to speed with the latest evolutions and applications of the standard.

Tuesday 21st to Thursday 23rd March 2023: Smart Grid Technical Innovation Conference & Exhibition

The main conference opens with a morning of plenary sessions addressing the big macro issues facing the power grid, including the Energy Transition, Geopolitical pressures, Regulatory frameworks, Cybersecurity threats, and Workforce development demands. It then breaks into 3 technical tracks providing utility-driven reviews of the latest innovation projects and grid deployments in the areas of: Digital Substations, SCADA and Control Rooms, and Utility Telecom. 40+ utilities share lessons learnt from their recent implementations and future roadmaps to support a much faster pace of renewables integration and ensure future energy security.

Friday 24th March 2023: Smart Grid Cybersecurity Briefing

The week wraps up with a deep-diving briefing on Smart Grid Cybersecurity, in partnership with EE-ISAC, showcasing implementations of prevention, detection, and response strategies that are helping pioneering utilities get ahead of the threat.

We look forward to welcoming you to the event in March 2023.

Kind Regards,

Mandana White
CEO | **Smart Grid Forums**

PS: Very Early Bird – Save up to €800 on Delegate places and €2,000 on Exhibitor spaces by booking before Friday 16th December 2022

PPS: Group Booking Discount – 30% discount for 5+ delegates and 50% discount for 10+ delegates from the same organisation at the same time – contact us today to arrange!

Pre-Conference Workshop
Fundamentals of IEC 61850

Monday 20th March 2023

Workshop Leader:

Christoph Brunner
President of it4power
Convenor of TC57 WG10

The IEC 61850 standard is an extensive and complex set of international standards specifically designed for substation automation and the smart grid. Now universally recognised as the de-facto standard for power utility compliance, it presents as many challenges as it does opportunities.

During this workshop Christoph Brunner, Convenor of IEC TC 57 WG 10 provides a comprehensive and in-depth insight into the building blocks, key applications and optimal operations of the standard within the substation environment and beyond.

Workshop Programme:

Session 1: Fundamentals of IEC 61850 – main features of the standard and implications for the utility engineer
This session is a short introduction to IEC 61850 for newcomers. The concept of IEC 61850 is introduced with its key objectives and features to support interoperability, free configuration and long term stability. A comparison with other communication standards will be made, and the impact on the utility engineer will be clarified. Edition 1 will be reviewed in relation to its application in different domains. The main features of IEC 61850 communication, application modeling and engineering process will be introduced including GOOSE messaging and Process bus with sampled values.

Session 2: Evolution of the standard – improvements, wider smart grid applications and suitability for new domains
Understand how the standard grows from Edition 1, the backward compatibility aspects, new features and functionalities, the rate of take up within vendor products and feedback from utility implementations. In this session the major new features introduced will be discussed. The session will also talk about IEC 61850 implementations across the wider smart grid, as well as in new domains such as hydroelectric power plants, distributed energy resources and wind turbines.

Session 3: Advanced maintenance testing – challenges of testing in a live substation
Understand the challenges of maintenance testing in live substations and how the various features available in IEC 61850 can help to address those challenges. Consider testing for various topologies, understand how to use simulation and hierarchical control of test mode. The session will also address how the test source of InRef can be used to solve some of the issues. Requirements for modelling and engineering of the test system will be addressed.

Session 4: Advanced engineering process – how IEC 61850 is evolving to enhance interoperability of the engineering process
This session will examine the engineering process across the entire lifecycle of IEC 61850 systems. The challenges of the early implementations will be discussed and how user feedback is helping to gradually enhance the process. Learn, how extensions made to Ed 2.1 of IEC 61850 contribute to the improvement, understand how the specification process will evolve, to assure your automation system will work as expected. The session will address further ongoing work in CIGRE as well as EU-funded research projects.

Session 5: Cybersecurity Fundamentals for IEC 61850
Understand the basic cybersecurity issues and requirements for communicating with IEC 61850 protocols using the IEC 62351 cybersecurity standards, with a focus on authentication of connections, data integrity of messages and role-based access control for authorization of actions.

Session 6: Practical Demonstrations and Q&A
In this final session some practical demonstrations will bring to life the application of IEC 61850 and provide attendees with the chance to have all their questions answered in great depth and detail by the workshop leaders

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Conference Day One: Tuesday 21st March 2023

08:00 **Registration and Refreshments**

08:20 **Welcome Address from the Chair**

08:30 **Energy Transition:** Meeting net zero targets by driving DER and EV integration, understanding how this will transform the grid business, and determining the implications for future grid technologies and architectures
Roberto Zangrandi, Secretary General, **E.DSO**

09:00 **Regulation:** Evaluating how European regulatory guidelines are being translated into individual country regulatory frameworks to support the timely transition to net zero
Jan Kostevc, Team Leader Energy Infrastructure, **European Union Agency for the Cooperation of Energy Regulators (ACER)**

09:30 **Geopolitical Panel:** Working through the gas crisis collaboratively as a region to secure supply and stay on track for net zero
Daan Schut, CTO, **Alliander**
David Peters, CTO, **Stedin**
Michael von Roeder, Group CDO and CIO, **Elia Group**

10:15 **Digital Grid Operations:** Building the next generation digital grid operations to support real-time data
Bas Kruimer, Business Director, Digital Grid Operations, **DNV**

11:00 **Morning Refreshments, Exhibition and Networking**

11:30 **Standards:** Contributing to the development and deployment of standards to fast track the evolution of the grid with the full support of the market and energy ecosystem
Daan Schut, CTO, **Alliander**

12:00 **Digitisation:** Establishing an effective framework for leveraging both digitalisation and regulation to integrate DER assets and secure demand side response
David Peters, CTO, **Stedin**

12:30 **Cybersecurity Panel:** Adopting a proactive and holistic approach to cybersecurity across the grid to maintain safety standards
Janne Hagen, Special Advisor Contingency Planning, **NVE**
Aurelio Blanquet, Secretary General, **EE-ISAC**
Cevn Vibert, Senior Cybersecurity Compliance Manager, **Ofgem**

13:00 **Lunch, Exhibition and Networking**

	Digital Substation Track		SCADA & Control Room Track		Utility Telecom Track
14:30	**Regulation:** Understanding how regulation must evolve to better support and direct the pace of change and drive the digitalization of substations **Torsten Knop,** European Regulation, **E.ON**	14:30	**Regulation:** Working with regulatory bodies to increase the pace of change and encourage investment in data channels for better grid visibility **Stephan Beirer,** Project Engineer Offshore Grid Connection Systems, **GAI Netconsult**	14:30	**EU Agenda:** Examining the implications of a more interconnected and secure regional energy system for private utility telecom network roll out plans **Wolfgang Zeitler,** Senior Network Architect, **E.ON, ITU-T Q3/15**
15:15	**Gold Sponsor Session, Etap**	15:15	**Gold Sponsor Session, OSI**	15:15	**Gold Sponsor Session, Hitachi Energy**
16:00	**Afternoon Refreshments Exhibition and Networking**	16:00	**Afternoon Refreshments Exhibition and Networking**	16:00	**Afternoon Refreshments Exhibition and Networking**
16:30	**Standards:** Examining the latest IEC 61850 standardisation progress and the new requirements to help fine tune engineering processes and optimize operations **Christoph Brunner,** President of **it4power** & Convenor of **TC57 WG10**	16:30	**Customer Engagement:** Establishing secure and reliable channels for data sharing with a variety of customer organizations to maximize privacy and confidentiality and minimize liability **Ellen Diskin,** Head of the National Network, Local Connections Programme, **ESB Networks**	16:30	**Spectrum Access:** Achieving access to spectrum for wide-area private networks to foster rapid connection of renewable assets **Adrian Grilli,** Spectrum Group Manager, **EUTC**
17:15	**Software Defined Trends:** Determining how virtualization is enabling more efficient and reliable digital substation operations **Sander Jansen,** Product Owner, Virtual Substations, **Alliander**	17:15	**Flexibility Market:** Driving collaboration with flexibility market players and supporting data sharing through next generation SCADA platforms **Jan Vorrink,** Manager Control Centres/ System Operations, **TenneT**	17:15	**Offshore Connections:** Stabilising the telecom network connecting with offshore assets as the energy mix includes a higher proportion of renewables **Speaker to be confirmed**

18:00 **Roundtable Discussions:** during this session the audience breaks out into several smaller working groups, each focused on a specific theme that arose during the day's presentations. Each working group will comprise of representatives of the entire smart grid technical community to ensure a well-rounded and holistic discussion.

19:00 **Roundtable Feedback:** during this session each working group leader will provide a 5-min summary back to the wider group, highlighting the issues raised, the solutions discussed, and the recommendations made to take the matter to the next level.

20:00 **Networking Evening Reception:** time to relax after an intensive day of presentations and discussions! All participants are invited to join this networking reception where you will have the opportunity to enjoy the company of colleagues from across the European smart grid technical community, in a relaxed and informal setting.

23:00 **Close of Conference Day One**

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Conference Day Two: Wednesday 22nd March 2023

08:00 **Registration and Refreshments**

08:20 **Welcoming Address from the Chair**

	Digital Substation Track	SCADA & Control Room Track	Utility Telecom Track
08:30	**Data Types and Quality:** Identifying the data types that will deliver most value to operational processes and drive new levels of efficiency and better response times **Benjamin Petters,** Project Leader Innovation and Research Projects, **Avacon** **Navreet Dult,** Project Manager, **Avacon**	**SCADA-GIS Integration:** Achieving project transparency and workforce efficiency through the cybersecure integration of SCADA and GIS systems in the MV network **Walter Schaffer,** Head of Competence Centre Electricity, **Salzburg Netz**	**The 5G Opportunity:** Determining the optimal timelines for leveraging 5G technology to ensure significant technical benefit at justifiable costs **Tim Godfrey,** Technical Executive, **EPRI**
09:15	**Data Analytics:** Effectively managing the impact of increasing volumes and variety of data on analytics accuracy and reliability, to support asset visibility and maintenance **Mikko Holmgren,** Secondary Systems, **Fingrid**	**Cybersecurity:** Implementing a multilayered security solution to protect next generation SCADA infrastructure against the backdrop of rapidly changing vulnerabilities and threats **Alex Ștefanov,** Assistant Professor, **TU Delft**	**DER Integration:** Determining the optimal telecoms architecture and functionality to support effective monitoring and control of a DER integrated grid **Juergen Tusch,** Senior Telecommunications Executive, **Dr. Tusch Consulting**
10:00	**Morning Refreshments Exhibition and Networking**	**Morning Refreshments Exhibition and Networking**	**Morning Refreshments Exhibition and Networking**
10:30	**Technology Innovation Panel**	**Technology Innovation Panel**	**Technology Innovation Panel**
12:00	**Lunch, Exhibition and Networking**	**Lunch, Exhibition and Networking**	**Lunch, Exhibition and Networking**
13:30	**Cybersecurity:** Implementing rigorous cybersecurity standards and practices to ensure digital substations remain safe and secure environments that meet legal obligations despite a changing threat landscape **Rasmus Armas,** Head of Asset Management, **Elektrilevi**	**Meter Data as an Enabler of a Smarter Grid:** Meter data represents an untapped resource in the better planning, monitoring and operation of smart grids **Nikola Gedelovski,** Senior Manager, Digital Grid, **Ernst & Young** **Brian Collins,** Director, Digital Grid, **Ernst & Young**	**Cybersecurity:** Adapting to high levels of security required of utility telecom networks comprised of mixed technologies, legacy and new systems, and public and private infrastructure interfacing with OT systems **Speaker to be confimred**
14:15	**Standardised Design:** Standardising the design of new substations to optimize deployment timelines and reduce cost **Jorge Solar,** Protection and Control Engineer, **SP Energy Networks**	**Control Centre of the Future:** Identifying the features and functionalities that will effectively support a DER integrated grid that is subject to high levels of disturbances in the control centre of the future **Ralf Heisig,** Product Manager MCCS NextGen, **50 Hertz**	**Smart Metres:** Implementing a nationwide digital infrastructure on smart meters to achieve demand side response as the distribution network fluctuates **Frank Borchardt,** Senior Project Manager, **VDE FNN**
15:00	**Afternoon Refreshments Exhibition and Networking**	**Afternoon Refreshments Exhibition and Networking**	**Afternoon Refreshments Exhibition and Networking**
15:30	**Automatic Engineering:** Comparing the pros and cons of a range of automatic engineering processes and establishing a method that fully streamlines and optimizes your operations **Silvio Alessandroni,** Technology Innovation, **Areti S.p.A**	**SCADA-EMS:** Understanding how next generation SCADA-EMS systems are being developed to better support high volumes of real time data transfer, analysis and automated decision making **Gudjon Karason,** Project Manager, **Landsnet**	**5G for Protection, Automation & Control:** Using 5G and Edge Computing for network operations to improve capabilities and fast track grid virtualisation **Vincent Audebert,** 5G IoT & Telecom Expert, **EDF**
16:15	**Process Bus and LPITs:** Determining the lessons learned in the implementation of Process Bus within sub-transmission GIS-substations and distribution environments to determine optimal timelines for large-scale deployment and return on investment **Mika Loukkalahti,** Leading Expert, **Helen Sähköverkko Oy**	**SCADA-ADMS:** Implementing a future proofed SCADA-ADMS system to support DER integration, monitoring, and control **Luigi Cornario,** Head of Technology Development, **Areti S.p.A**	**Digital Substations:** Driving network optimization to carry higher volumes of mixed data traffic on a real time basis to support new operational requirements such as condition-based monitoring and predictive maintenance **Alberto Dognini,** Research Associate, **RWTH Aachen University**
17:00	**Close of Conference Day Two**	**Close of Conference Day Two**	**Close of Conference Day Two**

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Conference Day Three: Thursday 23rd March 2023

08:00 **Registration and Refreshments**

08:20 **Welcoming Address from the Chair**

	Digital Substation Track	SCADA & Control Room Track	Utility Telecom Track
08:30	**LV Substations:** Applying the lessons learned from the digitization of primary substations to secondary substations to achieve low voltage visibility and remote control **Sjors van der Heijden,** Strategist, Grid Innovation, **Stedin**	**AI & ML:** Applications of AI and ML and their integration into SCADA and ICT systems to maximise the accuracy and reliability of network operations using asset monitoring and management **Florian Ainhirn,** Technical Expert High Voltage Power Cable Technology, **Wiener Netze**	**SCADA Systems:** Developing a telecom network architecture that supports both centralised and distributed SCADA and control centre environments as the need to transfer high volumes of data in real time from a greater range of assets increases **Tim Joosten,** Project Manager Energy Consulting, **Qirion**
09:15	**Engineering and Configuration:** Translating the configuration process of IEC 61850 into engineering reality with an interoperable tool to fast-track the digital substation process **Thierry Coste,** Research Engineer, **EDF**	**Micro-Hubs:** Effectively managing the interconnection with micro-hubs to benefit from the influx of electricity as household demand intensifies **Mark Ossel,** Board Member, **OSGP Alliance**	**Fibre:** Making the business case for wider spread deployment of fibre, mapping out immediate and longer-term efficiencies and opportunities **Speaker to be confimred**
10:00	**Morning Refreshments Exhibition and Networking**	**Morning Refreshments Exhibition and Networking**	**Morning Refreshments Exhibition and Networking**
10:30	**Sensors:** Developing a roadmap for cost effectively integrating more sensors across the grid to provide visibility of asset health and support lifecycle management **Elisabeth Hufnagl,** Technician, Power Lines, **Wiener Netze**	**Communication Networks:** Understanding the implications of the data transfer requirements of next generation SCADA systems for shared network architectures and flexibilities **Antonello Monti,** Professor, Institute Director, **RWTH Aachen University**	**LTE:** Securing the licenses and partnerships required to run a reliable and cost-effective private LTE network that meets the demands of OT assets **Christian Freudenmann,** Manager M2M Products, **450 Connect**
11:15	**Communication Networks:** Building an enhanced communication network within the digital substation and beyond to optimize data quality whilst fulfilling network reliability and security obligations **Speaker to be confimred**	**Situational Awareness:** Developing a Goal-Directed Task Analysis of ISO Control Center Situational Awareness for Wide-Area Penetration of DER **Iony Patriota de Siqueira,** Technical Director & Vice President and Managing Director, **Tecnix E.A.R**	**Migrating to IP/MPLS:** Managing a smooth transition to IP/MPLS from SDH/PDH with no loss of service quality, reliability, and security in the process **Speaker to be confimred**
12:00	**Lunch, Exhibition and Networking**	**Lunch, Exhibition and Networking**	**Lunch, Exhibition and Networking**
13:30	**Digital Twin:** Clarifying how Digital Twin technology can enhance asset data, improve fault detections, and drive better decision-making **Maren Istad,** Research Scientist, **SINTEF**	**Blackout Event Prevention:** Determining new features and functionalities in the next generation SCADA systems to support better blackout event prevention and improve the resiliency of digital power grids **Fei Teng,** Senior Lecturer, **Imperial College London**	**Micro-Segmentation:** Determining the optimal scenario for applying micro segmentation in order to achieve a high capacity, wide coverage, secure network **Speaker to be confimred**
14:15	**AI&ML:** Utilizing AI and ML to effectively monitor substation assets and enhance maintenance and operational procedures **Santiago Gallego,** Partner & Associate Director, Asset Management 4.0 & Digital Operations, **Boston Consulting Group**	**Energy Storage Visibility:** Maintaining full visibility of a more dynamic grid consisting of high volumes of DER and energy storage systems **Thierry Coste,** Research Engineer, **EDF**	**Network Slicing:** Determining the benefits of network slicing of 5G networks and identifying opportunities for increasing reliability and speed of data transmission **Speaker to be confimred**
15:00	**Afternoon Refreshments Exhibition and Networking**	**Afternoon Refreshments Exhibition and Networking**	**Afternoon Refreshments Exhibition and Networking**
15:30	**Drones and Video:** Advanced Grid Inspections using Drones and AI enabled visual analytics on ground video to strengthen asset visibility and more accurately identify faults **Ricardo Jorge Santos,** Associate Director of Innovation Department, **E-REDES**	**Power Quality:** Maintaining the quality of power supply whilst increasing grid flexibility with DER connections by incorporating more data points across the smart grid infrastructure and beyond **Ranko Stojakovic,** Manager System Operator, **Stedin**	**Cloud Services:** Planning for a telecoms network architecture that will withstand the communication pressures of more grid services migrating to the cloud **Speaker to be confimred**
16:15	**AC/DC Conversion:** Using AC/DC conversion in the digital substation to connect high voltage DER assets to align the structure of data and reduce energy losses **Speaker to be confimred**	**CIM for System Integration:** Updating on how the standard being developed to support data exchange between a greater range of operational systems internally and flexibility market partners externally **Svein Olsen,** Enterprise Information Architect, **Statnett, IEC TC 57 WGs 13 & 14**	**Partnership with Public Telecom Providers:** Creating partnership models with public carriers that help achieve coverage targets whilst retaining utility grade reliability requirements **Sergio Ramos Pinto,** Deputy Director of Digital Platform Division, **E-REDES**
17:00	**Close of Conference Day Two**	**Close of Conference Day Two**	**Close of Conference Day Two**

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Cybersecurity Briefing: Friday 24th March 2023

08:00 **Registration and Refreshments**

08:20 **Welcoming Address from the Chair**

08:30 **Information Sharing:** Improving the resilience and security of the European energy infrastructure, by sharing trust-based information on threats, vulnerabilities, incidents. The role of EE-ISAC.
Aurelio Blanquet, Secretary General, **EE-ISAC**

09:15 **Security by Design:** Empowering technical workforces to specify security by design across all new infrastructure procurement
Speaker to be confimred

10:00 **Morning Refreshments and Networking**

10:30 **Cybersecurity Standards & Regulation:** Updating on the latest European regulation (NIS2 + CER + NCCS) for securing the power grid on a regional, national, and local basis, and implementing IEC 62443 in conjunction with IEC 62351 to fully secure the end-to-end power grid OT infrastructure
Anjos Nijk, COO, **ENCS**
Cevn Vibert, Senior Cybersecurity Compliance Manager, **Ofgem**

11:30 **Threat Landscape:** Understanding how threat actors and vectors are likely to evolve in the next 2-3 years and determining technical and organisational strategies to get ahead of these
Konstantinos Molinos, Security Expert, Programme Manager Smart Grid Security, **ENISA**

12:15 **Lunch, Exhibition and Networking**

13:30 **IT-OT Integration:** Redefining organisational structures to support the effective interworking of IT and OT security teams
Wolfgang Löw, CISO, **EVN**

14:15 **Securing Legacy Infrastructure:** Implementing a defence in-depth security architecture to protect the grid at all points of vulnerability, including substations, control centres, smart metres, and communication networks
Marius Stoggaenberg, Managing Director, **E.ON CERT**

15:00 **Afternoon Refreshments and Networking**

15:30 **Incident Response and Reporting:** Developing a robust framework to ensure the rapid isolation of the OT network during an IT cyberattack. Coordinating the workforce, reporting the evidence, and carrying out a thorough technical audit to drive improvement of the infrastructure
Joana Abreu, Head of OT Cybersecurity, **E-REDES**

16:15 **Offensive Cybersecurity:** Applying lessons learned from proactive cybersecurity preparedness programmes from the IT domain to OT infrastructure
Dmytro Cherkashyn, Head of Cybersecurity Development, **Brandenburg University**

17:00 **Close of Briefing**

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Our adjoining exhibition area provides the perfect environment for you to do this and more! Capped at 30 stands we ensure a focused and relevant display of the latest Substation, SCADA, Utility Telecom and Cybersecurity solutions for our audience and maximum visibility and interaction levels for our exhibitors.

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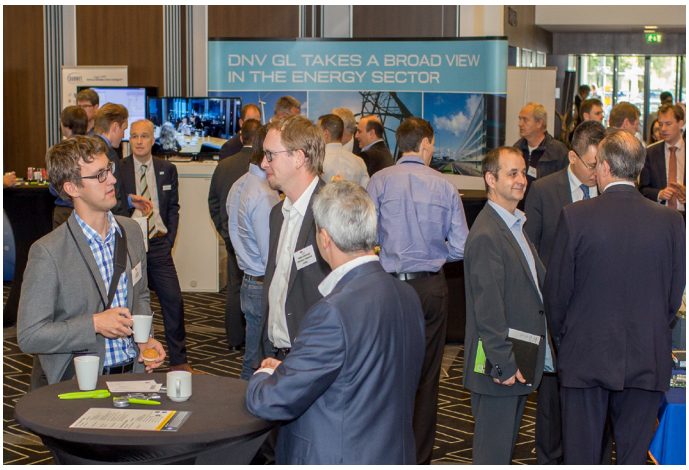

Testimonials

"Great event and a single opportunity to discuss together with peers and industry, the most critical topics in the strategy agenda of a digital DSO; digital substations, telecommunications, cyber security and SCADA challenges."

Aurelio Blanquet, Director of Grid Automation, **EDP Distribuicao**

"I was extremely sceptical of everything cloud related coming into the conference. However, after seeing many presentations on all the benefits and trends of cloud computing, I have started seeing use-cases in the company that could be related by private cloud."

Andres Kõiva, Senior Specialist, **Elektrilevi OÜ**

"Good mixture of already modified projects in the field of digital substation and future challenges. Great opportunity to network with the most relevant people and companies."

Fredi Belavic, Asset Manager, **Austrian Power Grid**

"A good arena to connect to people outside of your company and get an overview of what the main focus is in the different countries of Europe. Also great opportunity to connect with people that face the same problems that you have and in some instances already have solutions."

Pal Josten, Group Leader, **Eidsiva**

"Great mix of participants with insights about challenges that utilities are facing now and in the future. The conference is well organised and structured with relevant topics."

Oleg Gulich, Smart Grid Project Manager, **Caruna**

"The exchange with experts provided new inputs, and allowed for a reflection of any ideas. SGTech proved once more to be invaluable."

Michael Knuchel, Head of SAS Engineering, **Swissgrid**

"A lot of innovation and knowledge shown in the presentations, also thank you for the roundtables organised on day one of the conference."

Lievan Degroote, Head of Distribution Operating Centre, **Eandis**

Platinum Sponsor:

About DNV

DNV is the independent expert in risk management and quality assurance, operating in more than 100 countries. Through its broad experience and deep expertise DNV advances safety and sustainable performance, sets industry benchmarks, and inspires and invents solutions. Whether assessing a new ship design, optimizing the performance of a wind farm, analysing sensor data from a gas pipeline or certifying a food company's supply chain, DNV enables its customers and their stakeholders to manage technological and regulatory complexity with confidence. Driven by its purpose, to safeguard life, property, and the environment, DNV helps tackle the challenges and global transformations facing its customers and the world today and is a trusted voice for many of the world's most successful and forward-thinking companies.

In the energy industry

DNV provides assurance to the entire energy value chain through its advisory, monitoring, verification, and certification services. As the world's leading resource of independent energy experts and technical advisors, the assurance provider helps industries and governments to navigate the many complex, interrelated transitions taking place globally and regionally, in the energy industry. DNV is committed to realizing the goals of the Paris Agreement, and supports customers to transition faster to a deeply decarbonized energy system.

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Find out more at: www.hitachienergy.com

About OSI

AspenTech is a global asset management software leader accelerating and maximizing digital transformation initiatives and optimization solutions for capital-intensive industries. OSI – An AspenTech Business provides open, high-performance automation solutions to energy customers globally in the generation, transmission, distribution, utility and oil & gas industries.

Find out more at: www.osii.com or www.aspentech.com

About ETAP

ETAP leads the market with design, operation and automation solutions for electrical power systems. Providing unparalleled innovation, quality assurance & customer service, ETAP empowers engineers and operators with the most comprehensive and widely used energy management technology. Our customers leverage decades of power system expertise on a daily basis to realize their business's full efficiency and sustainability opportunities.
ETAP Offers an integrated transmission & distribution system planning and operations software on a progressive geospatial platform for modeling, simulating, analyzing, operating, and optimizing the performance of the grid. ETAP ADMS™ unifies SCADA, DNA & OMS functionality in a single modular solution.

Find out more at: www.etap.com

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About SISCO

Systems Integration Specialists (SISCO) deliver solutions for the energy industry by enabling support for open international standards, including IEC 61850, ICCP-TASE.2, IEEE COMTRADE, and CIM (IEC 61970 and IEC 61968)
SISCO technology is dominant in thousands of power systems worldwide, helping our customers build resilient, high-performance power system applications that are interoperable using widely adopted international standards.
SISCO products include source code, off-the-shelf interfaces, Unified Analytics Platform, and other tools to facilitate efficient systems integration.
SISCO services include use case and model consulting, systems integration, application development, training, support, and maintenance.

Find out more at: www.sisconet.com

About Siemens

Siemens Grid Software enables grid operators to accelerate and secure the energy transition in a sustainable and profitable way. We connect the physical and the digital world with an integrated OT and IT landscape along the entire value chain from planning through operations to maintenance – following its design principles of modularity, openness, user-centricity, interoperability, and resilience. We are committed to helping companies move towards the unfolding vision of an autonomous, digital grid that will thrive in an era of decentralized, less predictable power.
Siemens Grid Software is leading the energy transition worldwide in an holistic approach: from grid planning to grid operation towards the grid edge. More than 70% of the world's electricity consumption flows through infrastructure planned, analyzed, or operated by Siemens Grid Software. <de>coding the future of Energy – with Siemens Grid Software

Find out more at: www.new.siemens.com

About COPADATA

COPA-DATA is an independent software manufacturer that specializes in digitalization for the manufacturing industry and energy sector. Its zenon® software platform enables users worldwide to automate, manage, monitor, integrate and optimize machines, equipment, buildings and power grids. COPA-DATA combines decades of experience in automation with the potential of digital transformation. In this way, the company supports its customers to achieve their objectives more easily, faster and more efficiently. The family-owned business was founded by Thomas Punzenberger in 1987 in Salzburg, Austria. In 2020, with more than 300 employees worldwide, it generated revenue of EUR 54 million. A sales network of international distributors and 13 subsidiaries ensures that the software is marketed worldwide. More than 300 certified partner companies further support end users with the efficient implementation of the software, particularly in the key industries of food & beverage, energy & infrastructure, automotive and pharmaceutical.

Find out more at: www.copadata.com

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About OSI

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Find out more at: www.new.siemens.com

About Subnet

SUBNET Solutions Inc. (SUBNET) is a software engineering company that provides grid modernization solutions for the global utility industry. Our solutions software provides "multi-vendor" device support, directly in contrast to the "vendor specific" offerings by most large utility device vendors. SUBNET provides MORE OT Security & Capabilities which will comply with NERC, IEC 62351, IEC 62443, ISO 27002. Through our Unified Grid Intelligence (UGI) software solutions, SUBNET will improve the overall grid reliability, and future-proofing infrastructure for anticipated growth in grid monitoring.

SUBNET's Unified Grid Intelligence solutions are our 4 flagship products:

PowerSYSTEM Center™ | PowerSYSTEM Server™
SubSTATION Server™ | SubSTATION Explorer™

Find out more at: www.subnet.com

Exhibitors

About AFL

AFL provides industry-leading products and services to the electric utility, broadband, communications, OEM, enterprise, wireless and transit rail markets as well oil and gas, mining, nuclear, avionics, medical, renewable and intelligent grid. AFL's diverse product portfolio includes fibre optic cable, transmission and substation accessories, outside plant equipment, connectors, fusion splicers, test equipment and training. AFL's service portfolio includes market-leading positions with communications companies supporting inside plant central office, EF&I, outside plant, enterprise and wireless areas.

Find out more at: www.aflglobal.com

About Welotec

Founded in 1969, Welotec is a German-based company focused on industrial automation and digitalization. With a strong commitment to quality, innovation, and R&D, Welotec is a reliable partner for system integrators and end customers. The IEC 61850 Substation Server (RSAPC) supports DSO's and TSO's to digitalize and software-defined applications in the station bus and process bus. With virtualization and containerization of applications on the substation server, we create the basis for digital substations. The solutions are maintenance free for many years and can operate in the most demanding environments.

Find out more at: www.welotec.com

Media Partners

About IEC

The IEC (International Electrotechnical Commission) brings together 173 countries and 20 000 experts who cooperate on the global IEC platform to ensure that products work everywhere safely with each other. The IEC is the world's leading organization that prepares and publishes globally relevant international standards for the whole energy chain, including all electrical, electronic and related technologies, devices and systems. The IEC administers four conformity assessment systems that certify that components, equipment and systems used in homes, offices, healthcare facilities, public spaces, transportation, manufacturing, explosive environments and energy generation are safe, energy efficient and perform to the required standards. IEC work covers a vast range of technologies: power generation (including all renewable energy sources), transmission, distribution, smart grid & smart cities, batteries, home appliances, office and medical equipment, all public and private transportation, semiconductors, fibre optics, nanotechnology, multimedia, information technology, and more.

Find out more at: www.iec.ch/homepage

About EE-ISAC

The EE-ISAC is an industry-driven, information-sharing network of trust. Private utilities, solution providers and (semi) public institutions such as academia, governmental and non-profit organizations share valuable information on cyber security and cyber resilience. EE-ISAC aims to improve the resilience and security of the European energy infrastructure, by sharing trust-based information and enabling a joint effort for the analysis of threats, vulnerabilities, incidents, solutions and opportunities. EE-ISAC offers a community of communities to facilitate this proactive information sharing and analysis, allowing its members to take their own effective measures.

Find out more at: www.ee-isac.eu

About OSGP (Open Smart Grid Protocol) Alliance

The OSGP Alliance is the global non-profit association dedicated to promoting the adoption of the Open Smart Grid Protocol (OSGP) and infrastructure for smart grid applications towards a future proof modern smart grid. With a key focus on security, smart metering, smart grid, grid analytics, distribution network management and smart cities our members, including utilities, hardware manufacturers, service providers and system integrators, all share a common goal and vision: promoting open standards for energy demand side management, smart grid and smart metering systems.

Find out more at: www.osgp.org

Booking Form

SMART GRID FORUMS | SGTech Week 2023

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

5-Day Conference, Exhibition & Networking Forum

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Pricing & Discounts

	Very Early Bird Friday 16th December 2022	Early Bird Friday 27th January 2023	Standard Rate
5-Day Delegate - Fundamentals of IEC 61850 Workshop + 3-Day Main Conference + Cybersecurity Briefing	€3,695 + 21% VAT = €4,470.95	€4,095 + 21% VAT = €4,954.95	€4,495 + 21% VAT = €5,438.95
4-Day Delegate - 3-Day Main Conference + Fundamnetals of IEC 61850 Workshop	€2,895 + 21% VAT = €3,502.95	€3,195 + 21% VAT = €3,865.95	€3,495 + 21% VAT = €4,228.95
4-Day Delegate - 3-Day Main Conference + Cybersecurity Briefing	€2,895 + 21% VAT = €3,502.95	€3,195 + 21% VAT = €3,865.95	€3,495 + 21% VAT = €4,228.95
3-Day Delegate - 3-Day Main Conference	€2,195 + 21% VAT = €2,655.95	€2,395 + 21% VAT = €2,897.95	€2,595 + 21% VAT = €3,139.95
1-Day Delegate - Fundamentals of IEC 61850 Workshop	€795 + 21% VAT = €961.95	€895 + 21% VAT = €1,082.95	€995 + 21% VAT = €1,203.95
1-Day Delegate - Cybersecurity Briefing	€795 + 21% VAT = €961.95	€895 + 21% VAT = €1,082.95	€995 + 21% VAT = €1,203.95

Group Booking Discount – 30% discount for 5+ delegates and 50% discount for 10+ delegates from the same organisation at the same time

Terms & Conditions

Payment: for both in-person and virtual event delegate bookings, payment must be made at the time of booking, by credit card or paypal, or within 7 days by invoice and bank transfer, to guarantee your place. For sponsor and exhibitor bookings, the client will be invoiced 100% of the package fee on signature, and this fee must be settled by bank transfer within 7 days or before the first day of the event, whichever falls soonest.

Participant Inclusions: the delegate, exhibitor and sponsor fee for both in-person and virtual events covers attendance of the conference sessions, access to the exhibition area, and receipt of the speaker presentation materials. For in-person events this fee also covers provision of lunch and refreshments during the course of the conference and networking reception. This fee does not cover the cost of flights, hotel rooms, room service or evening meals.

Participant Restrictions: two or more delegates may not 'share' a place at the conference, separate bookings must be made for each delegate. The exhibitor and sponsor benefit structure detailed in the associated order form may not to be sub-divided, shared or distributed with any firm other than the signatory of the order form and therefore excludes but is not limited to partners, affiliates, clients, suppliers and associates. Using the conference as a platform to promote competing events is strictly forbidden, and failure to observe this clause will result in attendees being removed from the event without any entitlement to refunded fees or incurred expenses.

Event Cancellations: once booked delegate, exhibitor and sponsor cancellations cannot be facilitated. You may however nominate in writing, another delegate, exhibitor or sponsor to take your place at any time prior to the start of the conference. In the event that Smart Grid Forums Ltd postpones an event, the delegate, exhibitor or sponsor fee will be credited toward the re-scheduled event. If you are unable to participate in the re-scheduled event, 100% refund of your fees will be made but we disclaim further liability.

Event Alterations: it may be necessary for us to make alterations to the content, speakers, timing, venue, format or date of the event as compared with the original programme.

Fortuitous Events: Smart Grid Forums Ltd shall assume no liability whatsoever if an event is altered, re-scheduled, postponed or cancelled due to a fortuitous event, unforeseen occurrence or any other event that renders performance of this event inadvisable, illegal, impracticable or impossible. For the purposes of this clause, a fortuitous event shall include, but shall not be limited to: an Act of God; government restriction and/or regulations; war or apparent act of war, terrorism or apparent act of terrorism; civil disorder, and/or riots; curtailment, suspension, and/or restriction or transportation facilities/means of transportation; or any other emergency.

Data Protection: Smart Grid Forums Ltd gathers personal data in accordance with EU GDPR 2016 and we may use this to contact you by post, email, telephone, fax, sms to tell you about other products and services. We may also share your data with carefully selected third parties offering complementary products and services. If you do not wish to receive information about other Smart Grid Forums Ltd events or products from selected third parties, please write to use at: registration@smartgrid-forums.com

Governing Law: this agreement shall be governed and construed in accordance with the laws of England and the European Union.

VAT Treatment: the customer must supply their VAT number at the point of registration to ensure the correct VAT treatment for in-person and virtual events. For in-person events VAT is charged to all participants at the VAT rate of the country the event is taking place in as that is considered the place of supply. For virtual events VAT is charged only to those customers who reside in the UK since the location of the organiser and the place of supply to the customer are both in the UK. Please note that these VAT rules are specific to 'ticketed b2b events' and that VAT rules for other types of events supplied by other types of organisers will vary.

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