



POWER-GEN[®]
EUROPE

**RENEWABLE
ENERGY
WORLD**
CONFERENCE & EXPO
EUROPE


INTEGRATING THE **POWER SECTOR**

Conference & Exhibition
12 – 14 June 2012
KoelnMesse, Cologne, Germany

CALL FOR PAPERS

SUBMIT AN ABSTRACT FOR
POWER-GEN Europe or Renewable Energy World Europe 2012

ABSTRACT DEADLINE: 7 OCTOBER 2011

 Stake your claim for a prestigious Best Paper Awards

www.powergeneurope.com

www.renewableenergyworld-europe.com

Owned and Produced by:



Presented by:



Supported by:



PennEnergy.

Co-located with:



POWER-GEN EUROPE AND RENEWABLE ENERGY WORLD EUROPE

Integrating The Power Sector

Now in its 20th year, POWER-GEN Europe, co-located with Renewable Energy World Europe offers the largest and most comprehensive conference and exhibition for the European electricity and power technology sector. The combination of conferences and exhibitions across the entire spectrum of power generation is unique and is serving the vital move towards integrating the traditional fossil fuel and fast-growing renewable generation sectors.

Smart thinking

The smart energy system of the future requires a marrying of these sectors to provide the necessary flexibility in low-carbon generation, in order to keep the lights on at all times. POWER-GEN Europe and Renewable Energy World Europe is the place for the cross-pollination of ideas and best practice among the world's leading power industry professionals from each end of the power generation spectrum.

Flexible solutions

Technology development is being geared toward providing flexible solutions that enable integration of variable renewables and conventional power and these solutions are now being brought to market.

Technologies addressing the challenge of integration include:

- Energy storage
- Smart grid technology
- Flexible gas turbines
- Fast-ramping gas and diesel engines
- Hybrid power plant designs
- Accurate forecasting and resource assessment

Collaboration and communication

Europe's utility companies and equipment suppliers need to communicate and collaborate in order to design the integrated power system of the future. The renewable power generation market now recognizes the need for close co-operation and integration with the mainstream as green power becomes big business for the major power generating companies across Europe.



Operation and optimization

Meanwhile, new equipment, services and solutions are being developed and applied to better operate and optimize the existing fleet of power generating plants. Exchanging views and sharing experiences in these areas is vital to the drive for greater operating efficiency.

Seeing the big picture

POWER-GEN Europe and Renewable Energy World Europe are events where power industry professionals can appreciate the big picture and truly engage with the direction the industry is heading.

No other conference and exhibition brings together these now essential partners in the harmonization of Europe's low-carbon energy future.

2011 Statistics at a glance

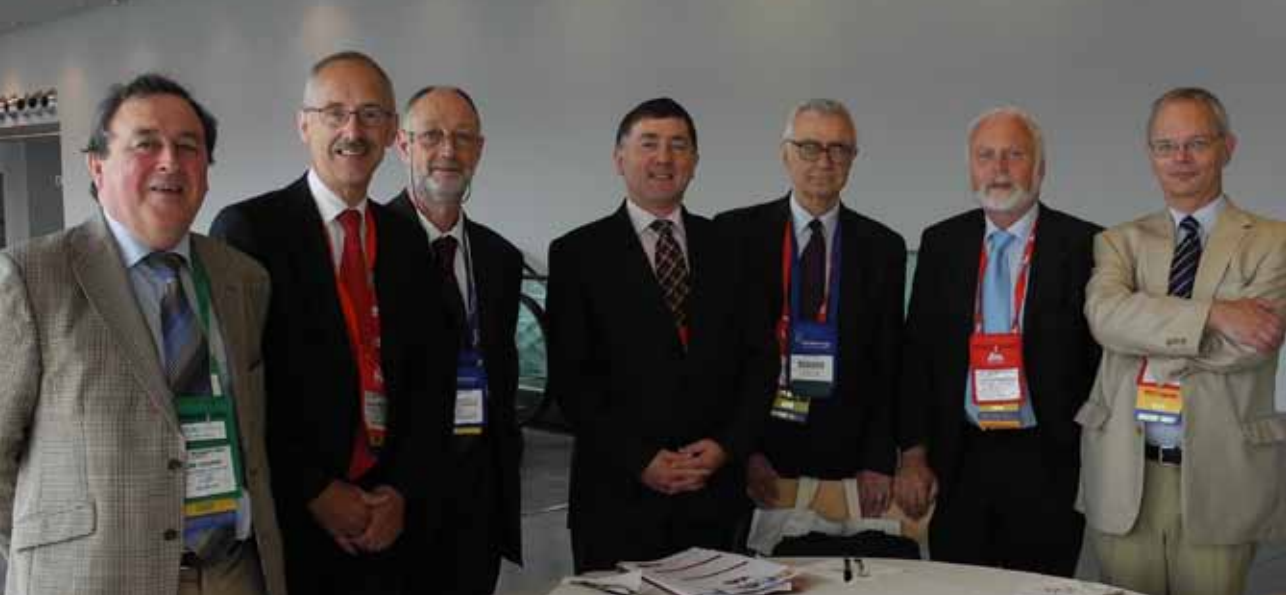
- 14,917 Attendees
- 156 Press
- 89 Countries represented
- 602 Exhibitors
- 1,410 Delegates
- 10 Conference tracks
- 70 Conference sessions
- 250 Speakers
- 600 Keynote attendees
- 400 Plenary attendees

+ 700 plus online attendees to Plenary webcast





POWER-GEN Europe Best Paper Awards judging panel



Submit an Abstract for POWER-GEN Europe or Renewable Energy World Europe

You are invited to share your experiences with your power industry colleagues by submitting an abstract that you would like to present at the next POWER-GEN Europe or Renewable Energy World Europe conferences. Full details of the strategic and technical topics are enclosed.

As a speaker at these prestigious conferences you will gain a heightened professional profile and recognition from colleagues worldwide as you share your knowledge, ideas and industry insights.

As a speaker you will have complimentary access to the entire conference, enjoy networking opportunities with hundreds of top industry professionals and have your paper published in the official online conference proceedings.

Who will be your audience?

Qualified senior management/executive decision makers who have the authority to purchase, or influence the purchase of world-class products and services including:

- Public and municipal utility owners & managers
- Government and regulatory executives
- Independent power producers
- Renewable energy system producers
- Original equipment manufacturers
- Power / heat plant owners & operators
- Plant service sector
- Project developers & managers
- Fuel suppliers
- Design/structural/construction engineers
- Consultants in renewable energy
- Industrial facilities personnel
- Mechanical/electrical/plant engineers
- Strategic and portfolio investors
- Industry consultants and advisers
- Energy traders
- Trade press

Best Paper Awards

Conference speakers will be expected to submit a written paper and will then be eligible for a coveted Best Paper Award. Judges from the expert conference programme Advisory Boards from the co-located events will choose a Best Paper Award winner from each of the conference tracks with the judging criteria based on outstanding concept and content. There will also be two highly commended papers in each category. With well over 500 people expected to submit abstracts for the Cologne conferences, these winners are rightly recognized by the industry as being the 'best of the best'.

Advisory Boards

POWER-GEN Europe and Renewable Energy World Europe's independent expert Advisory Boards are responsible for setting the conference themes and suggested topics, for selecting papers to be included in the programme, and for judging the Best Paper Awards. The Boards represent a wide cross section of the industry, and currently comprise 90 experienced professionals from leading European utility companies, equipment suppliers, manufacturers, service providers, associations and consultancies.

ABSTRACT TOPICS

POWER-GEN Europe

Theme One

Strategies for European Power Sector – Integration Topics

POWER-GEN Europe and Renewable Energy World Europe conferences combine to offer a unique insight into the challenges of integrating increasing renewable and distributed generation into a European power generation portfolio currently dominated by fossil fuel generation. Papers are invited that explore the policy, business and strategic hurdles that need to be overcome as well as those that take a strategic look at the technical challenges.

Politics, Policy & Regulation

- EU and national energy policy integration
- Climate change drivers
- Green economic policies
- Security of supply
- Grid connection rules

Market Strategies and Future challenges

- Utility renewables strategies
- Meeting customer expectations
- The role for baseload as renewable generation expands
- Strategies for securing fuel supplies
- Workforce of the future
- Supply chain issues
- Global supplier competition
- Replacing aging infrastructure
- Meeting growth in power demand
- Fostering research & development

Balancing Supply and Demand

- Implications of integrating intermittent and distributed generation
- Hybrid power plants
- Flexible power generation
- Smart grid
- Interconnections and supergrids
- Ancillary services remuneration
- Energy efficiency initiatives
- Energy storage
- Pumped storage solutions

Strategies for European Power Sector – General Topics

Project and Finance Issues

- Finance availability
- Finance structures
- Carbon finance
- Renewable support mechanisms
- Best infrastructure project practice
- Risk management
- Legal and contractual issues

Germany's power market

- Overview
- Case studies

Theme Two

Reducing the Carbon Footprint

The eventual decarbonization of the electricity sector is now a stated goal and underpins most policy, regulation and technological developments. Theme Two explores policies at regional and national level to achieve emissions reduction and elimination and examines the projects and technologies that are being employed.

- Towards the 20/20/20 goals
- CCS regulation
- Hybrid systems combining conventional and renewable
- Energy efficiency technologies
- Innovative power plant CO₂ reduction concepts
- Energy efficiency implementation
- CCS demonstration and pilot results
- CCS future technologies
- CHP potential and realization
- Integration with industrial processes
- Energy storage technologies

Theme Three

Gas Fired Power Technology

The ever popular 'gas fired track' takes a broader and deeper look at all aspects of gas fired power generation. Papers are invited on all aspects of current and emerging technologies and solutions, with a focus on flexibility and emissions reduction. Abstracts offered by utilities or from joint supplier/customer are particularly encouraged.

Operational Flexibility

- Features
- Solution alternatives
- Operational challenges
- Experiences

Gas Turbine Plant System and Components

- Steam turbines
- HRSG
- Cooling systems
- Air filtration
- Environmental protection systems
- Combustion and fuel flexibility

Power Plant Applications

- Open and combined cycle plants
- Cogeneration/CHP applications
- Repowering
- Gas turbines for IGCC applications

Reciprocating Gas Engine Technology and Applications

- Design developments
- Modifications and upgrades
- Operating experiences
- Power plant technology
- Fuel quality
- Landfill and coal bed methane applications



ABSTRACT TOPICS

POWER-GEN Europe continued

Theme Four

Coal Fired Power Plants, Biomass Combustion, Waste to Energy

As a major fuel source for power generation across Europe, abstracts are invited on the full range of coal and clean coal power production. Ideas for presentations in the areas of large biomass units, co-firing and energy from waste are also invited. Demonstration of new technology advances, experience in operation and evolution of design to mitigate the effect of intermittent renewable generation are of particular interest.

Coal Combustion

- Towards 700°C technologies
- Advance technologies
- Boiler designs
- Once through technologies
- Scale up of CFB units
- High temperature and high pressure materials
- Flue gas cleaning: FGD, DeNO_x (SNCR/SCR), ESP, heavy metal capture
- Fuel and ash handling

Steam Cycle

- Steam power plant development
- HP piping
- Heat exchangers
- Supercritical/USC technologies

Biomass Combustion

- Biomass combustion >25MW
- Biomass/coal co-firing

Waste to Energy

- Industrial, RDF and MSW power projects
- Efficiency and reliability
- Landfill gas for power production
- Coal bed methane in power production
- Public acceptance
- Policy and legal issues

Theme Five

Electrical, Instrumentation & Control

Dedicated to the provision of invaluable practical knowledge for systems engineers, operators, maintenance staff and specifiers of power-plant control and instrumentation systems and other electrical equipment. Potential speakers are invited to share their experience and expertise in the areas below.

Electrical

- Generators and electrical machines
- Transformers
- Switchgears (HV/MV/LV)
- Switchgear and substation automation and protection
- Power quality and control
- Electrical energy storage equipment
- Smart grid technology

Information & Control Systems

- Control Systems and I/O technologies
- Simulation
- Advanced control
- Alarm management
- Emission control and measurement
- Online optimization
- Cyber/IT security
- Instrumentation, valves and actuators
- Wireless technology
- Machine condition monitoring & control
- Safety and protection systems
- Plant monitoring & diagnostics

Theme six

Refurbishment, Operation, Maintenance and Optimization

Europe's power industry professionals predict that the highest level of activity in the sector will be in the area of plant refurbishment and modernization, increasing performance through optimization and enhanced operation and maintenance. The conference Advisory Board particularly invites papers on the topics below.

Refurbishment

- Plant refurbishment
- Life extensions
- Equipment retrofits and upgrades

Operations & Maintenance

- Life cycle management
- Maintenance management
- Emission reduction
- Operation training
- Fuel and bi-product management
- ISO 14001 EMS and sustainability improvements
- Maintenance, diagnostic and monitoring tools

Plant Optimization

- Plant flexibility improvement
- Combustion optimization
- Process improvements
- Operation optimization
- Efficiency improvements

ABSTRACT TOPICS

Renewable Energy World Europe

POWER-GEN Europe and Renewable Energy World Europe conferences combine to offer a unique insight into the challenges of integrating increasing renewable and distributed generation into a European power generation portfolio currently dominated by fossil fuel generation. Papers are invited that explore the policy, business and strategic hurdles that need to be overcome as well as those that take a strategic look at the technical challenges.

Integration Topics

Politics, Policy & Regulation

- EU and national energy policy integration
- Climate change drivers
- Green economic policies
- Security of supply
- Grid connection rules

Market Strategies and Future Challenges

- Utility renewables strategies
- Meeting customer expectations
- The role for baseload as renewable generation expands
- Strategies for securing fuel supplies
- Workforce of the future
- Supply chain issues
- Global supplier competition
- Replacing aging infrastructure
- Meeting growth in power demand
- Fostering research & development

Balancing Supply and Demand

- Implications of integrating intermittent and distributed generation
- Hybrid power plants
- Flexible power generation
- Smart grid
- Interconnections and supergrids
- Ancillary services remuneration
- Energy efficiency initiatives
- Energy storage
- Pumped storage solutions
- Electric mobility
- Grid inertia – system stability & reliability

Technology Topics

- Wind
- CSP
- PV
- CPV
- Solar thermal
- Bioenergies
- Hydro, marine & tidal power
- District heating & cooling
- Geothermal & heat pumps

Strategic Topics

- Distributed small scale renewables
- Finance
- Siting/permitting
- Impacts of economic development
- Repowering
- Policy
- Procurement/contracting
- Smart city & urban renewables
- Manufacturing
- Incentives & support mechanisms
- Improving monitoring & forecasting
- Site & resource assessment

ABSTRACT SUBMITTAL PROCEDURE

All abstracts must be submitted before 7 October 2011

All abstracts must be submitted in English, using the online form found on the POWER-GEN Europe website: www.powergeneurope.com and the Renewable Energy World Europe website: www.renewableenergyworld-europe.com. The main body of your abstract should be between 100 and 300 words.

Overtly commercial abstracts will not be accepted for the conference. Customer and joint customer/supplier papers are particularly welcomed as are those which feature operational projects and empirical data. For full guidelines and requirements, please visit the POWER-GEN Europe website: www.powergeneurope.com or the Renewable Energy World Europe website: www.renewableenergyworld-europe.com.

Please note:

In submitting an abstract you are indicating your availability and willingness to write a full paper, attend and present your paper, if selected, at POWER-GEN Europe or Renewable Energy World Europe 2012, and comply with all deadlines.

Please ensure that the speaker and author details you are providing when submitting your abstract are correct, as these will be used for pre-event marketing purposes. Speakers are responsible for their own travel and accommodation costs.

Step-by-step procedure:

Go to the relevant website www.powergeneurope.com or www.renewableenergyworld-europe.com depending on the focus of your paper

- > Click on the "conference" tab located on the home page
- > Select "Online abstract submittal form" in the left navigation bar
- > Complete ALL the required fields
- > Press submit and your abstract has now been sent.

Please submit your abstract ONLY ONCE and wait for the automatic e-mail that confirms your submission.

Should you need further assistance, please contact:

POWER-GEN Europe

Emily Pryor

Conference Manager

T: +44 (0) 1992 656 614

F: +44 (0)1992 656 700

E: emilyp@pennwell.com

Renewable Energy World Europe

Amy Nash

Conference Manager

T: +44 (0) 1992 656 621

F: +44 (0) 1992 656 700

E: amyn@pennwell.com

NUCLEAR POWER Europe

Abstracts are also invited on a full range of topics in the fields of nuclear power production. These will contribute to the conference content for the co-located event, Nuclear Power Europe. Delegates will be entitled to attend all three conferences.

Should you wish to submit abstracts for this conference, please do so via the following website:
www.nuclearpower-europe.com

ABSTRACT SUBMITTAL DEADLINE: FRIDAY 7 OCTOBER 2011

CONTACTS

For further information please contact:

POWER-GEN Europe

Conference Management

Emily Pryor

T: +44 (0) 1992 656 614

F: +44 (0) 1992 656 700

E: emilyp@pennwell.com

Exhibition and Sponsorship Sales

Gilbert Weir Jnr.

T: +44 (0) 1992 656 617

F: +44 (0) 1992 656 700

E: gilbertw@pennwell.com

Marketing

Crispin Coulson

T: +44 (0) 1992 656 646

F: +44 (0) 1992 656 700

E: crispinc@pennwell.com

www.powergeneurope.com

Renewable Energy World Europe

Conference Management

Amy Nash

T: +44 (0) 1992 656 621

F: +44 (0) 1992 656 700

E: amyn@pennwell.com

Exhibition and Sponsorship Sales

Amanda Kevan

T: +44 (0) 1992 656 645

F: +44 (0) 1992 656 700

E: amandak@pennwell.com

Marketing

Helen Lomas

T: +44 (0) 1992 656 654

F: +44 (0) 1992 656 700

E: helenl@pennwell.com

www.renewableenergyworld-europe.com



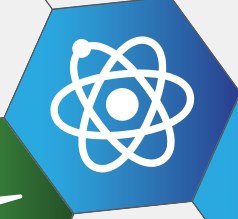
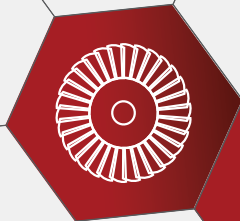
POWER-GEN[®]
EUROPE

**RENEWABLE
ENERGY
WORLD**
CONFERENCE & EXPO
EUROPE

NUCLEAR POWER
EUROPE



INTEGRATING THE **POWER SECTOR**



www.powergeneurope.com

www.renewableenergyworld-europe.com

www.nuclearpower-europe.com