

TASK 24

WIND ENERGY AND HYDROGEN INTEGRATION

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VITAL STATISTICS

Term

Phase 1: 2006-2010

Phase 2: 2010-2011

Members

11 Participant countries

Expert Participants

21 Experts

2011 Meetings

26th - 27th of May

Grenoble, France

29th - 30th of September

Pamplona, Spain

IEA HIA TASK 24 WIND ENERGY & HYDROGEN INTEGRATION

2007-2011

FINAL REPORT

http://icahia.org/pdfs/Task_24_final_report.pdf

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The International Energy Agency (IEA) Hydrogen Implementing Agreement (HIA) is pleased to announce the release of its Task 24 Final Report: Wind Energy & Hydrogen Integration. The main purpose of Task 24 was to provide an overview of technologies that have direct influence on development and implementation of systems integrating wind energy with hydrogen production. The Final Report concludes that the wind/hydrogen alternative appears to be an attractive storage option for overcoming a major drawback, the intermittent availability of wind energy, which affects both stand-alone and grid-connected applications.

The Final Report was presented for approval at the 68th IEA HIA Executive Committee Meeting March 13-14, 2013 in Paris, France.

- Wind power evolution in European countries and Japan
- The impact of high wind energy penetration on power systems
- Electricity storage systems
- Technologies: wind; electrolysis; system integration; hydrogen compression and storage; hydrogen to electricity conversion options
- Categorization of Wind-Hydrogen systems
- Software simulation tools
- Evaluation of Wind-Hydrogen System Projects
- Lessons Learned and Community Perspectives

