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PROGRAM 2014

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ENERGY STORAGE 2014 - PROGRAM OVERVIEW

TUE, 25 MARCH 14



09:00
Energy Storage
Day 1

19:00
Networking-
Reception
presented by
BVES



**NETWORKING IN
DUESSELDORF**

The Energy Storage Networking Dinner and Party has quickly become the industry's "must-attend event". The dinner and the subsequent party with live music is considered one of the highlights at the Energy Storage.



WED, 26 MARCH 14

09:00
Energy Storage
Day 2

19:00
Networking-
Dinner-Party
@ Schlösser
Quartier
Boheme
Party at
21:00h

09:00 - 18:00
VDE
Financial
Dialogue
Europe 2014

**VDE
INSTITUT**

Official partner event of the Energy Storage, with a key focus on bankability for energy storage systems from the perspective of renewable energies. The Financial Dialogue builds upon the success of the past VDE-organized Global PV Financial Summit events in Shanghai and Singapore. This top event brings together key stakeholders from the finance, investment and insurance sectors, renewable energy and energy storage industries.

BASIS FOR BUSINESS

With 530 participants from 33 countries and 45 top-class exhibitors, the second annual Energy Storage 2013 was a great success and demonstrated the importance of storage solutions for the transformation of our electric power system.

At "Energy Storage 2014", we will focus on applications and deal-making. Another focus will be energy storage solutions in relation to the development of the energy industry in Europe. With over 800 expected participants the political frameworks will be discussed including the cost effectiveness of energy storage as well as innovative new financing mechanisms.

Which applications of energy storage are most needed for the transformation of Europe's electric power system? What are the benefits and costs for different energy storage solutions and how can they be practically implemented? What kind of political support is necessary? These questions will be discussed and answered in Düsseldorf, 25 to 27 March 2014.

Three side events are part of the Energy Storage 2014:

- The VDE Financial Dialogue on March 26th
- The 3rd Conference Power to Gas on March 27th and
- The 4th StoraDay on March 27th

BE PART OF IT - SYNCHRONIZE ENERGY STORAGE BUSINESS!

THU, 27 MARCH 14

09:00
Energy Storage
Day 3

17:00
BVES
Annual
Members
Meeting

10:00 - 21:00 4th StorageDay

09:00 - 18:00
3rd
Conference
Power to Gas

OTTI

Official side event and part of the Energy Storage. Focus on projects for the European Energy Industry. Topics include: market development conditions and P2G implementation.

Meet international specialists, leading scientists and business experts - gain comprehensive information as well as the latest results from R&D.

SESSION CHAIRS / MODERATORS / KEYNOTES



GARRELT DUIN
Minister of Economic Affairs, Energy and Industry of the State of North Rhine-Westphalia



PROF. DR. EICKE R. WEBER
Conference Chairman, Director Fraunhofer ISE, Chairman Fraunhofer Energy Alliance and President of the German Energy Storage Association (BVES)



DR. FRANK-MICHAEL BAUMANN
Managing Director, EnergyAgency.NRW



SVEN BECKER
CEO Trianel GmbH



STEPHEN BERBERICH
President and CEO, California Independent System Operator Corporation



NICOLA COSCIANI
CEO Fiamm Energy Storage Solutions



JOHANN-FRIEDRICH DEMPWOLFF
President EUROBAT and General Manager, Vice President Industry and Governmental Relations, Johnson Controls Power Solutions EMEA



HEINRICH GÄRTNER
CTO, Founder GP-Joule and Member of the Board of Directors German Energy Storage Association (BVES)



GUNNAR GROEBLER
Vice President/ Vorsitzender der Geschäftsführung, Vattenfall - BU Renewables, Vattenfall Europe Generation AG



DR. ANDREAS GUTSCH
Project Coordination Competence E, Karlsruhe Institute of Technology (KIT)



DR. ANDREAS HAUER
Head of Division "Energy Storage", Bavarian Center for Applied Energy Research (ZAE Bayern)



DR. CHRISTOPHER HEBLING
Division Director Energy Technology, Fraunhofer Institute for Solar Energy Systems ISE



KLAUS HELLER
Corporate Planning and Product Strategy, BMW Group



DAVID HOCHSCHILD
CEC Commissioner, The California Energy Commission



IDIER HOUSSIN
Director of Sustainable Energy Policy and Technology, International Energy Agency (IEA)



HEIKO KRETSCHMER
Managing Director, Johanssen + Kretschmer Strategische Kommunikation GmbH



JANICE LIN
Managing Partner, Strategen Consulting LLC, California/USA Co-Founder and Executive Director California Energy Storage Alliance



HILDEGARD MÜLLER
Chairwoman of the General Executive Management Board, bdew, German Association of Energy and Water Industries



CARLA PETERMAN
Commissioner, California Public Utilities Commission



MICHAEL PICKER
Senior Advisor (to the Governor Jerry Brown) for Renewable Energy Facilities



DR. K. PETER RÖTTGEN
Head of E.ON Innovation Center Energy Storage



PROF. DR. DIRK UWE SAUER
Professor for "Electrochemical Energy Storage Systems", RWTH Aachen University



BORIS SCHUCHT
CEO 50Hertz



THOMAS SPEIDEL
CEO ads-tec GmbH and Member of the Board of Directors of KLIB, StoREgio and Solarcluster Baden-Württemberg



ROBERT STASKO
Executive Director, Ontario Energy Storage Alliance



PROF. DR.-ING. MICHAEL STERNER
Professor for Energy Storage at the Technical University OAS Regensburg



CLEMENS TRIEBEL
Founder and CTO Younicos AG



DR. JENS TÜBKE
Division Director Applied Electrochemistry, Fraunhofer ICT and Chairman Fraunhofer Battery Alliance



DR. RAHUL WALAWALKAR
Vice President, Emerging Technologies & Markets, Customized Energy Solutions & Executive Director, IESA & Secretary, Electricity Storage Association



ROBERT B. WEISENMILLER
CEC Chairman, The California Energy Commission



FRANK WOUTERS
Deputy Director-General, International Renewable Energy Agency (IRENA)



TINA JING ZHANG
Managing Director China Energy Storage Alliance (CNESA)

**ENERGY STORAGE DAY 1: TUESDAY 25 MARCH 2014**

8:00 AM	Global Energy Storage Alliance Executive Breakfast (invitation only event)
8:00 AM	Registration - Networking Breakfast - Visit of Exhibition
9:00 AM	Opening Session Welcome Remarks HANS WERNER REINHARD Dep. Managing Director, Messe Düsseldorf
9:05 AM	Introduction PROF. DR. EICKE R. WEBER Conference Chairman, Director Fraunhofer ISE, Chairman Fraunhofer Energy Alliance and President of the German Energy Storage Association (BVES): Storage Needs in the Energy Transition Towards Sustainability
9:25 AM	Opening Keynote UWE BECKMEYER Parlamentarischer Staatssekretär / Parliamentary State Secretary, Federal Ministry for Economic Affairs and Energy
9:45 AM	Keynote FRANK WOUTERS Deputy Director-General of the International Renewable Energy Agency (IRENA): Transformation of the global energy system, key trends
10:05 AM	Keynote HILDEGARD MÜLLER Chairwoman of the General Executive Management Board, bdeu, German Association of Energy and Water Industries: Energy Storage - an Important Instrument for the successful implementation of the "Energiewende"
10:25 AM	Keynote DIDIER HOUSSIN Director of Sustainable Energy Policy and Technology, International Energy Agency (IEA): The IEA Energy Storage Roadmap
10:45 AM	Keynote-Panel: The State of Energy Transformation in CA, Building a Carbon-Free Future Moderation PROF. DR. EICKE R. WEBER Conference Chairman, Director Fraunhofer ISE, Chairman Fraunhofer Energy Alliance and President of the German Energy Storage Association (BVES) STEPHEN BERBERICH CEO California Independent System Operator (Cal-ISO) DAVID HOCHSCHILD CEC Commissioner, The California Energy Commission CARLA PETERMAN CPUC Commissioner, The California Public Utilities Commission MICHAEL PICKER Senior Advisor (to the Governor Jerry Brown) for Renewable Energy Facilities ROBERT WEISENMILLER CEC Chairman, The California Energy Commission
11:30 AM	Questions and Discussion
11:45 AM	Networking Coffee Break - Visit of Exhibition
12:15 PM	Panel Discussion "A new Design for the German Energy Market" Moderation HEIKO KRETSCHMER Managing Director, Johanssen + Kretschmer Strategische Kommunikation GmbH SVEN BECKER CEO Trianel GmbH CEO of a major Utility Company DR. HERMANN FALK Managing Director, German Renewable Energy Federation (BEE) REPRESENTATIVE of the Federal Ministry for Economic Affairs and Energy BORIS SCHUCHT CEO 50Hz PROF. DR. EICKE R. WEBER President, German Energy Storage Association (BVES)
13:45 PM	Lunch Break - Visit of Exhibition
14:00 PM	Storage in Action Presentations @ Speakers Corner
15:00 PM	Markets - Concrete Business Cases/Projects Intro Session Chair NICOLA COSCIANI , CEO Fiamm Energy Storage Solutions: The Market for Storage in Italy

15:15 PM	Keynote JOHANN-FRIEDRICH DEMPWOLFF President EUROBAT and General Manager, Vice President Industry and Governmental Relations, Johnson Controls Power Solutions EMEA: European Battery Market Outlook and Storage Trends
15:35 PM	JANICE LIN Managing Partner, Strategen Consulting LLC, Co-Founder and Executive Director California Energy Storage Alliance, USA: Why Energy Storage is Cost Effective and being Procured in California
15:55 PM	ARNE HAUNER E.ON Innovation Center Energy Storage: Energy Storage Economics - Applications, Technology, Value
16:10 PM	DR. RAINER VOR DEM ESCHÉ Managing Director Stornetic: Meeting the Demands of Pay for Performance in the US with Flywheel Based Solutions
16:25 PM	GUNNAR GROEBLER Vice President/Vorsitzender der Geschäftsführung, Vattenfall - BU Renewables, Vattenfall Europe Generation AG: Energy Storage to facilitate further Renewable Integration - The Vattenfall Case
16:40 PM	Questions and Discussion
17:00 PM	Networking Coffee Break - Visit of Exhibition
17:30 PM	Panel Discussion: "General Framework and Conditions for Energy Storage in Germany" Moderation PROF. DR. MICHAEL STERNER Professor for Energy Storage at the Technical University OAS Regensburg Introductory Speech: "Energy Storage in Germany: Demand - Technologies - Policy Framework - Results from recent Studies" HEINRICH GÄRTNER CTO, Founder GP-Joule and Member of the Board of Directors German Energy Storage Association (BVES) DR. HEIKO HUTHER Head of the R&D Department, German Heat and Power Association - Arbeitsgemeinschaft Fernwärme (AGFW) DR. K. PETER RÖTTGEN Head of E.ON Innovation Center Energy Storage, Vice President European Association for Storage of Energy (EASE) PROF. DR. DIRK UWE SAUER Professor for "Electrochemical Energy Storage Systems", RWTH Aachen University CLEMENS TRIEBEL CTO and Founder, Younicos AG CHRISTINA WITTEK Ministerialrätin / Head of Division, Referat IIIB5 - Energiespeicher, Federal Ministry for Economic Affairs and Energy
19:00 PM	BVES-Networking-Reception - All Conference Delegates and Exhibition Visitors are cordially invited

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CONFERENCE LANGUAGE
ENGLISHSIMULTANEOUS TRANSLATION
GERMANSIMULTANEOUS TRANSLATION
CHINESE (25+26 MARCH)



ENERGY STORAGE DAY 2: WEDNESDAY 26 MARCH 2014

8:30 AM	Registration - Networking Breakfast - Visit of Exhibition
9:00 AM	Batteries - Residential and Mobile Solutions
	Intro Session Chair DR. JENS TÜBKE Division Director Applied Electrochemistry, Fraunhofer ICT and Chairman Fraunhofer Battery Alliance: Battery Storage Technologies – Overview and Outlook
9:10 AM	DR. MATTHIAS VETTER Head of Department, Fraunhofer ISE: Examining the added value of operating Control Strategies for Stationary PV Battery Applications
9:30 AM	DR. ALEXANDER HIRNET Technical Director, VARTA Storage GmbH: Success factors for a sustainable Residential Energy Storage System
9:50 AM	KLAUS HELLER Corporate Planning and Product Strategy, BMW Group: The BMW iDrive Concept
10:10 AM	TOBIAS ROTHACHER , Senior Manager Renewable Energies & Resources, Germany Trade and Invest GmbH: Residential Energy Storage in Germany: Market Status & Outlook
10:30 AM	Questions and Discussion
10:50 AM	Networking Coffee Break - Visit of Exhibition
11:20 AM	Batteries - Industrial and Utility Markets
	Intro Session Chair THOMAS SPEIDEL CEO, ads-tec GmbH The role of Batteries for a sustainable Energy Supply in Industrial and Utility Markets
11:30 AM	DR. ILJA PAWEŁ Technical Sales Manager, Cellstrom GmbH / GILDEMEISTER energy solutions: How expensive is Energy Storage? A Framework Model to compare different Technologies including Vanadium Redox-Flow
11:50 AM	DR. JEON KEUN OH Senior Manager Strategy Planner, SK Innovation Korea, KOREA: Lithium Batteries for ESS Applications
12:10 PM	ANDREAS DOSS Project Manager Research & Development, HEAG Südhesische Energie AG (HSE): SolVer – Trading Platform for the optimization of Storages in Regional Distribution Networks
12:30 PM	ALESSANDRO SCHILLACI Sales Representative, Dedicated Sales Renewable Energy, Siemens AG: Improved efficiency with local DC-Grids
12:50 PM	Questions and Discussion
13:10 PM	Lunch Break - Visit of Exhibition
13:30 PM	Storage in Action Presentations @ Speakers Corner
14:40 PM	Markets and Demand for Micro Grid and Hybrid Solutions
	Intro Session Chair DR. ANDREAS GUTSCH Project Coordination Competence E, Karlsruhe Institute of Technology (KIT): Profitability of Stationary PV-Battery Systems
14:50 PM	DR. RAHUL WALAWALKAR Vice President, Emerging Technologies & Markets, Customized Energy Solutions & Executive Director, India Energy Storage Alliance (IESA) & Secretary, Electricity Storage Association (ESA): Microgrid Applications in India: Rural Electrification to Smarter Townships
15:10 PM	XAVIER VALLVÉ Associate Director of Trama Tecnó Ambiental, Board Member of the Alliance for Rural Electrification (ARE) and Leader of the ARE Energy Storage Task Force: Functionalities and Operating Conditions of Batteries in off-grid PV Rural Electrification in Emerging Markets
15:30 PM	HANSON SINDOWE Executive Chairman, Copperbelt Energy Corporation, ZAMBIA: Mixed Generation and more Renewables in fast Emerging Countries
15:50 PM	Questions and Discussion
16:10 PM	Networking Coffee Break - Visit of Exhibition
16:40 PM	Power to Gas - Hydrogen - Fuel Cells
	Intro Session Chair PROF. DR. MICHAEL STERNER Professor for Energy Storage at the Technical University OAS Regensburg Power-to-Gas - The development so far
16:50 PM	LUKAS GROND Specialist Sustainable & Smart Energy at DNV KEMA Energy & Sustainability, Groningen, NETHERLANDS: Power-to-Gas Markets in the Energy Sector - The North Sea P2G Platform

17:10 PM	GUILAUME CHAZALET Business Development and Sales Engineer, AREVA Energy Storage and CSABA MARTON Director Marketing for Central Europe and Nordic Countries, AREVA GmbH: Power-To-Gas: Myths and Reality – Lessons Learned from Hydrogen Demonstrations
17:30 PM	REINHARD OTTEN , Strategy and Communication e-fuels, AUDI AG: Power-to-Gas-to-Mobility – Experiences of the Audi e-gas Project
17:50 PM	DR. CHRISTOPHER HEBLING Division Director Energy Technology, Fraunhofer Institute for Solar Energy Systems ISE: Challenges of Fuel Cell Systems for Mobile, Stationary and Portable Applications
18:10 PM	Questions and Discussion
18:30 PM	Shuttle Bus Transfer to Dinner & Party
19:00 PM open End	Energy Storage Networking Dinner and Party @ Schlösser Quartier Bohème, Ratinger Straße 25, 40213 Düsseldorf

KEY REASONS TO ATTEND IN THE ENERGY STORAGE 2014



Get **INSIGHTS** into all relevant areas of energy storage: energy market design and policy frameworks; global market outlook and trends; technology updates; energy storage applications & business cases including grid integration and financial aspects; global energy storage solutions and best practices as well as off-grid, rural electrification and hybrid solutions.



NETWORKING and **DEAL MAKING** – the Energy Storage provides the perfect platform to network during the conference, the accompanying trade fair and the exclusive networking dinner. Use our private Deal-Rooms and Meeting Zones to foster your business growth!



LEARN from the key stakeholders how your company can gain competitive advantage from recent industry and market developments in Europe and globally.



MEET top decision makers from the energy storage and renewable energy industries, policy makers and other key stakeholders including leading research institutions.



DISCUSS the important issues related to the advancement of energy storage in Europe and globally.

*The **admission** for the VDE Financial Dialogue is **included** in the 3-Day-Conference Ticket of the **Energy Storage!**
1-Day-Tickets are also available under WWW.ENERGY-STORAGE-ONLINE.COM/2130



26 March 2014
CCD Süd, Messe Düsseldorf
Düsseldorf, Germany

VDE FINANCIAL DIALOGUE EUROPE (INCLUDED*)

WEDNESDAY 26 MARCH 2014

9:00 AM	Opening Ceremony WILFRIED JÄGER Managing Director, Chairman of the Management Board, VDE Testing & Certification Institute, Germany
9:20 AM	Keynote 1 JANICE LIN Managing Partner Strategen Consulting LLC, Co-Founder & Executive Director California Energy Storage Alliance, USA An overview of the main technologies and application segments for energy storage systems – what will drive the market? Behind-the-meter interconnected, distribution interconnected, transmission interconnected
9:40 AM	Panel 1 Economics of energy storage systems – where are the returns? <ul style="list-style-type: none"> • What are the current pricing structures for the main energy storage application segments? • Do these pricing structures make economic sense? At what price levels will widespread deployment become attractive? • What role will subsidies play in the development of the market? • Which types of subsidies will be most effective to support energy storage deployment in the early stages? JANICE LIN Managing Partner Strategen Consulting LLC, Co-Founder & Executive Director California Energy Storage Alliance, USA DANIEL ETSCHMANN Senior Technical Expert Solar Energy, KfW Entwicklungsbank, Germany LARS HOLSTENKAMP Research Fellow – Coordination, Leuphana University of Lüneburg, Innovations-Inkubator, TM 1.1/KT ENERgION, Germany VOLKER WACHENFELD Senior Vice President, Hybrid Energy Solutions – Storage Integration, SMA AG, Germany TBC Major utility company
10:50 AM	Networking Coffee break - Visit of Exhibition
11:20 AM	Keynote 2 LOGAN GOLDIE-SCOT Associate, Energy Smart Technologies, Bloomberg New Energy Finance, UK Overview of energy storage markets and trends – where is the growth? Global market size, distribution and outlook
11:40 AM	Case study FRANZ-JOSEF FEILMEIER Senior Consultant, BYD, China Commercial-size renewable energy power plant incorporating energy storage Challenges and success factors, including market-specific elements
12:00 AM	Panel 2 Capitalizing on the energy storage market for renewable energies and grid infrastructure <ul style="list-style-type: none"> • Which energy storage technologies hold majority market share for renewable energy applications? What do the growth prospects look like? • What are the key geographic markets for energy storage applications? What about expected emerging markets? • What are the notable energy storage market trends and opportunities to look out for? LOGAN GOLDIE-SCOT Associate, Energy Smart Technologies, Bloomberg New Energy Finance, UK FRANZ-JOSEF FEILMEIER Senior Consultant, BYD, China DR. ARMIN SCHMIEGEL Project Leader, Innovation, Bosch Power Tec GmbH, Germany INGO ERNST Sales Director Solar Central Europe, Schneider Electric GmbH, Germany CLAAS HEISE Executive Director, Head of Venture Capital, NRW.BANK, Germany
13:10 PM	Lunch break - Visit of Exhibition

14:40 PM	Keynote 3 RUBEN BACH Partner, svs Capital Partners GmbH, Germany Energy storage from the financier's perspective – what funding is available? How lenders assess the financial viability of energy storage applications, and how they are supporting the financing needs of such applications
15:00 PM	Panel 3 Business and financial models to support the growth of energy storage systems <ul style="list-style-type: none"> • Which renewable energy + energy storage applications are currently attractive from a business model perspective? • What innovative business models in the different application segments can we expect to see being developed in the energy storage market? • What are the financing needs being faced by energy storage projects? DEAN FRANKEL Research Associate, Lux Research Inc., USA RUBEN BACH Partner, svs Capital Partners GmbH, Germany MICHAEL SALOMON Managing Director, Clean Horizon, France PHILIPP KUNZE Managing Director, Oneshore Energy GmbH, Germany ADRIAN PINDER Strategic Marketing Leader, GE Energy Storage, UK
16:10 PM	Networking Coffee break - Visit of Exhibition
16:40 PM	Keynote 4 FELIX HOLZ Vice President, Expertenteam Greentech, Deutsche Bank AG, Germany Hurdles to bankability for energy storage – what issues need to be overcome? Main gaps to achieving bankability that are being faced by energy storage applications and business models
17:00 PM	Keynote 5 CHRISTIAN KLUTH Head, Battery Test Center, VDE Testing & Certification Institute, Germany Safety as a core foundation for bankability Advancements in safety testing for battery systems
17:15 PM	Panel 4 Adopting best practices and driving standardisation to achieve bankability <ul style="list-style-type: none"> • Taking into account the current gaps, what best practices need to be adopted by the industry in order to achieve differentiation and bankability? • What factors need to be considered for assessing the safety and performance of energy storage systems? • What is the current status of standards and quality assurance for energy storage systems? • How can standards and quality assurance help drive bankability for financiers and insurers? • What considerations need to be taken into account for the formation of standards for energy storage systems? • How can risk be further mitigated with insurance solutions? DR.-ING. NIKLAS HARTMANN Scientist, Renewable Energy Innovation Group, Fraunhofer Institute for Solar Energy Systems (ISE), Germany FELIX HOLZ Vice President, Expertenteam Greentech, Deutsche Bank AG, Germany CHRISTIAN KLUTH Head, Battery Test Center, VDE Testing & Certification Institute, Germany TBC Major insurance company DR. ALEXANDER HIRNET Technical Director, VARTA Storage GmbH, Germany TBC VDE FNN, Germany
18:15 PM	Closing remarks BURKHARD HOLDER Head of Division ET – Energy & Smart Technologies, VDE Testing & Certification Institute, Germany
18:30 PM	Joint Shuttle Bus Transfer to Dinner & Party



**ENERGY®
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International Conference and Exhibition
for the Storage of Renewable Energies

27 March 2014
CCD Süd, Messe Düsseldorf
Düsseldorf, Germany

ENERGY STORAGE DAY 3: THURSDAY 27 MARCH 2014

8:30 AM	Registration - Networking Breakfast - Visit of Exhibition
9:00 AM	Opening Session - Energy Storage Excellence in the State of North Rhine-Westphalia
	Intro Session Chair DR. FRANK-MICHAEL BAUMANN Managing Director, EnergyAgency.NRW
9:20 AM	Keynote GARRELT DUIN Minister of Economic Affairs, Energy and Industry of the State of North Rhine-Westphalia
9:50 AM	Questions and Discussion
10:10 AM	Networking Coffee Break - Visit of Exhibition
10:40 AM	Thermal Energy Storage Solutions
	Intro Session Chair DR. ANDREAS HAUER Head of Division "Energy Storage", Bavarian Center for Applied Energy Research (ZAE Bayern): Thermal Energy Storage - Applications and Technologies
10:50 AM	DOUG MCCLENAHAN Manager "Active Solar R&D Program", Natural Resources Canada, CANADA: Drake Landing: World Record Solar Performance Using Seasonal Heat Storage
11:10 AM	MARTIN TREDER Deputy Managing Director, ITAD - Interessengemeinschaft der Thermischen Abfallbehandlungsanlagen in Deutschland e.V. and DR. ANDREAS HAUER : Mobile Sorption Storage for Waste Heat Utilization
11:30 AM	DR. MARKUS ECK Research Area Manager Thermal Energy Storages and DR. ANTJE WÖRNER Head of Department Thermal Process Technology, German Aerospace Center, (DLR): Thermal Energy Storage - Key Component for Solar Thermal Power Plants
11:50 PM	STEFAN HÜBNER Project Manager Energy Production and Storage, Linde AG: Molten Salt Thermal Storage Systems for Power Plants and Industrial Process Plants
12:10 PM	Questions and Discussion
12:30 PM	Lunch Break - Visit of Exhibition
13:00 PM	Storage in Action Presentations @ Speakers Corner
14:00 PM	Building the Global Ecosystem for Grid Storage
	Intro Session Chair JANICE LIN Managing Partner, Strategen Consulting LLC, Co-Founder and Executive Director California Energy Storage Alliance, USA: Building the Ecosystem for Energy Storage through Global Collaboration
14:10 PM	DR. HIROSHI EDO HANAFUSA Leader Energy Solutions Center, Panasonic Corporation, JAPAN: Energy Storage Solutions - the Case of Japan
14:30 PM	DR. RAHUL WALAWALKAR Vice President, Emerging Technologies & Markets, Customized Energy Solutions & Executive Director, India Energy Storage Alliance (IESA) & Secretary, Electricity Storage Association (ESA); INDIA: 20 GW by 2020 - Perspectives of the Indian Energy Storage Markets
14:50 PM	TINA JING ZHANG Managing Director, China Energy Storage Alliance (CNESA), CHINA: Hot New Market Opportunities in China
15:10 PM	TOBIAS COSSEN Project Manager - Project Development Programm, Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH: Emerging Markets for Storage Solutions in Sight - A Market Analysis for Kenya and the Philippines
15:30 PM	ROBERT STASKO Executive Director, Ontario Energy Storage Alliance, CANADA: An Overview of the Markets for Energy Storage in Ontario and Canada - Common Challenges but Uncommon Solutions
15:50 PM	Questions and Discussion

16:20 PM	Closing Remarks
	PROF. DR. EICKE R. WEBER Conference Chairman, Director Fraunhofer ISE, Chairman Fraunhofer Energy Alliance and President of the German Energy Storage Association (BVES)
16:30 PM	Networking Coffee Break - visit of Exhibition
17:00 PM	BVES Annual Members Meeting (BVES Members Only Event)
19:30 PM	BVES „Members Get Together“ (BVES Members Only Event)

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June 23 - 24, 2014



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3RD CONFERENCE ON POWER-TO-GAS

THURSDAY 27 MARCH 2014

8:00 AM	Registration - Networking Breakfast - Visit of Exhibition
8:30 AM	Opening Address BERND PORZELIUS OTTI e.V., Regensburg, Germany
8:35 AM	Aim of the Conference PROF. DR.-ING. MICHAEL STERNER University of Applied Sciences, Regensburg, Germany
8:45 AM	Power to Gas – an innovative contribution to a sustainable energy system ANNEGRET-CL. AGRICOLA Division Head Energy Systems and Energy Services, German Energy Agency (dena), Berlin, Germany
Market development conditions for PtG	
9:05 AM	Required regulation for a reliable business case for power to gas technology in a new energy world WERNER DIWALD performing energy – Initiative for Wind-Hydrogen, Germany
9:30 AM	Systems Analyses perspectives on PtG LUKAS GROND Consultant Renewable Gases DNV GL Oil & Gas, KEMA, Nederland BV, Groningen, Netherlands
9:55 AM	Discussion
10:05 AM	Networking coffee break – visit of exhibition
PtG industry supply chain	
10:45 AM	Power-to-Gas status outside Germany FILIP SMEETS Hydrogenics Europe N.V., Oevel, Belgium
11:10 AM	Technology, applications in pilot projects “Projects in UK” PHIL DORAN ITM Power GmbH, Schmitten, Germany
11:35 AM	Discussion
PtG implementation of hydrogen	
11:45 AM	One important part of the story: Power to Gas pilot plants “Falkenhagen” and “Reitbrook”, Germany DR. ANDREI ZSCHOCKE Program Manager Power to Gas E.ON Innovation Center Energy Storage, Essen, Germany
12:10 PM	Discussion
12:15 PM	Lunch break – visit of exhibition
PtG implementation of hydrogen	
13:45 PM	PTG PLANT “ENERGIEPARK MAINZ” - PROJECT STATUS AND OUTLOOK JONAS AICHINGER Stadtwerke Mainz AG, Mainz, Germany
14:10 PM	Thüga – Operation of a PtG plant in Frankfurt, Germany DR.-ING. ELKE WANKE Thüga AG, München, Germany
14:35 PM	Discussion
PtG implementation of methane gas	
14:45 PM	BIOLOGICAL METHANISATION AND ITS ROLE IN THE FUTURE ENERGY SYSTEM ULRICH SCHMACK MicrobEnergy GmbH, Schwandorf, Germany
15:10 PM	CURRENT STATUS OF ELECTROCHAEA'S BIOCATALYTIC METHANATION TECHNOLOGY DOMINIC HOFSTETTER Electrochaea, Denmark/USA
15:35 PM	POWER-TO-GAS IN OPERATION – EXPERIENCES WITH THE AUDI 6 MW PLANT IN WERLTE REINHARD OTTEN Umwelt Produkt, AUDI AG, Ingolstadt, Germany
16:00 PM	Discussion

16:15 PM	Networking coffee break – visit of exhibition
16:30 PM	Panel discussion “What comes next: How to implement PtG on a European scale” Moderation: PROF. DR.-ING. MICHAEL STERNER University of Applied Sciences, Regensburg, Germany ANNEGRET-CL. AGRICOLA Deutsche Energie-Agentur GmbH (dena), Berlin, Germany DR. GERALD LINKE DVGW-Cluster, Bonn, Germany DR. ANDREI ZSCHOCKE E.ON, Essen, Germany FILIP SMEETS Hydrogenics Europe N.V., Oevel, Belgium
17:15 PM	Closing Remarks PROF. DR.-ING. MICHAEL STERNER University of Applied Sciences, Regensburg, Germany
17:30 PM	End of the Conference

Breakfast, Coffee Breaks and Lunch Break are included and will be served together with the Energy Storage (same time - same location).

Tickets for the 3rd Conference on Power-to-Gas are available under www.otti.eu/register/PTG-4510

Combined tickets - Energy Storage/Power-to-Gas - are available under www.energy-storage-online.com/2130

4TH STORAGEEDAY 27 MARCH 2014 (ONLY IN )

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AM 27. MÄRZ



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