

WORLD OF ENERGY SOLUTIONS

October 12–14, 2015

Messe Stuttgart, Germany



International trade fair and conference



Three events under one roof: Background and history

- The WORLD OF ENERGY SOLUTIONS is the key event for the energy and mobility transition: every October three intensive days of trade fair, conference, seminars, workshops and matchmaking events create a unique network and focused outlook on developments in the battery and storage field, hydrogen and fuel cell technology and electric mobility. Since 2012 the BATTERY+STORAGE, e-mobility solutions and f-cell have been drawing together potentials and networks at the WORLD OF ENERGY SOLUTIONS.
- WORLD OF ENERGY SOLUTIONS is a joint project of e-mobil BW GmbH, Landesmesse Stuttgart GmbH, Peter Sauber Agentur Messen und Kongresse GmbH and Wirtschaftsförderung Region Stuttgart GmbH.

Hosts



e-mobil BW
Landesagentur für Elektromobilität und
Brennstoffzellentechnologie Baden-Württemberg GmbH



**PETER SAUBER
AGENTUR**
Messen und Kongresse GmbH



**Wirtschaftsförderung
Region Stuttgart**



Messe Stuttgart
Mitten im Markt



In cooperation with

Partner country



Baden-Württemberg

MINISTERIUM FÜR UMWELT, KLIMA UND ENERGIEWIRTSCHAFT



WES 2015 PARTNERCOUNTRY HOLLAND E-MOBILITY PRESENTS **BRABANT**: CENTER OF DUTCH HIGH-TECH, AUTOMOTIVE & SMART MOBILITY

Partners



Official Airline Partner





International networking event: At a glance

- Conference with plenaries and technical sessions
- Dialog forum green2market
- Trade fair
- Evening event with f-cell award ceremony
- Partner country reception
- Ride & Drive
- Seminars (teacher, trades people and handicraftsmen, energy consultants)
- Working groups
- Matchmaking events
- Press conference, press tours
- VIP tours



Conference

Focus in 2015: “Electric mobility: A tangible change”

- 35 sessions including 138 presentations from 163 speakers
- International speakers from Belgium, Canada, China, France, Germany, Greece, Italy, Japan, Netherlands, Norway, Poland, Taiwan, United Kingdom, United States, South Africa
- Fields: Innovative products and applications, research approaches and technologies, sustainable electric mobility concepts
- Technologies: Battery and storage technologies, fuel cell and hydrogen applications, future mobility solutions
- 492 participants from 26 countries

Conference program overview






Monday, October 12, 2015

9:30 – 10:30	10:50 – 12:30
A Opening Plenary *	B1 Mobile applications cars  
	B2 Research and development 
	B3 Production 
	B4 Hydrogen generation 
	B5 Dialog forum green2market: General keynote and keynotes for workshops * 


14:30 – 16:10	16:40 – 17:10
C1 Infrastructure – H2 around your corner  	D Closing *
C2 System components 	
C3 Stationary applications 	
C4 Hydrogen utilization 	
C5 Dialog forum green2market: Workshop mobility ** 	C8  Closing green2market *
C6 Dialog forum green2market: Workshop building and energy technology * 	
C7 Dialog forum green2market: Workshop large-scale projects ** 	





Tuesday, October 13, 2015

9:30 – 10:30	10:50 – 12:30
E Plenary	F1 Mobile applications buses  
	F2 Smart grids 
	F3 Battery safety 
	F4 Production 
	F5 Marketing 

14:30 – 16:10	16:40 – 17:10
G1 Mobile applications commercial vehicles  	H Closing
G2 Hydrogen safety, regulations and standards 	
G3 Research and development 	
G4 Stationary applications 	
G5 Financing 	

Wednesday, October 14, 2015

9:30 – 10:30	10:50 – 12:30
I Plenary *	J1 Charging infrastructure as part of local mobility concepts 
	J2 Mobile applications light vehicles and cars  
	J3 Battery storage 

14:30 – 16:10	16:40 – 17:10
K1 Automated drive and digitalization 	L Closing
K2 Mobile applications buses and commercial vehicles  	
K3 Battery systems 	

The conference will be held in English.

* Some sessions will be simultaneously interpreted German/English and vice versa. ** Only German

 BATTERY+STORAGE
  f-cell
  e-mobility solutions
 green2market
  Overall topics



Trade fair

Focus in 2015: BATTERY+STORAGE – Module and pack assembly

- A total of **117 exhibitors** from 15 countries presented their products and services to 3.000 participants from 30 countries.
- Total exhibition space (net): 1.537 m²
- **Pavilions:** Canada, The Netherlands and Region Noord-Brabant, Fraunhofer Alliance Batteries, Hessen, Research&Development made in Germany, North Rhine-Westphalia, Taiwan Battery Association
- **Fields:** Materials and components, Production equipment and accessories, Manufacturing automation, Power electronics, Test, Measurement and inspection technology, Batteries, Energy storage solutions/applications, Safety technologies, Research and development, H2-Production, H2-Storage, H2-Infrastructure, Fuel cells, Fuel cell applications, Fuel cell components, Fuel cell test benches, Production technology, Materials, Mobility solutions, Vehicle technology, Smart Grids, Services

Evening event and f-cell award ceremony: Casual networking at the “Alte Reithalle”

- For the first time in the “Alte Reithalle“ at the Maritim Hotel, the evening event offered a unique atmosphere for the 207 participants. Live music, a tasty Swabian buffet and the 15th f-cell award ceremony were the highlights of the evening.
- Winner f-cell award 2015 **products & market**: ElringKlinger AG
- Winner f-cell award 2015 **research & development**: Department of Microsystems Engineering (IMTEK) of the University of Freiburg



Ride & Drive: An extraordinary driving experience

- Over 600 test drives with 4- and 2-wheelers
- Participants could choose between AUDI A3 E-Tron, VW Passat GTE, VW Golf GTE, VW eGolf, VW eUp, Toyota Mirai, Mercedes-Benz B-Class Electric Drive, Mercedes-Benz B-Class F-Cell, Tesla Model S, Peugeot ION, Peugeot Partner Electric and FUSO Canter E-truck for their 15-minute test drive.
- In addition, participants were able to test their Segway skills in a thrilling adventure circuit and drive the brand-new “Ziesel”, a one-seater track.



Matchmaking events

International and exclusive Dutch-German Matchmaking event. The results overall:

- 43 participants from 10 countries joined the Matchmaking sessions
- 58 bilateral meetings took part
- International meetings: 49 (84.48%) (Participants have different nationalities)





Facts and figures 2015 *

Conference	Conference participants	492
	Number of presentations	138
	Countries	26
Trade fair	Exhibitors	117
	Participants	3.000
	Total exhibition space (net)	1.537 sqm
Evening event	Number of participants	207
Seminars	Seminar for teacher	27
	Seminar for energy consultants	10
	Seminar for tradespeople and employees from industry and handicraft	14
Ride & Drive	Number of test drives (4-wheeler only)	378
	Number of 4- and 2-wheeler	24

*One entry may occur in different categories.

Facts and figures 2015

Customer voices

- “The WORLD OF ENERGY SOLUTIONS is a fantastic network event where entrepreneurs come together to share their views on sustainability, to talk about how we can make a better world. We have had wonderful days with fruitful high-level meetings, for example with the Minister of the Environment. We see many economic opportunities for the coming years – but we have to work very hard.” Vice Governor Bert Pauli, Noord-Brabant, 's-Hertogenbosch, Netherlands
- “I gave a talk on venture capitalists and green technologies and I have thoroughly enjoyed the conference and its stimulating conversations. In sum, I gained many new insights into the manufacturing aspect of batteries and fuel cells, especially into the principles of network operation of grid operators. And yes, I'd like to come again next year.” Dr. David Hart, Director, E4tech, Lausanne
- „Ich denke, die Messe ist ausbaufähig. Die Themen sind gut. Müssen aber noch weiter in der Öffentlichkeit verankert werden. Hab mich mit einem Aussteller unterhalten. Dieser war sehr zufrieden.“ Manfred Spaltenberger
- „Zunächst möchte ich mich für die gelungene WOS bedanken, zwar wurde allgemein die schlechte Vortragsqualität in der Konferenz bemängelt ("in der Regel nur Werbung bei Firmenvorträgen") aber die Qualität der Fachbesucher war für uns auf der Messe hoch.“ Dr. Peter Beckhaus, Abteilungsleiter Brennstoffzellen- & Systemtechnik, Zentrum für Brennstoffzellentechnik ZBT, Duisburg
- „Batterieproduktion ist ein spannendes Thema, wir haben auf der Messe und auf der Konferenz viel Sichtbarkeit dafür bekommen. An unserem Stand war die Roadmap Batterieproduktionsmittel stark nachgefragt und das positive Geschäftsklima fand großen Anklang. Die Batteriemaschinenbauer sind sehr erfolgreich im Export und erwarten mittelfristig auch stärkere Nachfrage aus Europa – Herausforderung und Chance für die Industrie und die BATTERY+STORAGE gleichermaßen. Das spornt uns an.“ Dr. Eric Maiser, Leiter Industriekreis Batterieproduktion, Verband Deutscher Maschinen- & Anlagenbauer VDMA, Frankfurt am Main

Impressions

Conference

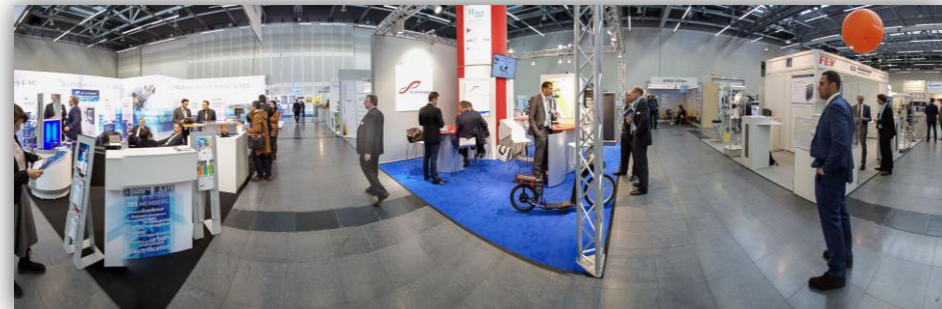
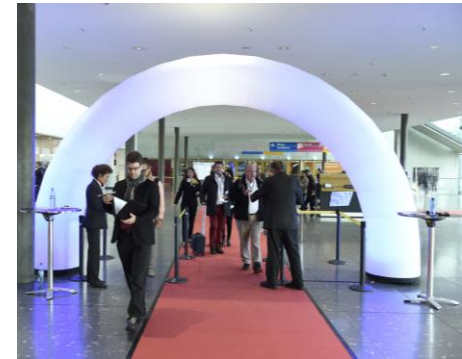
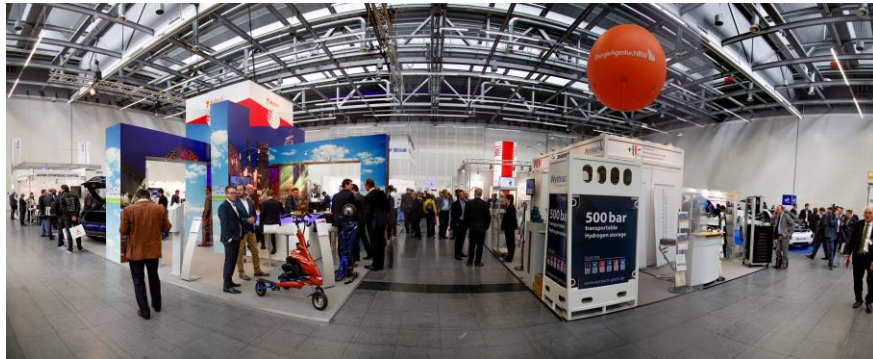


Partner Country Reception



Impressions

Trade fair



WORLD OF ENERGY SOLUTIONS

Save the date

October 10 – 12, 2016

