

The backbone of Europe's energy future



GRIDS 2010
BERLIN
ORGANISED BY **EWEA**

Event Guide

23 - 24 November 2010
bcc - Berliner Congress Center
Alexanderstr. 11
10178 Berlin, Germany

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Conference statement

GRIDS 2010: The backbone of Europe's energy future

"Energy is a key driver for growth and a central priority for action: we need to complete the internal market of energy, build and interconnect energy grids, and ensure energy security and solidarity. [...] We need to make frontiers irrelevant for pipelines or power cables. To have the infrastructure for solar and wind energy."

José Manuel Barroso, President of the European Commission; State of the Union 7 September 2010

Europe's electricity transmission networks are vital infrastructure: backbones of Europe's economy, prosperity and quality of life. EWEA's Grids 2010 Conference highlights the urgency and importance for Europe's future of major grid investments.

National electricity markets have been undergoing an important transition towards increased liberalization and a more integrated European energy market.

The European Union has set objectives to fight climate change and increase the share of renewable energy to 20% by 2020, requiring an increase in the share of electricity from renewables from 15% in 2005 to 34% in 2020. It also aims to reduce greenhouse gases by 80-95% by 2050. Wind power is fundamental to meet those objectives.

In order to create a properly functioning European energy market, and to integrate the

large amounts of renewable energy – including offshore and onshore wind energy – expected by 2020 and 2030, very large investments for grid expansion are needed. ENTSO-E's pilot Ten-Year Network Development Plan estimates that grid expansion investments in the range of €23-28 billion are needed over the next five years.

While Europe's transmission system operators are willing and able to make such investments, the European Union, Member States, and regulators must make it a priority to: set appropriate regulatory and financial frameworks to facilitate - cross-border interconnection capacities, key European corridors for electricity trade, offshore grids, and even a future supergrid.

Therefore, the EU, its Member States, regulators and industry need to acknowledge the urgency and importance of major grid investments, by:

- speeding up permitting for grid investments, for the permitting process to be completed within a maximum of five years,
- supporting cross-border regulation, cooperation and coordination for speedy implementation of European integrated wholesale electricity markets,
- supporting Transmission System Operators and others to finance new infrastructure in the capital markets through appropriate European regulation, EU funds and European banks.





New and better grids are essential if we are to exploit Europe's enormous wind energy resources

Arthouros Zervos,
President, European Wind Energy Association (EWEA) and GRIDS 2010 Conference Chair

From alarm clocks to computers, electricity powers our everyday lives. Power is something that, we have taken for granted for decades. But do we ever stop to imagine the extensive and intricate network of cables that channel electricity into our homes and offices?

I wonder how many people are truly aware that Europe's electricity grids are facing a crunch time. Far too little has been invested in grids: they need upgrading, extending and inter-connecting in order to secure our electricity supply, meet renewable energy and greenhouse gas emission reduction goals and bring down the price of electricity. Indeed, the European network of transmission system operators for electricity, ENTSO-E, has said that investments to the tune of €23-28 billion are needed in grids over the next five years.

Not only that, but the whole electricity market is based on a structure of national electricity markets that is no longer sufficient for our needs in a time when countries are increasingly interdependent for electricity and energy supplies are international. Electricity should be traded freely in Europe, just like the free movement of goods and people in the EU single market.

Today, in 2010, we have an opportunity to change the way electricity grids function. This is the right time to build a grid that will power Europe for generations ahead. A modern, Europe-wide grid that connects offshore and onshore wind farms with consumers, that connects all countries and regions of Europe into one supergrid.

The wind industry will be gathering in Berlin at the GRIDS 2010 conference and exhibition to discuss building the future for Europe's electricity structure. The event will explore the existing problems, from the financial to the regulatory, in grid development and form the solutions that will shape the electricity supplies of the future, based on renewable energy sources.

Such a grid, operating in a properly functioning EU electricity market and able to cope with the large amounts of wind power that will come online over the coming years, would make cross-border trade in electricity not only possible, but the norm. With these highways of electricity, power prices will be driven down as wind's low marginal costs push more expensive and polluting fossil fuels out of the system.

EWEA's latest research on grids, to be released at GRIDS 2010, shows just how the current state of Europe's electricity grids, and condition of Europe's electricity markets, is holding back greater amounts of clean wind power from coming into your home and your workplace.

In short, new and better grids are essential if we are to exploit Europe's enormous wind energy resources and to enable a fast transition to a renewable energy economy. I am very much looking forward to discussing this potential with you at GRIDS 2010.

Conference programme ●●●●●

Tuesday, 23 November 2010

► 08:00 - 09:00 WELCOME COFFEE (catering areas)

► 09:00 - 10:30 (Room: C01)

OPENING SESSION

The opening session will feature leading political figures and senior industry representatives, who will share their vision for the development of Europe's electricity grids in the coming decades.

Delegates will gain an insight into the future plans and priorities of the EU institutions, national governments and regulatory/TSO associations.

Speakers



Jochen Homann,
State Secretary, Federal Ministry
of Economics and Technology,
Germany



Katherina Reiche,
Parliamentary State Secretary,
Federal Ministry of Environment,
Germany



Daniel Dobbeni,
President, European
Network of Transmission
System Operators for
Electricity (ENTSO-E)



Mariusz Swora,
General Assembly Member,
European Energy Regulators
(CEER & ERGEG)



Arthouros Zervos,
President,
European Wind Energy
Association (EWEA)

► 10:30 - 11:00 COFFEE BREAK (catering areas)

► 11:00 - 12:30 (Room: C01)

PANEL: A PAN-EUROPEAN GRID VISION FOR 2020, 2030 AND 2050

The political momentum for grid development in Europe is evident. However, a joint European approach towards developing new transmission lines and practical solutions to overcome present planning and administrative barriers are still missing.

This panel session will discuss a vision of grid development for the coming decades, which ensures the coordinated planning, design and construction of a new electricity infrastructure for Europe. Panellists will debate differing scenarios for the period up to 2050, and consider which steps are necessary to implement such a vision from financial, regulatory and technical perspectives.

Moderator



Thomas Ackermann,
Energynautics, Germany

Speakers



Christian Kjaer,
CEO, European Wind Energy Association (EWEA)



Gunnar Lundberg,
Markets Chairman, EURELECTRIC



Pier Narbuurs,
CEO, KEMA



Konstantin Staschus,
Secretary General, European Network of Transmission System Operators for Electricity (ENTSO-E)



Jean-Arnold Vinois,
DG Energy, European Commission

► 12:30 - 14:00 LUNCH (catering areas)

sponsored by
ALSTOM

Conference programme ●●●●●

Tuesday, 23 November 2010

► 14:00 - 15:30 (Room: C01) 🗓

A NEW POWER GRID FOR EUROPE: WHO SHOULD PAY?

In this session, selected speakers will present their views on the financial and regulatory issues related to electricity grid developments. Issues such as financing of investments, cost recovery, cost sharing and cost allocation schemes, and incentive regulation will be addressed. This interactive session will allow debate between speakers and the audience.

Chairs

Pascale Fonck, ELIA System Operator, Belgium

Kai Schlegelmilch, German Ministry for the Environment (BMU), Germany

Speakers

The NorGer project: Connecting renewables

Jens Harenberg, **NorGer KS, Germany**

Achim Zerres, **Bundesnetzagentur, Germany**

The new Energy Infrastructure Package proposed by the Commission: an overview and next steps

Jean-Arnold Vinois, **DG Energy, European Commission**

► 14:00 - 15:30 (Room: B09) 🗓

TRANSMISSION TECHNOLOGIES: CURRENT AND FUTURE NEEDS

In 2050, electricity generation will mainly be based on renewable energies with high degree of fluctuation. Energy not only has to be transmitted as bulk power flows from decentralized in-feed points to far-away load centres, but also between different regions in order to geographically balance generation and load. This session will reflect upon different options and barriers in transmission technologies such as long-distance transmission, meshed HVDC grids, alternative frequency, options for line reinforcement, and will also focus upon the importance of distribution level (ancillary services, load flexibilities, storages) for supporting the future operation of the electricity system.

Chairs

Matthias Müller-Mienack, 50Hertz Transmission GmbH, Germany

Stephanie Ropenus, German Wind Energy Association (BWE), Germany

Speakers

Compatibility of HVDC and inverter controlled WTG - needs for simulation models, standards etc.

Jesper Hjerrild, **DONG Energy, Denmark**

Offshore wind plants - grid interconnection challenges

Goran Drobjnak, **GE Global Research Centre, Germany**

Power electronics - key technology for the grids of the future

Raphael Görner, **ABB, Germany**

DESERTEC, SEATEC and Super Grid Prospects of Grid Development

Wilfried Breuer, **Siemens, Germany**

Transmission needs - what matters beyond power flows

Karsten Burges, **Ecofys, Germany**

► 15:30 - 16:00 COFFEE BREAK (catering areas)

▶ 16:00 - 17:30 (Room: C01)

INTERCONNECTING EUROPE'S ELECTRICITY GRIDS

The achievement of the EU energy policy goals, and more specifically the expected RES increase in 2020, requires a significant reinforcement of the interconnection capacities especially between the Northern and Southern part of Europe and the Central continental area. The session will aim at discussing all the technical, financial, political and regulatory aspects which will govern the realisation of these projects via lessons learned from recent studies, interconnection plans and concrete examples of projects through the North Sea and in the Mediterranean region.

Chairs

Jean Verseille, RTE, France

Paul Wilczek, European Wind Energy Association (EWEA)

Speakers

Overview of EWIS/TradeWind.

Frans van Hulle, *European Wind Energy Association (EWEA)*

COBRA Cable - Interconnector between the Netherlands and Denmark

Antje Orths, *Energinet.dk, Denmark*

Mediterranean interconnection projects: view of a TSO faced with several important interconnections

Juan Manuel Rodríguez García, *Red Eléctrica de España, Spain*

Connecting continental/UK wind resources to Norwegian hydro – interesting possibilities

Lars Audum Fodstad, *Statkraft Energy AS, Norway*

▶ 16:00 - 17:30 (Room: B09) 

OPTIMISING WIND POWER PRODUCTION: CLUSTERING AND VIRTUAL POWER PLANTS

This session will discuss innovative projects and ideas relating to the grid integration of wind power plants, with a focus on clustering and virtual power plants. Presentations will show current activities in the EU and best practice solutions for short-term forecasting, wind farm control clusters, and national and regional control strategies.

Chairs

Jörg Müller, *Gesellschaft für Netzintegration e.V. GENI, Germany*

Speakers

Active contribution of wind farms to system reliability

Kurt Rohrig, *Fraunhofer IWES, Germany*

A regional vision on wind generation impact

Francois Boulet, *Coreso, Belgium*

TWENTIES: and integrated approach to wind integration in the grid

Jose Luis Mata, *Red Eléctrica de España, Spain*

▶ 17:30 - 18:30 FRIENDS OF THE SUPERGRID RECEPTION (Level C, bcc)

▶ 20.00 - 23.00 CONFERENCE DINNER (Axica)

For more information about the reception and dinner, please see page 20.

Conference programme ●●●●●

Wednesday, 24 November 2010

► 08:00 - 09:00 WELCOME COFFEE (catering areas)

► 09:00 - 10:30 (Room: C01) 🌐

ONSHORE GRID PLANNING AND POLICY

Grids in time! This is the prerequisite for a future electricity supply based on a steadily growing renewables share of the European electricity mix. New and additional grids are the backbone of a renewable energy world, but political and public support to build new grids is not always easy to achieve. The same applies to the planning process – and the planning process takes time. To foster public acceptance we need to carefully investigate the volume of new grid lines which have to be built. In Germany this was done with the dena I and dena II grid study. This session will focus on the outcomes of these projects, and evaluate how they could also apply to other European countries.

Chairs

Thorsten Herdan, VDMA, Germany

Speakers

Ten-Year Network Development Plan

Sebastien Lepy, RTE, France

Effective/efficient onshore grid integration

Michael Ritzau, BET, Germany

Renewable Power Generation – implications on the power grid

Armin Schnettler, RWTH Aachen, Germany

► 09:00 - 10:30 (Room: B09)

SMART GRIDS

SmartGrids is the backbone that will connect the conventional and renewable generators to empowered customers through smarter networks. This session will examine the demonstration projects selected by the TSO, DSO and suppliers/retailers community for the next 10 years, and identify which of these are linked to Wind Energy generation. Key grids industry stakeholders will provide their insight into these projects and consider whether the consumers are the main winners, as well as focusing on the benefits for the EU as a whole.

Chairs

Maher Chebbo, SAP, France

Speakers

Grid Initiative

Livio Gallo, ENEL Distribuzione, Italy

Technological challenges for a smarter transmission grid

Vicente Gonzalez Lopez, Red Eléctrica de España, Spain

The role of SMART GRIDS in future energy supply systems

Jürgen Schmid, IWES Fraunhofer, Germany

Grids, markets and regulation: smart past, smarter future?

Jorge Vasconcelos, NEWES, New Energy Solutions, Portugal

► 10:30 - 11:00 COFFEE BREAK (catering areas)

▶ 11:00 - 12:30 (Room: C01) 

PLANNING A NORTH SEA SUPERGRID

The 10 countries of the North Seas Countries' Grid Initiative (NSCOGI) are currently aiming to sign a Memorandum of Understanding by the end of this year. The mission of the NSCOGI is to facilitate coordinated offshore electricity infrastructure development with a joint commitment in view of large offshore wind power development in the region.

This session will focus on the challenges that have to be addressed concerning grid architecture, planning and authorisation, regulatory frameworks, cooperation and coordination. It will try to point out possible solutions and identify the role of the different actors to make the North Seas offshore grid a reality.

Chairs

Andrea Hercsuth, DG Energy, European Commission

Speakers

Offshore grid design and policy recommendations based on techno-economic modelling

Achim Woyte, 3E, Belgium

Facilitating a Supergrid : the North Seas Countries' Offshore Grid Initiative

Jan Hensmans, Ministry of Economy, SMEs, Self-employed & Energy, Belgium

North Seas Offshore Grid

Teun van Biert, TenneT, The Netherlands

Regulatory aspects for a European Supergrid

Ana Aguado, Friends of the Supergrid (FOSG)

▶ 11:00 - 12:30 (Room: B09)

POWER SYSTEMS OF THE FUTURE

The future goal of a 50% or a higher share of variable renewable energy generation as relates to electricity consumption challenges the flexibility of the power system. This session will discuss the impact of renewable generation uncertainties on the electricity system, including the electricity market. We will debate the flexibility contribution of electrical vehicles as shiftable demand or electricity storage, the benefits and limits of electricity storage in general and whether or not storage is a cornerstone technology of a flexible power system.

Chairs

Paul Kreutzkamp, 3E, Belgium

Johannes Schiel, VDMA Power Systems, Germany

Speakers

Summary of modelling increased reserve requirements and balancing

Hannele Holttinen, VTT, Finland

Results from the ITM project Intelligent Transport Management

Frans Nieuwenhout, ECN Wind Energy, The Netherlands

Role of storage in integrating wind: a case study in Ireland and some general observations

Mark O'Malley, UCD, Ireland

The WindSpeed project: Assessing future Offshore Grid Infrastructure

Lachlan Cameron, ECN Wind Energy, The Netherlands

Conference programme

► 11:00 - 12:30 (Room: B06) 

ELECTRICITY MARKET DESIGN

Massive introduction of renewables may challenge some of the current market concepts. The EU electricity market was not designed with energies such as wind power in mind, with its specific technical characteristics of generation, its often remote locations from consumption centres and its insensitivity vis-a-vis the market price due to low running costs and guaranteed revenues in some support schemes.

This session will address ways and means to develop the market design and regulation in order to facilitate RES integration. These include day-ahead/intraday markets, gate closures, balancing, reserve markets, and cross-border market integration. In addition, large-scale off-shore systems pose special requirements regarding market rules and regulation.

Chairs

Juha Kekkonen, ENTSO-E/Fingrid Oyj, Finland

Martin Crouch, The Council of European Energy Regulators (CEER)

Speakers

Challenges when designing market rules for an off shore grid

Klaus Thstrup, *Energinet.dk, Denmark*

Market integration and market design prerequisites to achieve the 2020 RES targets

Marcel Cailliau, *EURELECTRIC*

Transmission and System Operation' and EU '2020 - 2050' targets: how to make them dance the same?

Jean-Michel Glachant, *Florence School of Regulation, European University Institute, Italy*

Martin Finucane, *Department of Communications, Energy and Natural Resources (DCENR), Ireland, (tbc)*

► 12:30 - 14:00 LUNCH (catering areas) sponsored by 

► 14:00 - 15:30 (Room: C01)

GRID CONNECTION REQUIREMENTS

Adequate harmonised network connection requirements for wind power and other generation are an essential element in the development towards a secure European power system with a high penetration of renewables. The session presents and discusses recent ENTSO-E activities towards a European Grid Code, highlights issues from industry experience with present connection requirements such as voltage control, FRT, and capabilities of wind technology to assist network operation. It brings forward the viewpoints of the European wind industry on harmonisation of connection requirements, and more generally on the way a relevant set of requirements can be established in a dialogue with the European TSOs.

Chairs

Frans van Hulle, European Wind Energy Association (EWEA)

Speakers

Pilot Grid Code

Ralph Pfeiffer, *Amprion, Germany*

Solutions for voltage control in wind power plants: Acciona's multi-grid code compliance experience

Gustavo Quiñonez, *Acciona Energía, Spain*

Why is the dialogue between network operators and wind industry actors so crucial?

Rémi Tournier, *REpower, France*

Realising individual power station solutions with wind turbine generators

Volker Schulz, Nordex Energy GmbH, Germany

The European template for Grid Connection Requirements for wind power (GGCF)

Peter Christensen, Vestas Wind Systems, Denmark

▶ 14:00 - 15:30 (Room: B09) 

SOCIAL ACCEPTANCE AND PLANNING

The electricity transmission network is widely recognised as a key enabler for a pragmatic, efficient, and economical approach to the realisation of the EU energy policy targets. Yet, its developers are facing significant obstacles related to overly lengthy and non-harmonised permitting procedures that jeopardise the timely arrival of new transmission infrastructure. This session will contribute to this debate by discussing the issue of social acceptance of transmission projects: why is the process today inefficient? How can we ensure an adequate dialogue of all impacted parties? What are the examples and consequences of delayed projects? What concrete measures can be put forward?

Chairs

Graeme Steele, European Network of Transmission System Operators for Electricity (ENTSO-E)

Speakers

Social acceptance of new overhead-lines - results of a study and a dialogue process

Peter Ahmels, DUH, Germany

Partial undergrounding as a facilitator to bring renewable power to consumers in Europe

Marcello Del Brenna, Member of the Europacable Executive Board

Enhancing social acceptance: lessons to learn from the “South-West Coupling Line”, an inner-German transmission line project of European interests

Olivier Feix, 50Hertz Transmission GmbH, Germany

France-Spain: a long path to social acceptance

David Landier, RTE, France

▶ 14:00 - 15:30 (Room: B06)

JOBS, EDUCATION AND TRAINING [WORKSHOP]

This workshop will address the future issues of *jobs, education and training* as they relate to grid integration. Due to the increasing variability of electricity supply, and the progressive shift of the energy mix towards lower-emission and more flexible energy technologies, the daily work of the system operators has changed. Experts of the grid industry and research institutes will outline specific strategies and measures needed for the rapid evolution of the European electricity system and discuss them with the audience. The outcome of this workshop will be a joint document stating the needs and requirements of the quickly-evolving grid sector.

Notes



In addition to the main conference programme, two side events will take place at GRIDS 2010. They are open to all registered participants free of charge.

Tuesday 23 November 2010
13:30 - 15:30

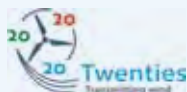
Room A05

TWENTIES: a demonstrative project of wind power-related technologies

TWENTIES is an EU-funded project which aims at the large-scale integration of wind power in the electricity grid. Through six full scale demonstrations, the project examines several barriers to accommodating the wind energy required to reach 2020 targets. Demonstrations will address:

- System services (voltage and frequency) provided by wind farms
- The feasibility of virtual power plants combining wind farms operation and flexible generation and loads
- Increasing grid flexibility by coordinating power flow control devices and using dynamic line rating according to actual wind production
- Configurations and critical components for secure offshore meshed networks
- Strategies for balancing large offshore shut downs under stormy conditions
- Streamlining the permitting process of offshore wind farms

The experimental results will be integrated into European analyses to assess the economic impact and the scalability of the solutions.



Wednesday 24 November 2010
09:00 - 15:00

Room A05

SEANERGY 2020: Baltic Sea regional workshop

The IEE-funded SEANERGY 2020 project aims to formulate and promote concrete policy recommendations on how to best deal with and remove maritime spatial planning (MSP) obstacles to the deployment of offshore power generation.

This workshop seeks to address the specificities and concerns of MSP in the Baltic Sea region and will also disseminate findings to date of the national and international maritime spatial planning regimes.

This workshop will be of interest to MSP authorities at all levels, planners, regulators, TSOs, renewable energy project developers and utilities, shipping and maritime transport organisations, fishing associations, environmental NGOs and representatives of other users of the sea.

The programme features presentations and round table discussion to promote interaction.



Intelligent Energy  Europe






For on-site questions about side events, please call John McSweeney: +32 487 783 851.

Discover five reasons to join EWEA

For further information visit
www.ewea.org/membership

EWEA is the voice of the wind industry, actively promoting the utilisation of wind power in Europe and worldwide

Did you know? As an EWEA member you receive 5 key benefits:

-  Access to the largest network of wind industry professionals
-  Key information about the wind sector
-  Significant discounts on exhibition stands, delegate fees and advertising
-  Improved visibility and usage of Member of EWEA logo
-  Representation at the highest level



EWEA

THE EUROPEAN WIND ENERGY ASSOCIATION

Event venue:

Berliner Congress Center – bcc
Alexanderstr. 11
10178 Berlin
+49 30 23 80 67 50
www.bcc-berlin.de

► *For a plan of the venue, please see pages 38-39*

► Accommodation

For last-minute hotel bookings or changes to existing bookings made via the GRIDS 2010 Secretariat, please contact Cristina Vellar, +32 2 566 99 33.

► Badges

All participants are requested to wear their badges throughout the event. Badges are marked according to the type of pass purchased, and participants are not admitted to the conference or exhibition without their badge.

Should you lose your badge, please go to the registration desks for assistance.

► Berlin

Berlin, capital of Germany, is located at the heart of Europe and is the largest city in Germany.

If you would like to extend your stay, or require more information about the city, the Berlin Tourist Information Office offers information in several languages:
www.visitberlin.de, +49 30 250025.

The nearest Berlin Tourist Information Office to the venue can be found at:

ALEXA-Shoppingcenter (ground floor),
Grünerstraße 20, 10179 Berlin-Mitte
Mon-Sat 10:00-20:00

Other offices are located at:
Hauptbahnhof (Main Station),
Europaplatz, 10557 Berlin
Mon-Sun 10:00-20:00

Neues Kranzler Eck (near Zoo/Ku'damm),
Kurfürstendamm 21,
Passage, 10719 Berlin-Charlottenburg
Mon-Sat 10:00-20:00

Brandenburger Tor (Brandenburg Gate),
Pariser Platz / south wing, 10117 Berlin-Mitte
Mon-Sun 10:00-18:00

Humboldtbox (on observation platform),
Schlossplatz, 10179 Berlin-Mitte
Mon-Sun 10:00-18:00

► Catering

Catering is available in the catering areas at the following times:

Welcome coffee

08:00 - 09:00 Tuesday 23 and
Wednesday 24 November

Coffee breaks

10:30 - 11:00 Tuesday 23 and
Wednesday 24 November
15:30 - 16:00 Tuesday 23 November

Lunch

12:30 - 14:00 Tuesday 23 and
Wednesday 24 November

► *For the location of the catering areas, please see the venue plan on pages 38-39 and the exhibition floor plan on pages 36-37.*

Practical information

► Cloakroom and luggage facility

There is a cloakroom available (free of charge) on Level A.

► Conference proceedings

The proceedings of the conference, including all relevant information, papers, presentations and photos are available via the proceedings website, which is updated daily.

The link to the website will be sent by email to all conference delegates shortly after the conference.

For more information about the proceedings, please contact Louise Lilja:
louise.lilja@ewea.org, +32 2 213 18 26.

► Currency & credit cards

The unit of currency in Germany is the EURO. Current exchange rates can be found at www.xe.com/ucc.

Cash points are widely available. There is no cash point at the bcc but several just across the street.

All major credit cards are widely accepted throughout Berlin in shops, restaurants, hotels, banks, etc., although not always in taxis. Foreign exchange facilities can be found at the airport, railway station and major banks.

► Theft/lost of credit card

Eurocard-Mastercard: 0800 819 1040,
+49 69 79 33 19 10
Visa: 0800 811 8440, +49 69 79 33 19 10
American Express: +49 69 97 97 1000
Diners Club: + 49 69 661 66 123,
+49 180 5 07 07 04 (during office hours)

► Emergencies

Onsite: In the case of an accident, fire or sudden illness the bcc front office (+ 49 30 23806555) must be informed immediately.

Emergency call: 112

Police: 110

Fire Brigade and Ambulance: 112

Medical emergency service: +49 30 31 00 31

Dental emergency service: +49 30 89 00 43 33

German Red Cross: +49 30 85 00 55

Ambulance: +49 30 31 00 31

Emergency Poison Help-Line: +49 30 192 40

Confidential Help-Line: 0800 111 02 22

In Berlin pharmacies can be found all over the city. For overnight service there are always one or two pharmacies open in every district.

► Exhibition opening hours

The exhibition is open during the following times:

Monday 22 November: 19:00 - 21:00

Tuesday 23 November: 08:00 - 18:30

Wednesday 24 November: 08:00 - 16:00

► Internet

A cyber café is available at the venue which provides internet access and printing facilities. Please see the floor plan on pages 38-39 for the exact location. Free Wi-Fi access is also available to all participants throughout the venue.

► Language

The conference language, including all presentations, is English.

► Lost and found

At the venue:

For any items lost or found whilst in the venue, please visit the registration desks or the bcc Front Office (located on Level B).

In Berlin:

Central lost and found office (Zentrales Fundbüro)

Platz der Luftbrücke 6
12101 Berlin-Tempelhof
Phone +49 30 75 60 31 01

BVG lost and found office

Potsdamer Straße 180/182
10783 Berlin-Schöneberg
Phone +49 30 19 449

► Meeting rooms

If you have reserved a meeting room and have any queries, please contact Aleksandra Nowak: +32 2 213 18 00, aleksandra.nowak@ewea.org.

► Opening hours in Berlin

Banks: generally, banks in Germany are open on weekdays from 8:00 to 16:00.

Shops and shopping centres: shops open from 8am to 8pm from Monday to Saturday. Many shopping centres and department stores stay open until 10pm, but the opening hours can differ.

► Parking

There is a parking close to the venue at P1 Alexa-Center (just across the street). The fee per day is EUR 10. For more information, please visit the bcc front office located on Level B.

► Press

A press conference is scheduled immediately after the Opening Session on Tuesday 23 November at 10:30 in Room A05 (Level A).

A fully-equipped press room is at the disposal of journalists throughout the event on Level A. Computers, refreshments, background information and press packs are available.

► *For the location of the press room, please see the venue plan on pages 38-39.*

► Speakers and session chairs

The Speakers' Room (Level A) is available to all speakers who wish to work on or upload their presentations. Staff are on hand to assist with any queries from speakers or session chairs.

Speaker briefings take place in the Speakers' Room at the following times:

Day	Session start time	Briefing time
Tuesday 23 November	14:00 & 16:00	13:30
Wednesday 24 November	09:00 & 11:00	08:30
	14:00	13:30

All session chairs and speakers must be present at the briefing.

The Speakers' Room is open:

Tuesday 23 November: 08:00 - 18:00
Wednesday 24 November: 08:00 - 16:00

► *For the location of the Speakers' Room, please see the venue plan on pages 38-39.*

Practical information

► Telephone

The international access code for Germany is +49. Remove the '0' from the city/area code when dialing internationally. The city/area code for Berlin is 30.

We request that all conference delegates put their mobile phones on silent mode during all conference sessions.

► Travel & transport

How to get to the bcc Berliner Congress Center

By train - S-Bahn

Lines S3, S5, S7, S75, S9. The train stop you must get off is Alexanderplatz.

For more information, please contact S-Bahn
Berlin: +49 30 29 74 33 33
www.s-bahn-berlin.de

By metro/underground

U-Bahn: lines U2, U5, U8. The metro stop you must get off is Alexanderplatz.

By Tram

Lines M4, M5, M6, M48, N92.

For more information on the undergrounds/
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Welcome reception

Monday 22 November, 19:00 - 21:00
Venue: bcc Berliner Congress Center
Dress code: Smart

Conference delegates, exhibitors and visitors are invited to the welcome reception to inaugurate the exhibition. Take the opportunity to visit the exhibition ahead of the conference and to meet your peers during this welcome reception.

The reception is free of charge for all participants. Please make sure you have your badge with you as it will be required to gain entrance.



Friends of the Supergrid reception

Tuesday 23 November, 17:30-18:30
Venue: Level C, bcc Berliner Congress Center
Dress code: Smart



This reception will take place at the Friends of the Supergrid Pavilion on Level C of the bcc. It will provide participants with a chance to relax with a drink following the conference sessions and to learn more about this new venture. The Friends of the Supergrid is a group of companies and organisations with a mutual interest in promoting the policy agenda for a European Supergrid.



USEFUL INFO

Conference dinner

Tuesday 23 November, 20:00 - 23:00, Axica
Venue: Axica, Pariser Platz 3, D-10117 Berlin
Dress code: Formal

Axica is housed in DZ BANK's representative building in the German capital – directly on Pariser Platz, a stone's throw from the Brandenburg Gate and the government district. Situated at the historic divide between East and West, the building, which was designed by architect Frank O. Gehry, combines organic forms and surprising details, creating the perfect setting for the GRIDS 2010 gala dinner.

Please note: The conference dinner is only open to ticket holders. If you have not already purchased a ticket in advance, it is possible to buy one at the registration desks.

How to reach the venue by public transport/taxi:
 City Railway + Underground Station (S+U): Brandenburger Tor
 Underground Station (U-Bahn): Mohrenstrasse
 Buses: 100, 200, 147 and TXL Airport Express
 Taxi Rank: Pariser Platz



Supporting organisations

EWEA would like to thank its local partners for their support of GRIDS 2010.



Hermann Albers,
President, German Wind Energy Association (BWE)

“The GRIDS 2010 conference in Berlin will discuss the decisive theme for the future growth of wind energy in a highly relevant location: with more than 25,000 MW of installed wind capacity accounting for over 7% of the electricity generation in Germany, we are fully aware that grid integration including grid extension is the backbone of Europe’s energy future.”



Thorsten Herdan,
Managing Director, VDMA Power Systems

“For the future success of wind energy in Europe it is of utmost importance to push forcefully for speedy grid extension and optimisation. VDMA Power Systems - the German Wind Turbine Manufacturers’ Association - welcomes the decision to hold the GRIDS 2010 conference in Berlin, right in the centre of Europe where many grids interconnect.”



Daniel Dobbeni,
President, European Network of Transmission System Operators for Electricity

“Meeting Europe’s ambitious renewable energy targets and reducing European emissions will happen provided the role of the grids is considered as being part of the solution - as it is already the case for wind generation. The backbone of Europe’s Energy Future is the European transmission system, as it has been the case for the past century. Bringing together these elements of our energy future in GRIDS 2010 is a major step towards a better common understanding of the challenges and issues at stake. ENTSO-E, the European Network of Transmission System Operators, therefore endorses and looks forward to this event with great expectations.”



THANK YOU

EWEA would like to thank the following people who gave their time, energy and valuable expertise to develop the GRIDS 2010 conference programme.

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Our magazines are a key source of information about the international renewable energy market and energy politics, providing insight not only to professional operators, planning institutions and manufacturers, but also to all friends and supporters of renewable energy sources.



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Exhibitor profiles

3E

C11

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Specialists in offshore transmission, energy markets, renewable energy power valuation and smart grid infrastructure, 3E experts provides technical guidance, consulting and grid connection advisory to project developers, policy makers, investors and researchers worldwide.

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BWE is the largest wind energy association worldwide with close than 20,000 members and has its political representation in Berlin. BWE provides information as well as publication and statistics on wind energy for interested public and press.

50HERTZ TRANSMISSION GMBH

B15

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50Hertz Transmission ensures operation, maintenance, planning and demand-based development of the transmission grid. It is responsible for compliant management of the entire electric system in 7 German Federal States. 50Hertz is a part of Elia group and as a European transmission system operator a member of the European Association ENTSO-E.

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Alstom Grid has over 100 years of expertise in grids with sales of approximately €3.5 billion in 2009. It has 20,000 employees and over 90 manufacturing and engineering sites worldwide. At the heart of the development of Smart Grid, Alstom Grid offers products, services and systems across the full energy value chain.

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The European Wind Energy Association (EWEA) is the voice of the wind industry, actively promoting the utilisation of wind power in Europe and worldwide. Over 650 members from nearly 60 countries, including manufacturers, developers, research institutes, associations, electricity providers, finance organizations or consultants, make EWEA the world's largest wind energy network.

ENTSO-E

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ENTSO-E is the European Network of Transmission System Operators for Electricity. It represents 42 TSOs from 34 countries, with important new roles in the Third EU Energy Legislative Package among which network codes and ten-year network development plans and is active already before the package is fully in effect.

FGH E. V. RESEARCH ASSOCIATION

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After the huge success of 2010, with the participation of more than 250 companies and 27,200 visitors from 4 continents, Eolica Expo Mediterranean, the leading international show for wind energy in the Mediterranean countries, will be back in Rome from 14 to 16 September 2010.

FRIENDS OF THE SUPERGRID

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The Friends of the Supergrid (FOSG) is a group of companies and organisations which have a mutual interest in promoting and influencing policy and regulatory framework required to enable large-scale interconnection in Europe.

Exhibitor profiles

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Our Generation Gamma of 2.5 MW turbines – the N80, N90 and N100 – combines the latest research and development with technical know-how, successful production of more than 1,350 multi-megawatt turbines, and a decade of operating experience. Nordex is a leading global manufacturer of wind turbines with 4,240 systems around the world.

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A leading player in the industry of high technology cables and systems for energy and telecommunications, the Prysmian Group is a truly global company with sales in excess of € 3.7 billion in 2009 and a strong position in higher value-added market segments.

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RECHARGE

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Subocean is industry-recognised as a leading player in marine renewables by delivering innovative subsea cable construction, installation and burial solutions, time and time again. A succession of high-profile contract wins has enabled the company to realise its vision and invest substantially in new assets as well as expand into Europe.

REPOWER SYSTEMS AG

B5

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REpower Systems AG, is one of the leading manufacturers of onshore and offshore wind turbines. The international mechanical engineering company develops, produces and markets wind turbines with rated outputs of 2.05 MW to 6.15 MW and rotor diameters of 82 meters to 126 meters for almost any location.

SUNMEDIA VERLAGS GMBH/ ERNEUERBARE ENERGIEN

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ERNEUERBARE ENERGIEN is Germany's independent monthly magazine for all renewable energies. We inform by independent journalism comprehensive about the most important activities in the market of renewable energies and provide our readers as well as our advertising customers a professionally and successfully information- and sales platform.

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TenneT is Europe's first cross-border grid operator. With approximately 20,000 kilometres of Extra High Voltage lines and 35 million end users, we rank among the top five grid operators in Europe. Our focus is to develop a north-west European energy market and to integrate renewable energy. We're taking power further.

WINDFAIR.NET

A18

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windfair.net: Is the Worldwide Leading Portal for the Wind Power Industry

Having celebrated its 10th anniversary in 2009, with more than 100.000 online visitors every month. Windfair.net presents more than 1000 companies related with wind energy with their profiles, products, projects and services, latest industry news and events.

VDMA POWER SYSTEMS

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VDMA Power Systems is the communication and information platform of the German manufacturers of gas and steam turbines, engine power plants (bioenergy and cogeneration plants), hydro power plants, wind energy plants and fuel cells. The key issue is the lobbying for a stable energy political framework.

WINDPOWER MONTHLY

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In these days of information overload, you can trust Windpower Monthly to deliver the key facts. For lucid analysis and incisive comment, there is no better source. That's why Windpower Monthly is the first choice of all the major wind power companies for advertising and subscriptions.

VISSER & SMIT MARINE CONTRACTING B.V.

C9

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VSMC is a Dutch company, part of Royal VolkerWessels. VSMC is one of the leading contracting entities in Europe specialised in the installation of high voltage power cables as part of onshore and offshore grid connections. Our expertise include underground, landfall, HDD's and submarine cable lay and burial activities.

WPD THINK ENERGY GMBH & CO. KG

C5

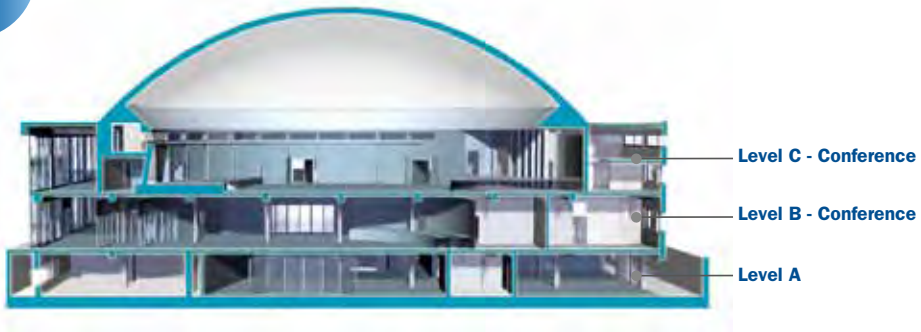
Kurfürstenallee 23a
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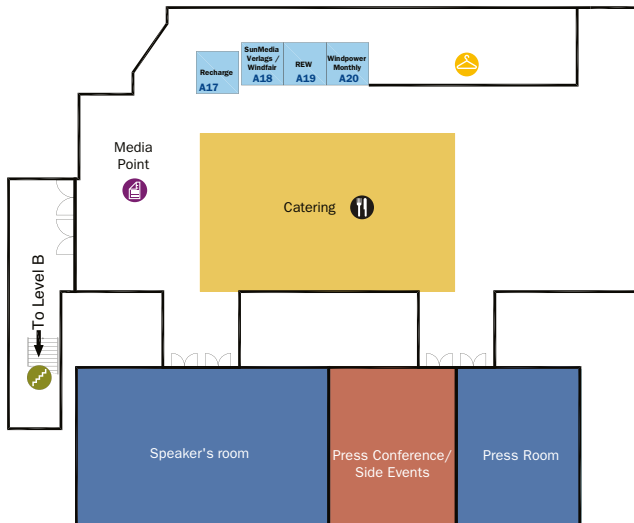
wpd is a developer and operator of renewable energy projects with a focus on wind power. The wpd group owns wind farms with approximately 1,600 wind turbines and an output of 2 GW and is planning further international projects with a pipeline of 7,000 MW onshore and 10,000 MW offshore.

Exhibition floor plan

Overview

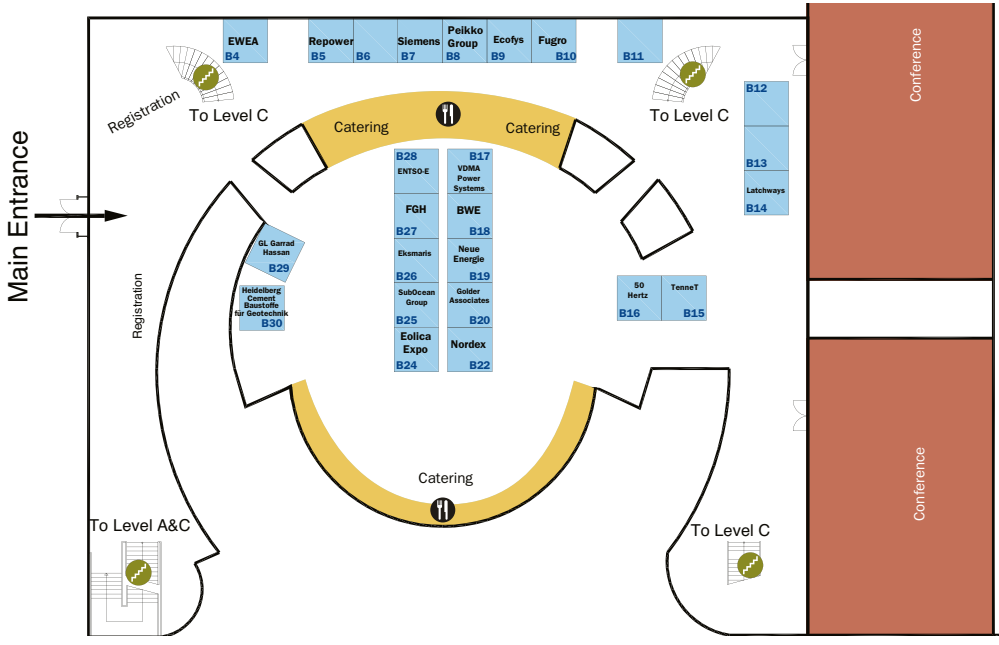


Level A

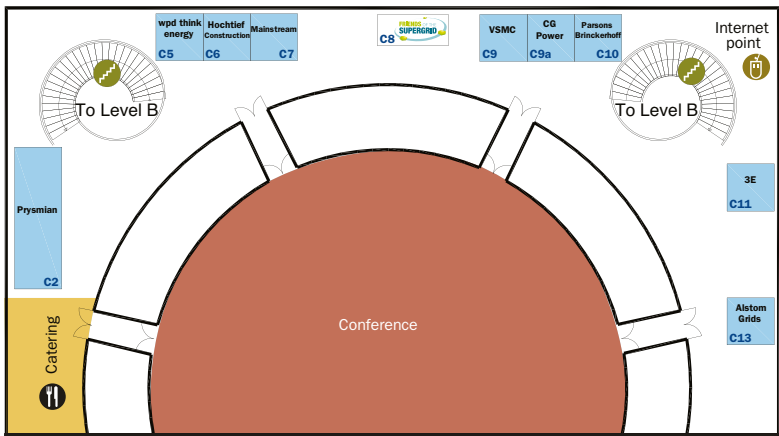


Exhibition floor plan

Level B



Level C



Level C is home to the Friends of the SuperGrid pavilion, featuring the following leading companies:



EXHIBITION

Venue plan

Overview



Coffee Break & Lunch area



Internet point



Cloakroom



Media point

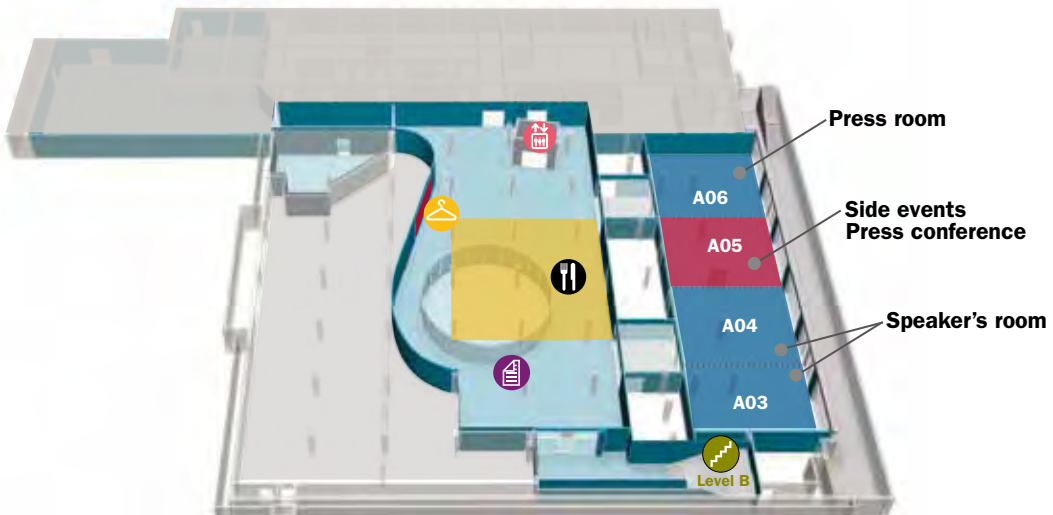


First aid

B06, B09 and C01: Conference rooms

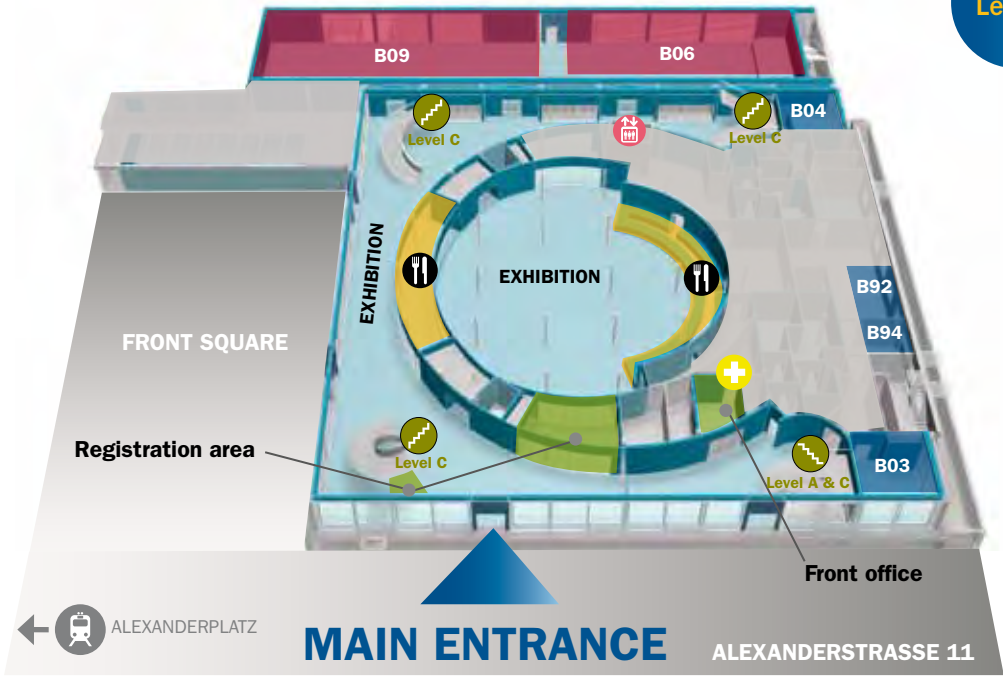
B03, B04, B92, B94 and C04: Meeting rooms

Level A







..... Venue plan


Level B



Level C



Time	Monday 22 November		
19:00 - 21:00	Welcome reception (p.23)		
Time	Tuesday 23 November		
08:00 - 09:00	Welcome coffee		
09:00 - 10:30	Opening session (p.6)		
10:30 - 11:00	Coffee break		
11:00 - 12:30	Room: C01 Panel: A pan-European grid vision for 2020, 2030 and 2050 (p.7)		
12:30 - 14:00	Lunch		
14:00 - 15:30	Room: C01  A new power grid for Europe: who should pay? (p.8)	Room: B09  Transmission technologies: current and future needs (p.8)	
15:30 - 16:00	Coffee break		
16:00 - 17:30	Room: C01 Interconnecting Europe's electricity grids (p.9)	Room: B09  Optimising wind power production: clustering and virtual power plants (p.9)	
17:30 - 18:30	Friends of the Supergrid reception (p.23)		
20.00 - 23.00	Conference dinner		
Time	Wednesday 24 November		
08:00 - 09:00	Welcome coffee		
09:00 - 10:30	Room: C01  Onshore grid planning and policy (p.10)	Room: B09 Smart grids (p.10)	
10:30 - 11:00	Coffee break		
11:00 - 12:30	Room: C01  Planning a North Sea supergrid (p.11)	Room: B09 Power systems of the future (p.11)	Room: B06  Electricity market design (p.12)
12:30 - 14:00	Lunch		
14:00 - 15:30	Room: C01 Grid connection requirements (p.12)	Room: B09  Social acceptance and planning (p.13)	Room: B06 Jobs, education and training [WORKSHOP] (p.13)
15:30	End		

 Interactive sessions have been structured to encourage dialogue between the audience and speakers.