



Managing Intermittent Renewables in Germany

Susanne Velke, *IHS CERA Associate*

June 22, 2012
Paris



Terms of Use

The accompanying materials were prepared by IHS CERA Inc. (IHS CERA) and are not to be redistributed or reused in any manner without prior written consent, with the exception of client internal distribution as described below.

IHS CERA strives to be supportive of client internal distribution of IHS CERA content but requires that

- IHS CERA content and information, including but not limited to graphs, charts, tables, figures, and data, are not to be disseminated outside of a client organization to any third party, including a client's customers, financial institutions, consultants, or the public.
- Content distributed within the client organization must display IHS CERA's legal notices and attributions of authorship.

Some information supplied by IHS CERA may be obtained from sources that IHS CERA believes to be reliable but are in no way warranted by IHS CERA as to accuracy or completeness. Absent a specific agreement to the contrary, IHS CERA has no obligation to update any content or information provided to a client.

Agenda

- The Intermittency Challenge
 - IHS outlook for intermittent renewables in Germany
 - Domestic and cross-border challenges as a result of intermittent generation
- Improving Power System Flexibility
 - Challenges and measures taken to date
 - Grid development as an enabler of power system flexibility
- The Path Ahead
 - Projected curtailment levels of wind and solar generation
 - System development needs to integrate intermittent renewables
- Concluding Remarks: Lessons for Germany and Neighbouring Countries



Contact Details

For questions on the subject of this presentation and to obtain the slides, please contact the presenter directly by email on

susanne.velke@ihs.com



IHS – A Leading Information Provider

We are 6,000 people, in 30 countries, speaking 50 languages – all working each day to:

- Serve businesses and all levels of governments worldwide
 - Ranging from 80% of Global Fortune 500 to small businesses
 - Customers in 180 countries
- Provide comprehensive content, software and expert analysis and forecasts

Helping our customers drive critical processes and make high-impact decisions with speed and confidence



Positioning of IHS CERA

- Deliver comprehensive, integrated research and thought leadership on energy market fundamentals, industry dynamics and strategy
- Offer forward-looking insights into the most pressing challenges - economic, geopolitical, financial, technological, regulatory and environmental
- Provide an independent and objective view
- Help clients anticipate the energy future and make informed, strategic, investment, and market decisions

