IEA Wind

IEA Wind Energy Systems
Technology Collaboration Programme

Andreas Gustafsson, IEA ExCo, avdelningen för forskning och innovation på Energimyndigheten
IEA Wind Mission

“…to stimulate co-operation on wind energy research and development and to provide high quality information and analysis to member governments and commercial sector leaders by addressing technology development and deployment and its benefits, markets, and policy instruments.”

– IEA Wind Strategic Plan
Members represent 85% of global capacity

Europe: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, the United Kingdom, the European Commission, and the European Wind Energy Association. North America: Canada, México, and the United States. Asia and Pacific: Chinese Wind Energy Association, Japan, and South Korea.
Strategic Direction 2014-2019

• Reduce the cost of wind energy use, for both land-based and offshore wind
• Increase the flexibility of transmission and power systems
• Increase social acceptance and environmental compatibility of wind energy
• Increase the exchange of best practices
IEA Wind Priority Areas

- Wind Characteristics
- Wind Power Technology
- Wind Integration
- Social, Economic & Environmental Issues
IEA Wind Task and Priority Areas (2009-2019)

1) WIND CHARACTERISTICS
- 2010 Task 31 - WAKEBENCH
- 2011 Task 32 - Lidar for Wind Energy
- 2016 Task 36 - Forecasting Wind Energy

2) WIND POWER TECHNOLOGY
- 1987 Task 11 - Base Technology Information Exchange
- 2001 Task 19 - Wind Energy in Cold Climates
- 2008 Task 27 - Small Wind Turbines in Turbulent Sites
- 2008 Task 29 - Mexnext Aerodynamics
- 2010 Task 30 - Computer Codes and Models for Offshore Wind Energy (OC5)
- 2011 Task 33 - Reliability Data
- 2013 Task 35 - Full-Size Ground Testing

3) WIND INTEGRATION
- 2005 Task 25 - Power Systems with Large Amounts of Wind Power
- 2015 Task 37 - Wind Energy Systems Engineering

4) SOCIAL, EDUCATIONAL and ENVIRONMENTAL ISSUES
- 2008 Task 26 - Cost of Wind Energy
- 2007 Task 28 - Social Acceptance of Wind Energy Projects
- 2013 Task 34 - Environmental (WREN)

5) COMMUNICATIONS
- 2011 Communication Strategy

Completed Term 2009-2014
Current Term 2014-2020
Tack!

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