

POWER



The Annual European Power Systems Strategy,
Design, Technology and Financing Summit

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Message from the Summit Hosting Chairman



Dear Colleagues,

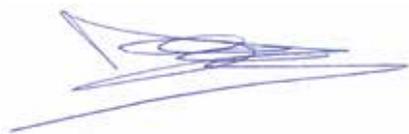
Originally devised a decade ago as a dedicated event to assist generators to formulate their power generation strategy, our summit has steadily evolved into a leading industry forum for navigating the evolution and transformation of the entire power-industry value chain. Therefore we are delighted to present an agenda that intends to give a strategic regulatory, financial and technological briefing regarding the anticipated trajectory and development of the European power industry towards its carbon free objective by 2050.

It is no doubt a very challenging time. Recently the US and the UK began to steer unilateral (or at least far less consensual) populist policies with a major political shift in US energy, climate and trade policy well in view. Fears now grow that the Paris CO2 reduction commitments of other major global CO2 polluters may well waiver in the face of powerful short-term political and economic incentives to lower production costs, increase competitiveness, and maintain living standards. This has left European leaders and policy makers, tasked with nurturing fragile markets and economies, to tread an increasingly fine line between adhering to directives, policies and ideals that aim to limit climate change, and provoking growing national sentiments against falling incomes and increasing inequality.

Presently energy utilities find themselves in a situation where they must carefully weigh the risks associated with rapidly engaging in reformulating their business models, infrastructures and technologies with potentially investing too much, too fast and too soon in sustainable production like wind and solar while achieving only very limited carbon reduction. Key links are also missing and prevent the optimisation of efficiencies within our distribution systems. The current deployment of green energy is creating considerable stress on our already challenged networks resulting in TSO operators forcing an overflow of cheap green energy to be stopped at certain times. Therefore without large scale storage solutions, further increase in wind and solar seems difficult and not at all efficient. While battery storage remains important to enabling truly efficient RES deployment, the need for large scale storage and diverse fuels are at least as important. Hydrogen for example can also offer itself as a solution in key areas but requires more political will and support as new infrastructure to facilitate its use will need to be built. As the case of Germany has made clear - there is a difference between attempting to maximise renewable energy output and actually achieving the intended goal of actually reducing CO2 emissions. A future carbon free society is only possible when traditional energy companies leave their historic habits and start thinking across the entire energy value chain to provide solutions themselves in terms of carbon free heat and mobility. Currently gas is being presented as short-medium term solution as the transition fuel without limiting its live spend and, as such, enabling our generation industry to continue along traditional lines while in principle attempting to stem coal and oil generation. Future policy therefore should look primarily to carbon reduction and then to stimulating sustainable energy development if as Europeans we wish to do our part in fulfilling the Paris climate agreement.

Despite the challenges however, innovators within and especially outside our traditional industry are succeeding in developing technologies that have already unlocked key areas of efficiency and enabled consumers to individually and collectively monitor, influence and even exert outright control of their energy consumption, and to generate, store and transmit electricity themselves. This has undoubtedly ushered in a new energy paradigm in Europe and we are delighted to host leading innovators, practitioners, investors and strategists forging new possibilities for our industry and our customers.

Yours sincerely



André Jurres
CEO
NPG Energy

Advisory Board Panellists & Speakers | Session Focus and Expertise



Dr. Ivan Androcec, Section Head of Investment Strategy and New Technology, HEP

Meeting Sustainable and Flexible Power Generation Demand in Croatia

Dr. Ivan Androcec has been working in the Croatian Electricity Utility (Hrvatska Elektroprivreda d.d.) since 2001 where he is currently Section Head of Investment Strategy and New Technologies Section in the Strategy and Development Department. He has PhD from the Faculty of Electrical Engineering and Computing, University of Zagreb, from 2012 as well as Diploma Study in Management from 2006. He has written more than 50 R&D international and domestic papers and involved in several projects.



David Assaad, Head of European Market Integration & Coupling, EPEX SPOT

Towards an Ever Closer European Power Market? Progress and Challenges Ahead for the Power Spot Market

David Assaad graduated in Economics and Political Science. He joined the energy sector at Powernext, the French Power Exchange, where he specialized on the issues of European spot markets integration and cross-border congestion management. David is working on the development of Intraday markets at EPEX Spot, the joint Power Spot Exchange established by Powernext and EEX. He is also a member of the Working Group for Power Markets within Europex, the Association of European Energy Exchanges, working actively in the stakeholders groups involving the main European associations of the electricity sector, Regulators and the European Commission on topics related to power market integration.



Dr. Julia Boucinha, Head of Planning and Control, EDP Servio Universal, S.A.

Measuring Energy Efficiency in Portugal

Julia Boucinha is currently the Head of the Planning Department in the Portuguese electricity regulated supplier (EDP Serviço Universal), one of the company's integrated into EDP group. After a long experience in studies on energy demand and also on efficiency and productivity analysis, she is recently concentrating on the evaluation of energy efficiency. Julia has also worked in the Portuguese Electricity Regulator, where she was involved in the preparation of the first Tariff Code, establishing allowed revenues and electricity tariffs for the different regulated activities. Julia has a degree in economics, from Loughborough University in the UK.



Terry Buckel, Managing Director, Astute

Terry is an accomplished professional Recruiter and Power Generation Engineer. He is the founder and CEO of ASTUTE Technical Recruitment, which specialize in the Power Generation industry across the globe. Prior to embarking on a career in recruitment, Terry was a Power Generation Engineer/ Manager in the Royal Navy, specialising in Nuclear steam raising plant, electrical generation and distribution.



Luis Colasante, Group Energy Manager & Head of Economic Research, Sogefi Group

The Principal Changes in the Last 5 Years in the European Power Market

Luis Colasante is Group Energy manager and Head of Economic Research at Sogefi Group. He is in charge of developing group energy strategies and policies, macroeconomic research for the Purchasing Commodity Department. He provides analysis on forex, interest, commodities as well as energy purchasing strategy and hedging. Prior to that he was the Lead International Energy Buyer (2012-2014). From 2009 – 2012 Luis was energy Manager at Exelcia and he worked at EDF (2008-2009). Luis has published works including an authoritative paper relating to energy saving (Ecole des Mines de Paris (2009). He has a Masters Degree in Quantative Finance from the Université Paris Dauphine (2014-2015), a Certificate in Quantative Finance I & II (2014) and a Masters Degree in Energy Systems and Policies from the Ecole nationale supérieure des Mines de Paris (2007-2009).



Dr. Alexander Conreder, Head of Business Development - Energy Solutions, EnBW

Power Storage Solutions: From Idea to Money

Dr. Alexander Conreder is senior manager of business development in energy solutions at EnBW Energie Baden-Württemberg AG - one of the big four utility companies in Germany. His main fields of expertise are strategic development, new business models and innovation management. Alexander Conreder started his career in the department of technology and innovation at a utility company in 2002 (MVV Energie AG Mannheim, Germany). Later, he was a research associate at the Institute of Technology Management at University of St. Gallen (Switzerland). He holds a Diploma in Engineering from Technical University of Hamburg, a Master of Business Administration from Steinbeis Hochschule Berlin and a Ph.D in Management from University of St. Gallen. His research focuses on open innovation and transition of German energy system.



Brian Evans-Mongeon, CEO, Utility Services

Comparing US Grid Operations to Europe Grid Operations

Brian Evans-Mongeon has over twenty-five years of experience in the electrical utility business working for both Green Mountain Power corporation as a power operations & administration manager and Vermont Public Power supply authority as a marketing services manager. As the president and CEO of Utility Services, he is responsible for oversight of constituent's ERO compliance and monitoring, ISO & NEPOOL markets, and renewable energy trading and associated activities. Brian has an associate de-gree in electric/electronic technology from Vermont Technical College and a B.S. in business administration from the University of Vermont.



Kristof Ferenczi, Partner, Kinstellar

Current Legal and Regulatory Challenges Facing Power Utilities

Kristof Ferenczi is a Partner of Kinstellar, located in Kinstellar's Budapest office, and is the firm-wide head of Kinstellar's Energy Practice. With over 15 years of practice, he has substantial experience in energy industry related transactions and regulatory issues, including matters in the electricity, natural gas, oil and district heating sectors, the implementation of major conventional power plant projects and renewable energy development projects, as well as advising on national and European energy regulatory issues and energy policy matters. He has gained considerable experience in the field of private M&A and privatisation transactions. He is an arbitrator of the Permanent Court of Arbitration for Energy of Hungary. Kristof holds a degree in law from the Eötvös Lorand University of Sciences, following on he pursued postgraduate studies for Diplôme d'Etudes Approfondies in Business Law at the Robert Schuman University, Strasbourg, France. He is a member of the Budapest Bar and speaks Hungarian, English, French and Italian.



Dr. Santiago Galbete, International Construction Project Manager, Acciona

Viability of a 100% Renewable Supply

During the last 12 years Santiago Galbete has shared his time between construction of Wind farms (South Korea, Australia, India, Germany, USA, Canada) at Acciona Energy and academic activities. As Spanish Electric System is strongly supported by Renewables sources (50% of the Power installed is renewable), Santiago Galbete went further and developed his Phd Study under the title: Viability of a 100% Renewable electric supply for Spain.



Miguel Gaspar Silva, Industry Director Utilities, Utilities Head EMEA, SAP

Creating Competitive Edge in the Power Utility Sector Through End to End Digitisation

Miguel holds a degree in Engineering and an MBA and has worked in the IT Industry since 1993. Since his start at SAP in 1997, Miguel participated in different implementation projects at key Utility Companies in Europe. Miguel is, since 2005, Industry Director at the Industry Business Solutions Team in SAP EMEA with responsibilities of Business Development across the entire region of Europe, Middle East, Africa. Since 2011 is the SAP lead for Utilities in the EMEA region. Miguel is an active contributor to different working groups in Europe that are shaping the future of Utilities Industry, in particular to the ETP SmartGrids and to ESMIG-European Smart Metering Industry Group where he drives focused initiatives.



Paul Giesbertz, Vice President, Regulatory Affairs, Statkraft

Integration of RES and Market Design

Paul Giesbertz joined Statkraft Markets in 2008. As Vice President Regulatory Affairs he is responsible for regulatory affairs in continental Europe with a focus on EU and German developments. Main topics are market design, EU Network Codes, cross-border trade and interconnectors. Before that, he worked as deputy manager for the Dutch energy regulatory office where he was responsible for wholesale power market issues like market design, European market integration, impact of market power and reliability of supply. From 1997- 2004 he has been Senior Consultant and Head of the Markets & Regulation group of KEMA Consulting in Europe, where he acted as project manager in several international projects, related to open access introduction, regulation, trading arrangements, technical codes and system operation. From 1988-1997 he worked for Sep, the former Dutch power pool and TSO.



Vasileios Gkountis, Senior Analyst, Genscape

Utilising Data & Analytics in Rapidly Changing Markets

Dr. Vasileios Gkountis has been involved in the analysis and modelling of power markets as well as asset optimization for more than a decade. Before joining GENSCAPE, he was working as a Sr. Quant analyst for DELTA's portfolio analytics team where he focused on creating optimization models and asset backed trading strategies as well as day-ahead and imbalance market analysis and modelling. Prior to that, he held positions with the Greek TSO and Market Operator.



Michele Governatori, Institutional & Regulation Affairs Director, Axpo Italia SpA

Dual Market or Hybrid Market Model? Capacity Remuneration or Long Term Contract as Solutions to the Adequacy and Missing Money Problems in Power Generation

Michele is Head of Public and Regulatory Affairs for Axpo Italia S.p.A. Before joining the Axpo group in 2004, he has worked for Eni, Edison, and for the Italian state-owned Single Buyer of electricity. After his BA in Economics at Bocconi University in 1996, he completed a Masters in Management of the Energy and Environment Industry of Eni Corporate University. Since 2013 he is President for the Italian Energy Traders and Wholesalers Association (AIGET).



Andreas Gürtler, Foundation Director, European Industrial Insulation Foundation

How the Energy Audit Services Deliver Multiple Benefits to the Power Sector

Andreas Gürtler is Director of the European Industrial Insulation Foundation. Starting in February 2009 his first task was to establish the EiIF as a non-profit foundation registered in Switzerland. Today the initiative has grown to a powerful European organisation and comprises the major insulation contractors and manufacturers as well as a number of SME insulation companies.



Emil Gurevitch, Security Software Engineer, OSGP Alliance

Smart Grids and "Dumb" Security

Emil Gurevitch is an experienced information security expert passionate about building a smart grid platform that meets tomorrow's expectations of safe and resilient critical infrastructure. He has deep technical knowledge in infiltrating mission-critical systems and a strong background in conducting vulnerability research, exploit development, and business oriented risk analyses. Emil Gurevitch is a capable project lead and communicator.



Tony Hearne, Manager, Renewables Planning, ESB Networks
Transmission & Distribution Interface Issues – An Irish Perspective

Tony Hearne began working with ESB in 1978. He has worked in the areas of Network Operations and Protection. In 2006 he was appointed Manager, Renewable Planning, where he managed the issue of connection offers for some 3000MW of generation connection, most of which were wind. More recently, he has taken up a more strategic role within ESB Networks and has been made responsible for the development of an Integrated Vision for an Active ESB Distribution Network.



Rainer Hinrichs-Rahlwes, Vice President, European Renewable Energy Federation
European Energy Policies Towards 2030 – Will the Energy Union be Based on Renewables and Efficiency?

Rainer Hinrichs-Rahlwes is an experienced Renewable Energy expert. He is Vice-President of the European Renewable Energies Federation, after being the federation's president from 2010 to 2014. Rainer is also a Board Member of the German Renewable Energy Federation. From 1998 to 2005, he was Director General in the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety, in charge of renewable energies and climate protection.



Walter Howard, CEO, Alter-NRG
Plasma Gasification of Waste in the EU: A Case Study on Large and Small Scale Solutions

As Chief Executive Officer of Alter NRG, Walter Howard brings extensive experience in business development, project finance, and operations within the electric and water utility industries. He has held Chief Executive Officer, Chief Operating Officer, Chief Financial Officer and Senior Vice-President positions with utility leaders including General Electric, US Generating (an affiliate of Pacific Gas & Electric and Bechtel), Noble Environmental Power, GE Capital and J Makowski Co Inc (partly owned by Duke Power). Mr. Howard's career spans more than 30 years of successfully executed technology development and implementation, project development and execution and project finance. He holds a Master's degree in Engineering from Cornell University and a MBA from Harvard University.



Paolo Iannucelli Head of European Antitrust and EU Law support, ENEL
State Aid and Competition Law Enforcement in the Energy Sector: the Long Term Contracts

Paolo joined Enel Group in 2008 working in the Regulatory and Antitrust department. He covered different positions both in Rome and in Madrid working on Italian, European and Latin American businesses. The focus of his activity has been the compliance with regulatory and antitrust framework working on important antitrust cases and on the compliance programmes carried out in the different Countries of the Group. He has been recently appointed as Head of European Antitrust and EU Law support. He has a legal background.



Andre Jurrens, Managing Director, NPG Energy
Summit Chairman

André Jurrens is the Managing Director and Co-founder of NPG energy, a company dedicated to sustainable energy production projects. Previously in 2001 André founded WattPlus (later known as Essent Belgium) to start selling energy on the Belgian market and actively work towards the successful liberalization of the Belgian energy sector. He is an accomplished expert in the areas of energy marketing and tele-communications and is frequently invited to participate on overseas meetings regarding the development of energy infrastructure. Since 2013 NPG energy has welcomed a new partner named Enovos as shareholder. Enovos is the leading energy company of the Grand Duchy of Luxembourg and its main shareholder is the Luxembourgish State.



Kaspar Kaarlep, Head of Digital Network Technology, Elektrilevi
Developing Advanced Analytics for Smart Distribution Operations

Kaspar holds an MSc in Engineering Physics and has in the past 6 years worked with various Smart Grid technology deployment projects in Elektrilevi. Currently, as Head of the Network Technology Department in Elektrilevi, Kaspar and his team are responsible for maintaining and developing SCADA/DMS, substation automation and telecommunications infrastructure.



Paraskevi Kasse, Officer in NIS | Secure Infrastructures & Services Unit, ENISA - European Union Agency for Network and Information Security
Cybersecurity Across the Electrical Power Industry

Her work in ENISA focuses on enhancing the cybersecurity posture of utilities in Energy sector (Electricity, Oil and Gas). Furthermore, she is dealing with security aspects of ICS/SCADA systems and cybersecurity aspects related to energy sector in the European NIS Directive. Paraskevi has been awarded a diploma in computer engineering and informatics, she holds a Msc in Information Science and Technology. Prior to joining ENISA, she worked as a security expert for 7 years at the Hellenic National CERT.



Steffen Kartenbender, General Manager, Innogy - iSWITCH
Key Considerations for the Leading Utility: Handling Huge Staff-Transfer

Steffen Kartenbender has an Engineering Background and has been working for the RWE Group since 2001. He dealt with strategic questions of the Power Generation Portfolio as well as contributing to Excellence solutions in O&M. He has developed and lead innovation approaches such as the RWE Power Barge project that was finalised in 2009. In the past 6 years he has been driving cross-country synergies in the power generation sector of RWE. Cultural integration, the foundation of RWE Generation SE and the implementation of Centers of Expertise in O&M are Steffen's most recent contributions. Before joining RWE he worked 2 years in an international Engineering firm of the Lahmeyer Group and 5 years with A.T. Kerarney Management Consulting. Steffen Kartenbender currently moved into innogy SE and leads the iSWITCH force. In this role he is responsible for "insourcing" external services via internal innogy and RWE- resources.



Markku Kostamo, Regional Vice President, Strategy and Business Development, Amec Foster Wheeler Global Power Group

Achieving Fuel Flexible Power Generation via CFB Technology

Markku graduated as M.Sc., Energy Technology from the Lappeenranta University of Technology in 1980. After that he worked 5 years at the university in some research programs. Markku has over 30 years experience in power business since entering Alstrom Boilers in Finland in 1985. He started in proposals, continued in projects and further in sales up to 1995 when Foster Wheeler acquired Alstrom Power Business. Markku was in different management positions and since 2006 in his present position as the Regional Vice President responsible for European sales in Foster Wheeler and since 2014 in Amec Foster Wheeler Global Power Group.



Thomas Kudela, Senior Energy System Architect for Power Hub Technology, DONG Energy

Flexibility From the Demand Side and its Commercialisation

As a regulatory specialist in the Nordic, UK and German electricity wholesale and Ancillary Services markets. Thomas Kudela is responsible for the regulatory management of DONG Energy's flexibility business. His major tasks are strategic development, regulatory impact assessment, as well as business processes and solution design. He has been working at DONG Energy since 2006 and has contributed to numerous projects in the context of Smart Energy, Demand Response and flexibility.



Pavla Mandatova, Advisor Retail Markets and Innovation, Eurelectric

Developing the Business Model for Utilities

Pavla Mandatova is Advisor in the DSO Unit of EURELECTRIC, the European electricity industry Association. She is responsible for several working groups of the DSO Committee whose focus is to represent the voice of European DSOs towards European Institutions and stakeholders. The working groups formulate proactive positions on issues such as network regulation, deployment of Smart Grids and smart meters, integration of renewable energy sources into distribution networks and development of European network codes. Prior to joining EURELECTRIC in 2011, Pavla worked as an EU affairs specialist in CEPS (the Czech transmission system operator). She holds a masters degree in international relations (Charles University in Prague).



Marcus Merkel, Senior Advisor to the Board of Management, EWE NETZ GmbH

EWE Approach to Double Grid Hosting Capacity by Using Flexibility of Distributed Generators in Smart Grid Operation

Marcus Merkel is a consultant/advisor for Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH (GIZ) in China studying Regulatory Pathways for Smart Grid Development in China. His current activities on EU level include being a member of the EU-Task Force Smart Grids, a member of the Joint DSO-TSO Working Group, Working Group on Distribution System Design (Eurelectric), and a convener of BTWG 143-2 "Mirror ENTSO-E Activities" (CENELEC). His current activities in Germany include being a member of the German Platform for Sustainable Energy Networks, Working Group "Intelligent Networks and Metering" (Federal German Ministry of Economic Affairs and Energy). From 2012 to present, Marcus has been a Senior Advisor to the Managing Director and a Senior Advisor to the Board of Management, advising the Managing Director and the Board of Management of EWE NETZ according to special tasks. He is mandated to participate in different expert and working groups in Germany and on European level and is an expert in grid operation, regulation management, network integration of renewable energy sources, energy policy, standardization, association work, smart metering and smart grids. Marcus holds a Master of Business Administration (MBA), part-time/executive, supported by EWE AG and a Diploma in Mechanical Engineering (Dipl. Ing.).



Diana Moneta, Head, Active Networks: Demand and Distribution Management Group, RSE | Ricerca sul Sistema Energetico SpA

Local Flexibility for the Grid

Diana Moneta is head of Research Group for Active networks: demand and distribution management in RSE Ricerca sul Sistema Energetico SpA. She received her Electrical Engineering degree in 2003 at Politecnico di Milano. Diana is currently involved in national and European projects on smart grids and integration of DERs and active demand. Author of more than 50 papers, she is the technical secretary of the Italian Electro technical Association AEE, member of Italian standardization committees and CIGRE working groups.



Dr. Christos Papadopoulos, Regional Director of Europe, Energy Exemplar

Investments and Strategic Analysis & Planning in European Energy Systems

Dr. Papadopoulos has more than 25 years Full Research & Academic experience accompanied with a related Industrial and Business Development experience in the wider Energy Technologies & Energy Markets' Sectors. He served for several years as an Assistant Professor in Natural Gas Technology & Management in Kavala Institute of Technology, Greece, where he also under-took various administrative posts as Head of Sector, Vice-Head of Department as well as Member of the Board of the Institute's Research Council and also as an Adjunct Professor in the National & Kapodistrian University of Athens (UoA). His key skills and specialties are in the fields of Oil, Natural Gas, Alternative Fuels, Thermo-Fluids & Power and in particular in relevant Technology Management and Economics, Uncertainty & Risk Analysis, Modelling and Data Quality Management, Measurements' Management (Smart-Intelligent-Complex), Applied Engineering Mathematics & Computing and Demand Forecasting & Response, where he has made a number of relevant publications that have received notable citations. He is currently Managing the Administration of Energy Exemplar's European Business Operation and Business Development, while he is also actively involved in the application and use of PLEXOS® Integrated Energy Model and its advanced Stochastic Programming features in European Energy Systems' and Markets' Integrated Resources, Investments' and Strategic Analysis, Planning and Optimisation.



Pietro Rabassi, Director Central European Markets, Nord Pool

Pioneering the New Frontiers of Power Markets and Trading in Europe

Pietro is Director for Central European Markets and responsible for expanding Nord Pool's business across Europe and creating greater value for its customers in Central Europe. He has a professional background in international business, and the public and academic sectors, particularly relevant to the energy and power trading environment and to his role at Nord Pool. Pietro studied engineering at Politecnico di Milano in Italy and at Ecole Polytechnique in France and pursued postgraduate business and government studies at Harvard University in the US.



Christian Redl, Senior Associate, European Energy Cooperation, Agora Energiewendewhere
The Power Market Pentagon - A Pragmatic Power Market Design for Europe's Energy Transition

Christian Redl is part of the European Energy Cooperation team at Agora Energiewende where he focuses on power market design in the context of the Pentalateral Energy Forum region (Austria, Belgium, France, Germany, Luxembourg, the Netherlands and Switzerland). A refined power market design, regionally embedded, shall enable both increased power system flexibility and options for cross-border cooperation to achieve energy transition targets efficiently. From 2012 to 2013, Christian worked for an international energy consulting firm in the Netherlands focusing on electricity market design, power system planning and renewables integration. Before that, he worked as a research associate at Vienna University of Technology from 2005 to 2011 where he was dealing with energy scenarios and decarbonisation roadmaps. Christian studied at Vienna University of Technology and holds a PhD in energy economics.



Olegs Ruksans, Market Analyst, Wholesale Trade Unit, Latvenergo AS
The Role of Electricity Storage in Demand Response

Olegs has extensive experience in business advancements with underlying experience in power industry and energy markets, including price modeling and forecasting, power market analysis, supplying market information for decision making additionally with systematic gathering, analysis of quantitative and qualitative data relating to power markets and services. He is also engaged in production and retail business positioning, applied trade strategies, market analytics and forecasting.



Dr. Gerd Schauer, Senior Technology Manager, VERBUND AG
Electrification of Transport and the Supporting Technologies

Dr. Schauer is Senior Technology Manager in the Competence Centre Innovation, Research and Development of Verbund (Hold-ing) and coordinates R&D activities. He graduated as an electrical engineer in 1981 from the Technical University of Vienna and gained his PhD in developed power electronics and converted EV (1988, University of Mining, Leoben). At Verbund he is involved in R&D-projects in the fields of new renewable energies (hydro power, PV, wind, biomass) and electric vehicles. His task is the general management of research activities at Verbund. He is member at National and European Associations/Working groups, made numerous publications to renewable energies, electric vehicles, and is a lecturer at University of Applied Science and works as consultant and project evaluator.



John Scowcroft, Executive Adviser Europe, Middle East and Africa, Global CCS Institute
Carbon Capture and Storage (CCS) Technology

John Scowcroft is Executive Adviser for Europe, the Middle East and Africa (EMEA). Prior to joining Global CCS Institute, John was Head of the Environment and Sustainable Development Policy Unit at Electricity EURELECTRIC, the association which represents the European electricity industry. In this role, John was responsible for all aspects of environmental and sustainable development policy in particular for global and European climate policy. John was actively involved in the ground-breaking EURELECTRIC greenhouse gas and electricity trading simulations (GETS). After a long career in the British Electricity Industry where he held a number of senior posts covering the whole range of employee relations issues, John joined EURELECTRIC's predecessor, UNIPEDÉ in 1991 as a Senior Adviser where he was responsible for environmental matters, and structural and organisation issues. In 1997, John became Head of the Environment and Sustainable Development Unit.



Lada Strelnikova, Director Asset Management, European Energy Efficiency Fund | Deutsche Bank
Lending and Investment Making Risks in the Current Power Economy

Lada is responsible for managing the Investment Advisor mandate for European Energy Efficiency Fund within Deutsche Bank's Asset Management Unit. Prior to taking this role Lada was involved in establishing and managing the Global Climate Partnership Fund focused on energy efficiency investments in emerging markets and was holding various strategic business development positions across Deutsche Bank units. She holds an MBA graduate from the Australian National University and holds a degree in finance and accounting from the Finance Academy under the Government of Russian Federation in Moscow.



Frauke Thies, Executive Director, Smart Energy Demand Coalition | SEDC
Business Models for Residential Demand and Flexibility

Since September 2015, Frauke is Executive Director of the Smart Energy Demand Coalition SEDC, the European industry association for demand-side flexibility. Frauke has been actively involved in European energy policy in Brussels since 2005, where she held different positions at Greenpeace and the European Photovoltaic Industry Association, SolarPower Europe. She also worked on secondments in Washington, D.C. and in New Delhi, India. Frauke holds a Master degree in Environmental Sciences from Leuphana University, Germany, and is currently following an Executive MBA programme at Vlerick Business School, Belgium.



François Trévoux, Director Energy, European Investment Bank
Investment Challenges in the EU Power Market: the Role of EIB and EFSI

François Trévoux joined the EIB in 1993 as an oil and gas industry expert. He is currently the Head of Division within the Bank's Project Directorate, responsible for the appraisal and monitoring of energy infrastructure projects financed by the Bank with a focus on electricity and gas grids and thermal power generation. Prior to joining the Bank's he worked for a leading oil and gas company (Total) for 13 years both in the EU and abroad, gaining significant experience in oil and gas exploration, production, processing and transportation; project management; planning and economics. A graduate Engineer, he holds the French Diploma "Ingénieur Civil des Mines".



Gerassimos Thomas, Deputy Director-General of the Directorate-General Energy, European Commission
The European Fund for Strategic Investments (EFSI): Mobilising Investments in the Real Economy

Gerassimos Thomas was appointed Deputy Director General in the Directorate-General for Energy in September 2014. Prior to his current assignment Gerassimos had professional assignments as: Director for Finance and cooperation with EIB Group, EBRD and IFIs in the Directorate-General for Economic and Financial Affairs (DG ECFIN), member of the EIB and EIF Board of Directors and observer at the EFSF Board (2009-14). He has studied economics, business administration and international relations in Athens, London and Brussels.



Jan Vorrink, Director National Control Center, TenneT TSO BV
TSO Utilisation of SCADA-EMS for Effective Management to Facilitate Smart Grid Evolution

Jan Vorrink is the manager of the National Control Centre of TenneT TSO BV which is the Dutch Transmission System Operator. Mr. Vorrink graduated with a Master in Business Administration and is an Engineer. He has been working for TenneT since 2002 as a Manager in several departments. The activities of his department include the operational Planning processes, Real time processes and the settlement processes.



Jan Vrins, Managing Director, Global Energy Practice Leader, Navigant
The Impact and Application of New Technologies and Innovations on the Power Sector

Jan Vrins heads Navigant's Global Energy practice. He has extensive management consulting experience in the energy sector and a history of growing businesses in diverse, global markets. Jan has more than 20 years' experience working with clients, advising executive leaders on developing and operationalizing their strategies to improve customer service, and increase revenue while decreasing costs. His work covers enterprise and operational strategy, operating model design, organizational restructuring, business process improvement, business transformation and change management, performance management, post-merger integration, and technology strategy and implementation. Jan's utilities industry experience includes investor-owned and government-owned utilities in North America, Europe and Latin America. He also has early career experience in the natural resources, oil and gas, aerospace, automotive and industrial manufacturing industries.



Dr. Holger Wiechmann, Senior Manager, Product Management B2C Non-Commodity, EnBW
The EnBW Pilot Project "Flexible Power-to-Heat": The EnBW Pilot Project "Flexible Power-to-Heat": Increasing Energy Efficiency and Providing Flexibility

In his fields of activity, Holger Wiechmann attends from the beginning on the liberalization of the energy markets. He is engaged in fundamental questions of the energy markets, market design and the energy transition with its increasing capacity for renewable energy and the necessity of flexibility to integrate it into the system.



Dr. Oliver Weinmann, Managing Director, Vattenfall Europe Innovation GmbH
Electricity Batteries

Oliver Weinmann studied Process Engineering at the RWTH Aachen, followed by a PhD on Solar Thermal Power Plants at DLR in Cologne. In 1992 he started his career at HEW in Hamburg and changed to Vattenfall in 2003 as Head of Innovation Management. In parallel, between 2004 and 2007, he was Managing Director of Vattenfall Europe Renewables GmbH and built up of the renewable energy business in the Vattenfall Europe Group. In 2010 he was appointed as Managing Director of Vattenfall Europe Innovation GmbH. As a subsidiary of Vattenfall GmbH the enterprise focuses on business development and steering of activities in the field of product and technology development.



Eric Woittiez, Senior Innovation Manager, Essent
Demand Response in Practice: Being an Aggregator in Residential Domain

Eric Woittiez has been working as a demand response expert at the Innovation department of Essent (part of innogy) since 2012, focusing on residential flexibility and electric vehicles. He holds a Master's degree in Applied Physics from the Delft University of Technology. Prior to joining Essent, Eric has been working as a sustainability consultant at PwC and Squarewise.



Stephen Woodhouse, Director, Pöyry
A Customer Focused Energy Business: Positioning in a Changing World

Stephen joined Poyry in 1999. He is an expert in complex market and contractual arrangements, ranging from the creation of market trading rules to the negotiation of contractual arrangements between commercial players. He specialises in the economics of generation, transmission and interconnection; market regulatory policy across Europe and the Irish electricity and gas markets. He managed the project to draft the Trading and Settlement Code for the Irish Single Electricity Market and is responsible for Poyry's multi-client projects addressing intermittency in the UK and Ireland and latterly across Northern Europe. He leads Poyry's business development in the inter-related areas of intermittency, smart grids and market design, and continues to contribute to the debate on appropriate models for transmission charging and access. He has worked with project developers in negotiating the regulatory and legislative frameworks for market entry and has an excellent understanding of how unforeseen risks can be catered for. Prior to joining Poyry, he was an Economic Modeller for Ofgem and has an MA in economics from the University of Cambridge.



Sebastian Ziegler, Market and Process Development Energy Economics, 50Hertz Transmission GmbH
Practical Approach to TSO Implementation Codes: Assessment and Predictions

Sebastian Ziegler has been working in the energy sector for more than 10 years. During the last 5 years he has actively participated in the development of the balancing markets for 50Hertz. As vice-convenor of the working group Ancillary Services of ENTSO-E as well as member of the drafting team of the Network Code on Electricity Balancing he is also involved in the European market development. Next to Balancing, Sebastian is also involved in international congestion management initiatives (e.g. TSC).



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Lead Energy Transition Partner

Navigant recognizes that the energy landscape is evolving. We help our clients operate in challenging environments and situations that require agility and flexibility. Currently, seven key trends are having a profound impact on our utility clients' businesses:

- The power of customer choice and changing demands
- Rising number of carbon emissions reduction policies and regulations
- Shifting power-generating sources
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- Regionalizing of energy resources
- Merging industries, new entrants, and colliding giants
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Lead Power Exchange Sponsor

Nord Pool is Europe's leading power market, working with our customers to deliver efficient, simple and secure trading. We offer day-ahead and intraday trading, clearing and settlement, regardless of our customers' size or location. With a reputation for responding to market needs, We work hard to develop new and innovative features in our proven unified trading and clearing platform to meet customer requirements. And we harness the power of Application Programming Interface (API) technology, integrating our customers' systems with ours to allow seamless and fully automated trading. Nord Pool recently announced shortened Gate Closure Time for the German intraday market, enabling customers to trade upto 20 minutes before delivery across the various German TSO areas. We operate in the Nordic and Baltic regions, Germany and the UK, are a Nominated Electricity Market Operator (NEMO) in 13 European countries and also service power markets in Poland, Croatia and Bulgaria. A total of 380 companies from 20 countries trade with us. In 2015 Nord Pool had a total turnover of 489 TWh traded power. Nord Pool has offices in Oslo, Stockholm, Helsinki, Tallinn and London

For more information please visit: www.nordpoolgroup.com

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Lead Legal Advisory Services Partner

Kinstellar is a leading independent law firm in Emerging Europe, Turkey and Central Asia, with offices in Almaty (Kazakhstan), Belgrade (Serbia), Bratislava (Slovakia), Bucharest (Romania), Budapest (Hungary), Istanbul (Turkey), Kyiv (Ukraine), Prague (the Czech Republic) and Sofia (Bulgaria).

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Kinstellar's well-established energy practice has been involved in many of the most significant energy deals across the region. Our experts deliver industry-specific knowledge to a diverse range of clients including power plant operators, multinational energy holding companies, energy traders, project companies and consortia, lenders and governments. Our extensive experience gives us a balanced perspective and enables us to anticipate problems and find constructive solutions.

We are engaged in a wide range of mandates throughout the region, typically including:

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- energy project finance
- energy regulatory issues
- long- and short-term energy trading contracts
- major energy infrastructure developments, including large power plant projects
- CO2 trading-related issues, including CO2 management agreements
- renewable and alternative energy sources

Learn more about our expertise, locations and what sets us apart at www.kinstellar.com



Pöyry

The Pöyry story began in 1958 when over the course of one night Dr Jaakko Pöyry agreed to do the basic engineering for the Äänekoski sulphate pulp mill in Finland. From that night on Pöyry grew. First to Sweden and the other Nordic countries followed by Europe, the Americas and eventually to the rest of the world. By its tenth anniversary, the company had produced nearly 10 000 drawings and had a staff of more than 100. And by its twentieth anniversary the company had produced more than 75 000 drawings and had a staff of more than 1000. As the company grew the culture did too. But what set Pöyry apart already in the early years was integrity. Clients could always count on Pöyry engineers and consultants for advice. The advice was honest and straightforward, always the best, most thought out advice available. Pöyry is an international consulting and engineering company. We serve clients globally across the energy and industrial sectors and provide local services in our core markets. We deliver management consulting and engineering services, underpinned by strong project implementation capability and expertise. Our focus sectors are power generation, transmission & distribution, forest industry, chemicals & biorefining, mining & metals, transportation and water. Pöyry has an extensive local office network employing about 6,000 experts. Pöyry's net sales in 2015 were EUR 575 million and the company's shares are quoted on Nasdaq Helsinki (Pöyry PLC: POY1V).

For more information please visit: www.poyry.com



Energy Exemplar

Energy Exemplar is an ISO 9001:2008 certified company for quality software development of the best-in-class Electric and Gas Market Simulation Software with a customer base spanning the globe and a track record of success spanning more than 15 years. We develop, implement and support the PLEXOS® Integrated Energy Model software. Our dedicated team provides the highest standards of technical support, consulting, data and implementation services to our customers. Energy Exemplar continues to push the envelope with extensive investment in research and development. We constantly strive to offer the most comprehensive software solutions to our customer base and ensure that we are first-to-market with the latest advances in optimisation-based electric and gas market simulation technology.

For more information please visit: www.energyexemplar.com



Genscape

In an era of big data, increasing volatility in energy markets, and declining margins, how do you manage your risks and make the right trading and strategic decisions? Genscape provides a unique range of fundamental data and analytical solutions to give your business unparalleled insights into European power markets. Part of the Daily Mail and General Trust group, we deliver innovative solutions across a number of asset classes including: Oil, Power, Natural Gas and LNG, Agriculture, Petrochemical and NGLs, and Maritime. Our PowerRT platform brings together a vast array of quality and fit-for-purpose fundamental European power market data. This includes data from our proprietary monitoring systems which constantly track production and interconnection in real time. The EPSI platform provides fast and easy-to-use scenario analysis and price forecasting capability for short term trading analysis through to longer term planning and strategy. Genscape is uniquely placed to meet your power market data and analysis needs, whether you are analysing market movements, actively trading the markets, or evaluating longer term strategic opportunities.

For more information please visit: www.genscape.com



Amec Foster Wheeler

The Global Power Group of Amec Foster Wheeler offers a full range of steam generator equipment, clean air technologies, after-market products and services to the power, industrial, and waste-to-energy sectors. GPG's global engineering, manufacturing, and procurement network delivers high-quality, cutting-edge products and services cost competitively, no matter where the project is located. Our main product is Circulating Fluidized Bed (CFB) boiler, emerging among the leading combustion technologies for industrial and utility-scale solid-fuel-fired power plants, especially in combustion of wide variety of solid fuels, such as bituminous and anthracite coals, lignite, petroleum coke, RDF, peat and biomass. The Global Power Group is part of Amec Foster Wheeler, concentrating on design, delivery and maintenance of strategic and complex assets and employs around 40,000 people in more than 55 countries worldwide in four key markets: oil & gas, mining, clean energy, and environment & infrastructure.



EXAA

EXAA - Energy Exchange Austria, is Austria's power and environmental exchange seated in Vienna. EXAA was founded on 8th June 2001 and opened for spot market trading in electric power on 21st March 2002. Since then, EXAA has developed into a major instrument for efficiently exploiting the trading possibilities of the liberalized energy markets of Central Europe. With the early (10:15) day ahead auction for the combined German/Austrian bidding zone as the core service, market oriented innovations have been introduced continuously over the years. By integrating 15min products in the day ahead auction EXAA serves the increasing needs for balancing in an unparalleled fashion since September 2014. Also by launching the first exchange traded green power product the Austrian Exchange is a pioneer in this area. As the next major step, EXAA in its capacity as nominated electricity market operator (NEMO) will also provide access to the 12:00 day ahead auction within the framework of pan European market coupling. Combining access to both, the early 10:15 and the coupled 12:00 auction with one exchange membership and with respective collateral netting features, EXAA is a highly efficient place to trade and optimize spot positions for all kinds of electricity market players.

For more information please visit: www.exaa.at



Alter NRG

Alter NRG plasma gasification system is an environmentally sustainable platform that will utilize the countries waste streams to create renewable energy. The Alter NRG plasma gasification system, utilizes its proprietary Westinghouse Plasma (WPC) torches, and excels by gasifying difficult waste streams (Municipal Solid Waste, Hazardous Waste, and Industrial Waste, Medical Waste etc.) to create a low-cost syngas that can either be utilized for industrial scale power generation, liquids production or as a fossil fuel replacement. Alter NRG offers three types of plasma gasifiers, which can process from 100 to 1,000 tonnes per day of waste per gasifier.

For more information please visit: www.alternrg.com

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At Astute we combine first-class technical recruitment expertise with a passion for our sectors and an unrivalled knowledge of the best qualified Engineers on the market. Offering both Contract and Permanent Recruitment solutions, we are the industry experts when it comes to Operations & Maintenance, Engineering, Procurement & Construction and Commissioning of major Power, Waste and Utility / Process Plant. We have developed a superb reputation when it comes to the supply of Senior Management, Engineers and Technicians to Commission, Operate and Maintain large process plant, in particular Power Stations, Biomass and Energy from Waste plants.

For more information please visit www.astutetechnical.co.uk



Lumpi-Berndorf

Lumpi-Berndorf specializes in technologies for overhead conductors. Ingenious technology and uncompromising professionalism are not the only prerequisites for meeting differing customer requirements. The special solutions developed and exactly oriented to the needs of customers by both partners for over-headline construction also prove a high degree of flexibility. Past decades brought severe increases in energy requirements, liberalisation in the electricity market led to changed load flows. Enhanced distribution- and transmission performances are thus considered top priorities. Lumpi-Berndorf has mastered this challenge and supports you with sophisticated special constructions for the economic uprating of existing overhead lines. Among these – fully attuned to an environmentally correct product design – are coated camouflage conductors in various colours. Together with a wide range of standard overhead conductors, which Lumpi -Berndorf can offer conform to practically all international standards, a high share of production comprises special lines. This includes high-temperature resistant, black-coated conductors for an additional increase in transmission performance, environmentally friendly green-coated conductors, low sag conductors for high-temperature operation and OPGW/OPPC. In order to overcome the corona problem we also provide hollow as well as conductors with hydrophilic surface.

For more information please visit: www.lumpi-berndorf.at

Power Europe Associations & Partners



EURELECTRIC

The Union of the Electricity Industry-EURELECTRIC is the sector association which represents the common interests of the electricity industry at pan-European level, plus its affiliates and associates on several other continents. The association was formed as a result of a merger in December 1999 of the sister sector bodies UNIPED and EURELECTRIC. EURELECTRIC's mission is to contribute to the development and competitiveness of the electricity industry and to promote the role of electricity in the advancement of society. As a centre of strategic expertise, EURELECTRIC identifies the common interests of its Members. EURELECTRIC is then able - through in-depth and specialized research into the market place, technologies, legislation, etc. - to assist its Members in formulating common solutions to be implemented and in Coordinating and carrying out the necessary actions.

For more information please visit: www.eurelectric.org



Energy Regulators Regional Association

ERRA - Energy Regulators Regional Association is a voluntary organization comprising of independent energy regulatory bodies primarily from Europe, Asia, Africa, Middle East and the United States of America.

Purpose & Objectives

- To improve national energy regulation in member countries;
- To foster development of stable energy regulators with autonomy and authority; • To improve cooperation among energy regulators;
- To facilitate the exchange of information, research, training and experience among members and other regulators around the world.

For more information please visit: www.erranet.org



European Industrial Insulation Foundation

Eiif The European Industrial Insulation Foundation is a European non-profit foundation registered in Switzerland. The Eiif was established in 2009 by the European contractor's association FESI and 11 other Partners. It comprises Europe's leading insulation contractors and manufacturers. As a neutral and non-profit institution it promotes insulation as a top-of-mind method of enhancing sustainability and profitability. It strives to raise the awareness of the growing, much needed benefits of insulation. Since its foundation Eiif has established itself as a resource for industries that need to reduce CO2 emissions and save energy

For more information please visit: www.eiif.org



DERlab European

DERlab European Distributed Energy Resources Laboratories e.V. (DERlab) is an association of over 30 leading laboratories and research institutes in the field of distributed energy resources equipment and systems. The association develops joint requirements and quality criteria for the connection and operation of distributed energy resources (DER) and strongly supports the consistent development of DER technologies. DERlab offers testing and consulting services for distributed generation (DG) to support the transition towards more decentralised power systems.

For more information please visit: www.der-lab.net



COGEN Europe

COGEN Europe is the European association for the promotion of cogeneration. Its principal goal is to work towards the wider use of cogeneration in Europe for a sustainable energy future. Cogeneration or Combined Heat and Power (CHP) is the most efficient way to deliver heating, cooling and electricity. It is based on the simultaneous production of electricity and thermal energy, both of which are used. The central and most fundamental principle of cogeneration is that, in order to maximise the many benefits that arise from it, systems should be based on the heat demand of the application. COGEN Europe promotes the widespread development of cogeneration in Europe and worldwide. To achieve this goal, COGEN Europe works at the EU level and with member states to develop sustainable energy policies and remove unnecessary barriers to implementation. The COGEN Europe network covers the whole of the European Union, Central and Eastern Europe, and also includes Japan, Australia and the United States. COGEN Europe's status is that of a Belgian non-for-profit organization.

For more information please visit: www.cogeneurope.eu



OSGP Alliance

OSGP Alliance, founded in 2006 as the Energy Services Network Association, is an independent global, non-profit association that promotes the adoption of the Open Smart Grid Protocol (OSGP) and related services/infrastructure for smart grid applications. Members include utilities, software, hardware and service providers, and solution integrators that share a common goal and vision for promoting open standards for energy demand side management, smart grid and smart metering systems. OSGP Alliance, founded in 2006 as the Energy Services Network Association (ESNA), is an independent global, non-profit association that promotes the adoption of the Open Smart Grid Protocol (OSGP) and related services and infrastructure for smart grid applications. Members include utilities, software, hardware and service providers, and solution integrators that share a common goal and vision for promoting open standards for energy demand side management, smart grid and smart metering systems. OSGP Alliance promotes the change in perspective of the current metering business, from selling isolated units, into offering interoperable smart meter management systems as an embedded element in the total value chain of energy sales and distribution. In addition, AMM, based on OSGP AMI architecture, offers added value in achieving the political objectives such as; saving energy and reducing CO2 blast and ensuring stability of the grid. Last but not least it will also contribute to more consumer satisfaction, in supporting a better understanding of energy consumption and as basis for a competitive energy purchase.

For more information please visit: www.osgp.org



GeoConnexion

GeoConnexion International and GeoConnexion UK bring you the latest news and stories plus reports from geotechnology industries in UK, Europe, the Middle East, Africa, North America and Asia. Coverage of topics such as 3D Visualisation, Remote Sensing, LiDAR, Cloud, Mobile Mapping, Navigation with emphases on healthcare, public safety, retail, the environment, utilities, surveying, LBS, transport/ logistics, telecommunications and more.

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