



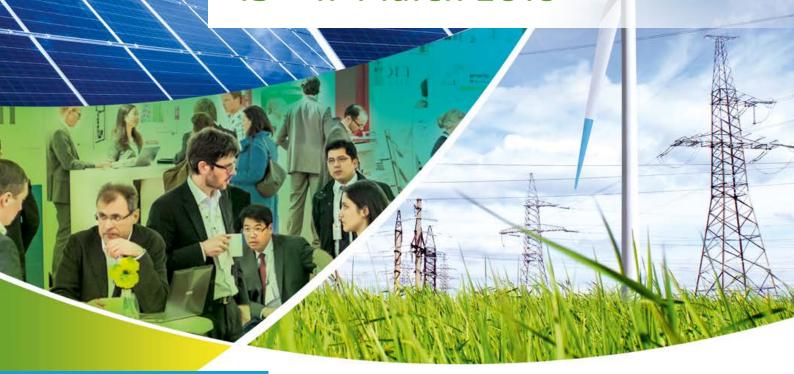
15-17 March 2016

Düsseldorf, Germany www.ESEexpo.com

EXPO AND CONFERENCE

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SHORT OVERVIEW

ESE/IRES CONFERENCE - DAY 1

Tuesday, 15 March 2016						
~	② Time	i Information & Speaker				
	9:00 - 10:00	Arrival of Attendees - Breakfast				
	10:00 - 11:20	Welcome Address & Keynotes "Free Entrance for all Visitors & Delegates"				
	11:20 - 12:00	Coffee break – Visit of the Exhibition				
	12:00 - 13:35	ESE/IRES Session 1 - Regulatory Framework				
	13:35 – 15:00	Lunch break – Visit of the Exhibition				
	15:00 - 16:20	ESE/IRES Session 2 - Research and Science				
	16:20 - 17:00	Coffee break – Visit of the exhibition				
	17:00 - 18:20	ESE/IRES Session 3 - Global Projects				
	18:30	BVES Networking Reception				

For more information, see page 28

ESE/IRES CONFERENCE - DAY 2

Wednesday, 16 March 2016							
~	② Time	i Information & Speaker					
	08:30 - 08:40	Arrival of Attendees – Breakfast					
	08:40	ESE Session 4 - Energy Storage in the Building Sector		Intro Finance Track powered by VDE Institut			
	08:40	IRES A1 Applica- tions, Case Studies and Scenarios	IRES A2 PV Home Storage	IRES A3 Politics / Economics	IRES A4 Batteries		
	10:30 - 11:00	Coffee break – Visit of the Exhibition					
	11:00	ESE Session 5 - Opportunities for SME and Start Ups		Keynotes Finance Track powered by VDE Institut			
	11:00		IRES B2 PV Home Storage	IRES B3 Decentral- ised Storage Solutions	IRES B4 High-Tem- perature TES for Electricity Production		
	12:50 - 14:00	Lunch break – Visit of the Exhibition					
	14:00	ESE Session 6 - Industry/Process					
	14:00	Applications, Case Studies and Scenarios	IRES C2 Flexibility Options	IRES C3 Large Scale Storage	IRES C4 TES in Buildings		
	15:30 – 16:00	Coffee break - Visit of the Exhibition					

		Wednesday, 16 March 2016
~	① Time	i Information & Speaker
	16:00	ESE Session 7 - Energy Storage Systems for the Energy Turnaround in Industrial and Utility Markets
	16:00	IRES Postersession
	18:45 – 19:00	Departure Shuttle Bus to Dinner/Party
	19:00 - 0:00	Dinner/Party

For more information, see page 29

ESE/IRES CONFERENCE - DAY 3

Thursday, 17 March 2016							
~	② Time	i Information & Speaker					
	08:30 - 08:40	Arrival of Attendees – Breakfast					
	08:40	ESE Session 8 - TSO/DSO/Smart Grids					
	08:40	Applications, Case Studies and Scenarios	TES D2 TES for Efficiency Increase in Industry	Power-to- Gas / Power to Liquids	IRES 04 Netze und Speicher		
	10:30 - 11:00	Coffee break – Visit of the Exhibition					
	11:00	ESE Session 9 - Intersectoral storage					
	11:00	IRES Postersession			IRES 04 Stadtwerke und Speicher		
	12:50 - 14:00	Lunch break – Visit of the Exhibition					
	14:00	ESE Session 10 - Intersectoral storage					
	14:00	Applications, Case Studies and Scenarios	IRES E2 Large Scale Storage	Power-to- Gas / Power to Liquids	IRES E4 Speicher für die Energie-wende		
	15:30	Celebratory Closing					
	15:30 – 16:00	Coffee break – Visit of the Exhibition					
	16:00	Summary "Free Entrance for all Visitors & Delegates"					
	16:45	Closing of the Conference					

For more information, see page 34



Düsseldorf, Germany www.ESEexpo.com

SIDEFVENT

OTTI - POWER-TO-GAS - 16TH MARCH 2016

Mittwoch, 16. März 2016, 8.50 - 17.00 Uhr

Opening address

Bernd Porzelius, OTTI e.V., Regensburg, Germany

Objective of the conference 2

Prof. Dr.-Ing. Michael Sterner, Technical University OAS, Regensburg, Germany

3 Why Power-to-Gas will make the energy system more economic - results of the

Prof. Dr.-Ing. Michael Sterner, Technical University OAS, Regensburg, Germany

State-of-the-art of Power-to-Gas in France

Marc Jedliczka, HESPUL énergies renouvelables & efficacité énergétique, Lyon,

5 European framework for Power-to-Gas and Power-to-Fuel Katarzyna Drabicka, European Comission, Brussels, Belgium

Necessary framework conditions for a business case in Germany 6 Werner Diwald, Deutscher Wasserstoff- und Brennstoffzellen Verband / performing energy, Berlin, Germany

7 First experience with advanced power to gas concept based on PEM technology - comparison with alkaline electrolysis

Dr. Andrei Zschocke, Uniper Energy Storage GmbH, Essen, Germany

8 Power-to-X progress and developments at Hydrogenics Dr. Bernd Pitschak, Hydrogenics, Gladbeck, Germany

Potential role of electrolytic hydrogen in reducing carbon monoxide emissions in CCGT plants

Philipp Andres, Next Hydrogen, Mississauga, Canada

Efficiency record at the Power-to-Gas pilot in Ibbenbüren Carsten Stabenau, Westnetz GmbH, Dortmund, Germany

11 Power-to-Gas plants in Switzerland - operational experiences Dr. Elimar Frank, HSR Technical University of Applied Sciences Rapperswil,

1 MW methanisation project BioCat in Denmark 12

Dr. Doris Hafenbradl, Electrochaea GmbH, Planegg, Germany

Underground Sun Storage using depleted gas reservoirs for Power-to-Hydrogen 13 and Power-to-Methane

Stephan Bauer, RAG Rohöl-Aufsuchungs Aktiengesellschaft, Wien, Austria

14 Questions and nanel discussion

Power-to Hydrogen / Power-to-Methane and Power-to-Methanol – where are the next niches?

15 Mathematical optimization of PtG plants

Dr. David Wenger, CEO Wenger Engineering GmbH, Ulm, Germany

Methanol as e-Fuel from carbon dioxide - an application of Powerto-X Dr. Arthur Heberle, Mitsubishi Hitachi Power Systems Europe GmbH, Duisburg, Germany

Power-to-Gas and Power-to-X for Europe's Energy Transition

As official side event of Energy Storage Europe and the 10th IRES conference the 5th OTTI Conference Power-to-Gas will take place at CCD Süd, Düsseldorf, Germany on March 16th, 2016.

The focus of the conference will be on projects for the European energy industry. Besides market development topics like Power-to-Gas and Power-to-X implementation in industrial MW-scale will be discussed. Meet international specialists, leading scientists and business experts of well-known companies like E.ON, RWE, Hydrogenics, Next Hydrogen, RAG, Electrochaea and gain comprehensive information about the state of technology as well as the latest results from research and development.

Contact

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Program download: http://www.otti.de/pdf/Power-to-Gas_ptg5068.pdf







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