

---

# IEEE PES Conference on Innovative Smart Grid Technologies Europe



October 10-13, 2010  
Chalmers Lindholmen  
Gothenburg, Sweden



**CHALMERS**  
Chalmers EnergiCentrum CEC

# IEEE ISGT Europe 2010

---

## OPENING SESSION

**Lina Bertling**

**General Chair**



**October 10-13, 2010**  
**Chalmers Lindholmen**  
**Gothenburg, Sweden**

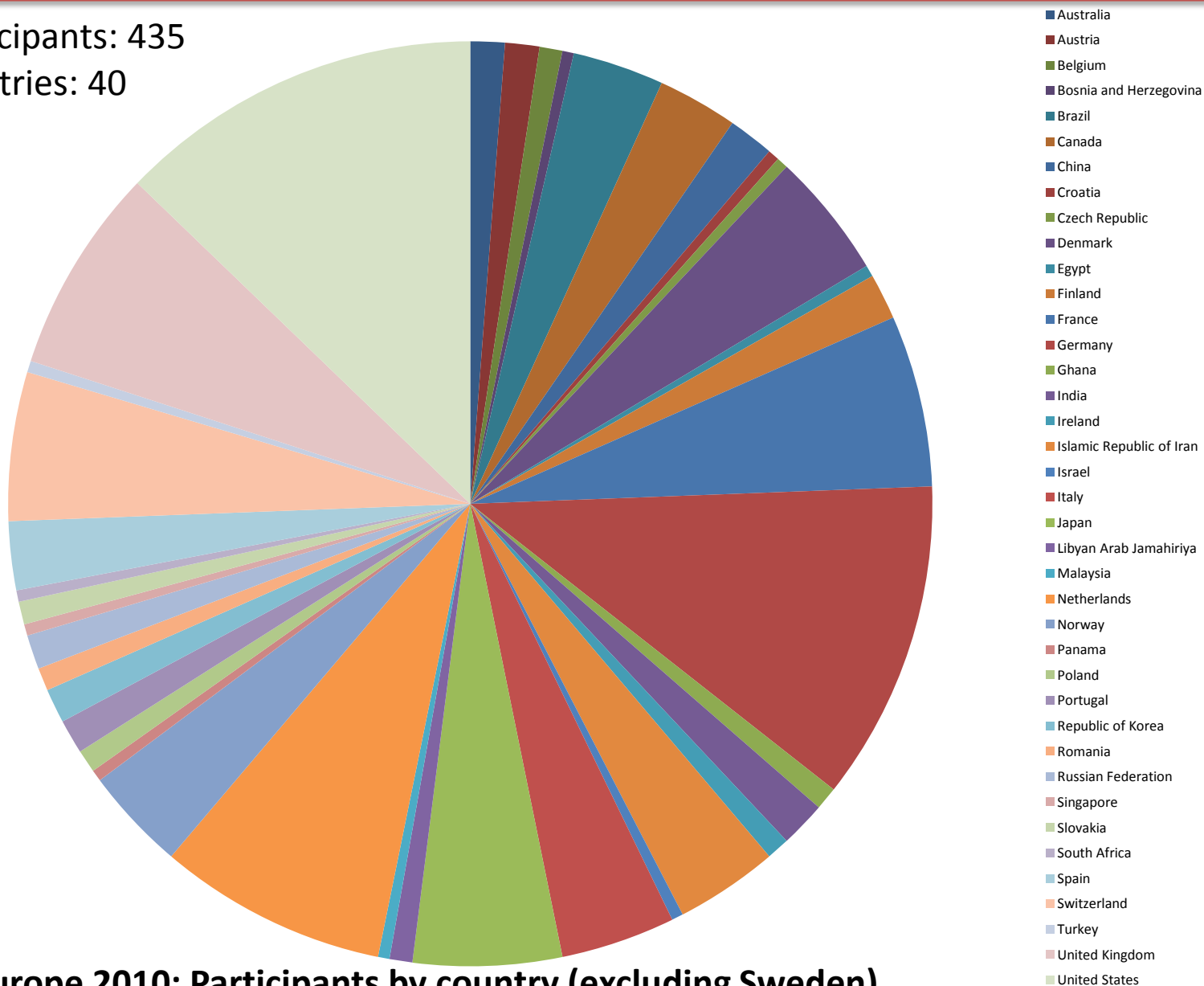


**CHALMERS**  
Chalmers EnergiCentrum CEC

# IEEE ISGT Europe 2010: **Welcome**

No. participants: 435

No. countries: 40



ISGT Europe 2010: Participants by country (excluding Sweden)

# IEEE ISGT Europe 2010: **Welcome**

---

## Technical Program

- Plenary sessions: opening, 4 plenary, closing
- Four parallel paper and panel sessions
  - 20 total including 5 panels
- Four technical tours

# IEEE ISGT Europe 2010: **Welcome**

---

## Technical Program: Paper Topics

1. Standards for smart grid and grid codes
2. Regulatory aspects and market operations
3. Cyber and physical security systems and Information and Communication Technology
4. System and component reliability and diagnostics
5. Intelligent monitoring and outage management - self healing grids
6. AC and DC transmission- and distribution systems – planning, operation and security
7. Protection and phasor measurement unit applications
8. Grid integration of renewable energy sources
9. Use and control of power electronic controllers and energy storage
10. Grid solutions for plug-in vehicles and low-carbon transportations
11. Sensors, communication and advanced metering infrastructure
12. Energy management and efficiency and end user benefits

# IEEE ISGT Europe 2010: **Welcome**

---

## Technical Program: Plenary Sessions

- Plenary Session 1: “Transformation of the Electric Power System to the Smart Grid”

Chair: Lina Bertling, Chalmers, Sweden

- Plenary Session 2: “Regulatory needs for the Smart Grid”

Chair: Math Bollen, Energy Market Inspectorate, Sweden

- Plenary Session 3: “Smart Grid: From Concepts to Reality”

Chair: Wander Reeder, IEEE, USA

- Plenary Session 4: “E-Mobility and the Smart Grid: A Win-Win”

Chair: Kai Strunz, Technical University of Berlin, Germany

# IEEE ISGT Europe 2010: **Welcome**

---

## Technical Program: Panel Sessions

- P1: “Standards for Smart Grid”  
Chair: Lars Nordström, KTH, Sweden
- P2: “Cyber and Physical Security Systems and Information And Communication Technology”  
Chair: Göran Ericsson, Svenska Kraftnät, Sweden
- P3: “Component Insulation and Diagnostics for Smart Grid”  
Chair: Stanislaw Gubanski, Chalmers, Sweden
- P7: “Advanced Metering and Metrology Infrastructure for Smart Grid”  
Chair: Anders Mannikoff, SP, Sweden
- P8: “Power Electronics and Energy Storage in Smart Grid Environment”  
Chair: Jan Svensson, ABB, Sweden

# IEEE ISGT Europe 2010: **Welcome**

---

## Technical Program: Technical Tours

- *Tour 1: The National Metrology*
  - *A demonstration of National Metrology in Sweden with focus on electrical quantities and time (fröken ur)*
  - *SP Technical Research Institute of Sweden, Borås*
- *Tour 2: A Smart Substation*
  - *A demonstration of a computer controlled substation*
  - *Vattenfall, Ulricehamn*
- *Tour 3: Smart Metering in practice*
  - *A demonstration of ZigBee City an advanced metering infrastructure*
  - *Göteborg Energi, Gothenburg*
- *Tour 4: Chalmers Electric Power Engineering Lab- new*

# IEEE ISGT Europe 2010: **Welcome**

---

## Social Program

- Sunday: Informal Reception at Chalmers University of Technology, Campus Johannesberg.
- Monday: Welcome Reception, hosted by the City of Gothenburg. The reception takes place in the City Hall of Gothenburg.
- Tuesday: Reception Gala Dinner hosted by Vattenfall and Chalmers. The dinner takes place at Kajskjul 8.

# IEEE ISGT Europe 2010: **Welcome**

---

## Technical Program: Closing Session

- ***Keynote speaker:***
  - [Mohammad Shahidehpour](#)  
Professor in the  
Department of Electrical  
and Computer Engineering  
Illinois Institute of  
Technology, USA
- ***Closing remarks:***
  - [Alan Rotz](#) President IEEE  
Power & Energy Society



# IEEE ISGT Europe 2010: **Welcome**

---

Thanks to all who supported this event!

- Committees:
  - IEEE PES ISGT Committee
  - IEEE ISGT Local Committee
  - Advisory Committee
- Reviewer Pool
- Authors
- Session Chairs

# IEEE ISGT Europe 2010: **Welcome**

## Sponsors



**CHALMERS**  
Chalmers EnergiCentrum CEC



City of  
Gothenburg



# IEEE ISGT Europe 2010: **Enjoy the Program!**

---



# IEEE ISGT Europe 2010: **Welcome**

---

## Opening Remarks

- [Alan Rotz](#) President IEEE  
Power & Energy Society
- [Karin Markides](#) President  
Chalmers University of  
Technology
- [Niklas Wahlberg](#) CEO,  
Lindholmen Science Park



# IEEE ISGT Europe 2010: **Welcome**

---

## Technical Program: Opening Session

### *Keynote Speaker*

- [Anders Olsson](#) Senior Vice President Business Division Grid, Gas & Heat, E.ON Sverige AB
  - “Networks as the Enabler for the New Energy World”, Anders Olsson, Senior Vice President, Business Division, E.ON Sweden AB

