



Power-Gen Europe 2009  
26 - 28 May 2009  
Cologne, Germany

Power and productivity  
for a better world™



# Power and Automation Technology from ABB

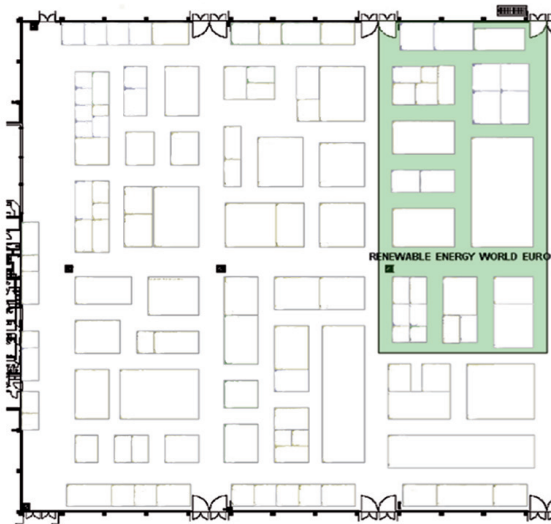
ABB is a leader in power and automation technologies that enable utility and industry customers to improve performance while lowering environmental impact.

The ABB Group of companies operates in around 100 countries and employs about 120 000 people. ABB focuses on two core businesses: Power Technologies and Automation Technologies.

ABB Power Technologies serves electric, gas and water utilities as well as industrial and commercial customers, with a broad range of products, systems and services for power generation, transmission and distribution.

- Power Generation: Power plant control systems, electrical balance of plant, integration of electrical products and automation.
- Power Transmission and Distribution: AC and DC systems, substation and control systems.

ABB Automation Products serves customers with energy efficient and reliable products to improve their productivity, including drives, motors and generators, low voltage products, instrumentation and analytical, and power electronics.



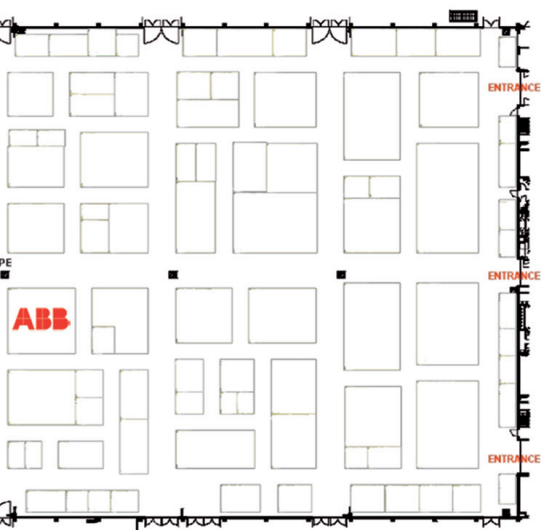
# We look forward to welcome you

The Power-Gen Europe 2009 will take place at Koelnmesse, Cologne, Germany. You will find ABB in hall 8, stand P42.

Exhibition hours:	26.05.09	11:00 h - 18:00 h
	27.05.09	09:00 h - 18:00 h
	28.05.09	09:00 h - 16:00 h

You can register for the conference and exhibition at:

<http://pge09.events.pennnet.com>



# ABB Highlights at Power-Gen Europe 2009

## Renewable Power Generation

### Solar Power Plants

ABB has been a leading force in the solar power industry since the early 1990s in just about every type of photovoltaic (PV) and concentrating solar power (CSP) technology developed. This has given us a unique expertise in how best to capture, control and store solar energy and efficiently convert it into reliable electricity.

### Hydro Power Plants

ABB focuses on the integration and optimization of plant automation and electrical balance of plant for hydro power. Water to Wire - in cooperation with leading manufacturers of turbines, generators and balance of plant, ABB delivers complete electro-mechanical packages for all types and sizes of hydro power plants.

## Electrical Systems

### Gas insulated Switchgear - compact, reliable, economic

Main features of ABB GIS, like extremely low space requirements and high reliability, offer smart and economic solutions for complex switchgear applications, e.g. in densely populated areas, for aesthetic town planning or under severe environmental impact.

### Electrical Balance of Plant (eBoP)

ABB delivers complete systems for the eBoP that use a broad portfolio of products from "high to low voltage" levels. Experience how ABB, through its iICE<sup>SM</sup>, integrated instrumentation, control and electrical systems, can provide modular units for your projects.

### Generators

ABB offers one of the most comprehensive ranges of generators for many applications. Based on advanced technology and extensive experience, these machines are reliable, durable and can be readily customized.

### Drives and Excitation Systems

ABB is a leading supplier of variable speed drives and excitation. Controlling applications such as fans and pumps results in higher output and reduced emissions. Thanks to built-in Power System Stabilizer option UNITROL<sup>®</sup> excitation systems contributes to enhanced grid stability. ABB offers solutions for any type and size of plants.



## System 800xA for Power Generation

ABB's System 800xA provides you with a better way to achieve measurable productivity and profitability improvements. System 800xA is an integral architecture specifically designed to give the power generation industry the best in class DCS solution for the next generation plants. It extends the scope of traditional control systems to include all automation functions in a single operations and engineering environment; enabling your plants to perform smarter and better at substantial cost savings.

## Power Plant Simulation and Optimization

Simulation is increasingly used during the whole life cycle of power plants. A current trend is its exploitation for virtual engineering, besides operator training, prior to building and running a real plant. This helps to maximize the engineering efficiency and to minimize downtimes. Later on model knowledge is utilized to optimize the operation and maintenance of plants in highly competitive markets, and to extend asset lifecycles. Experience the OPTIMAX™ suite and get information about recently implemented projects.

## Integrated Multi-domain Engineering and Documentation with EIP

EIP is the new benchmark for efficient engineering. It enables a consistent and concurrent workflow between multiple engineering domains in automation and electrification of plants. Key features such as complete and consistent data exchange, straightforward integration, automated planning and quality management provide for a new generation of engineering and life cycle support for documents and data repository.

## Instrumentation for the Power Industry

ABB has more expertise in power generation applications globally than any other supplier. Based on this experience, we have refined and developed the performance of our portfolio of intelligent instrumentation products to ensure you get a solution that meets your precise requirements every time.



# ABB at Power-Gen Europe 2009

Tuesday, 26 May  
09:30 h - 11:00 h

**New power plants need new grids  
– a chance of investments in Europe**  
Opening keynote session  
Dr. Joachim Schneider, President of VDE  
and Board Member of ABB AG

## Power-Gen Europe Conference

Tuesday, 26 May  
16:00 h - 17:30 h

**When grids get smart – the way towards  
the power systems of the future**  
Track 1, Session 1b  
Prof. Dr. Jochen Kreusel

Wednesday, 27 May  
09:00 h - 10:30 h

**The extended role of electricity in a carbon-  
constrained environment**  
Track 1, Session 2a  
Gerhard Brandt

Wednesday, 27 May  
09:00 h - 10:30 h

**Revealing the power of integrated  
engineering: The Walsum experience**  
Track 5, Session 2a  
Manuel Greulich

Wednesday, 27 May  
09:00 h - 10:30 h

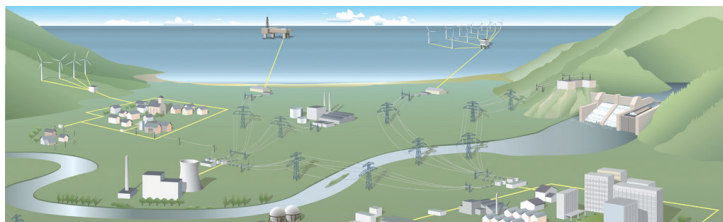
**Best practices of model-based start-up  
optimization of fossil fired power plants**  
Track 6, Session 2a  
Dr. Rüdiger Franke

Wednesday, 27 May  
11:00 h - 12:30 h

**New display and operator support for large  
fossil power plants**  
Track 5, Session 2b  
Dirk Stevens

Wednesday, 27 May  
16:00 h - 17:30 h

**Cross-cutting technologies – the untapped  
potential of energy efficiency and  
climate protection**  
Track 1, Session 3  
Gerhard Brandt



Wednesday, 27 May  
16:00 h - 17:30 h

**Novel approach to integrated control and electrical application for Ansaldo gas turbine**

Track 5, Session 3  
Claudio Lavanna

Thursday, 28 May  
09:00 h - 10:30 h

**Simulation assisted power plant engineering and optimization**

Track 5, Session 4a  
Dr. Alexander Frick

Thursday, 28 May  
11:00 h - 12:30 h

**Thermodynamic monitoring of rotating machines for the optimization of the electrical Balance of Plant (eBoP)**

Track 5, Session 4b  
Dr. Rüdiger Franke

Thursday, 28 May  
11:00 h - 12:30 h

**Plant asset management: A control system integrated feature**

Track 6, Session 4b  
Stefan Lauxtermann

## Power Grid Conference

Wednesday, 27 May  
09:00 h - 12:30 h

**Integration of offshore wind with modern HVDC technology**

Track 1  
Raphael Görner

Wednesday, 27 May  
09:00 h - 12:30 h

**Energy and cost efficient grid connection of rail traction**

Track 1  
Rolf Grünbaum

## Renewable Energy World Europe Conference

Wednesday, 27 May  
16:00 h - 17:30 h

**Connecting offshore wind farms to the grid**

Track A  
Raphael Görner

# Contact us

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