

# Invitation



*Powering the future  
International workshop EnergyKeeper*



Sustainable  
Storage  
Solutions

**ENERGY KEEPER**



**Smart management is the basis for future energy systems.** Ten partners from industry and research have joined their forces in »EnergyKeeper« to develop a smart grid featuring a metal-free redox flow battery. They will present the results of this cutting-edge H2020 project and debate the policy needed for sustainable storage solutions with invited speakers on a panel discussion.

Visit the ACRRES testsite for renewable energy on **29 October 2019** and join the discussion.

**What to expect?** A 30 kW redox flow battery using metal-free energy storage materials with a capacity of 100 kWh was constructed and equipped with an interoperable battery management system enabling plug and play integration into a smart grid. Communications architecture, grid control and demand side management systems were designed and implemented in order to demonstrate the benefit of using energy storage systems for ancillary services to the distribution grid. Several prosumer business models were evaluated. The developed technologies have been integrated with real renewable energy sources and variable power consumption demonstrated at the ACRRES test site (Lelystad, Netherlands).

#### **Subscription is free and possible until 15 October 2019**

Subscription via | <http://www.acrres.nl/en/energykeeper-symposium/>

For practical information | **Margherita Leoni** T | +31 320 291646 | [margherita.leoni@wur.nl](mailto:margherita.leoni@wur.nl)

For information on the content | **Andries Visser** T | +31 320 291347 | [andries.visser@wur.nl](mailto:andries.visser@wur.nl) or

**Tobias Janoschka** T | +49 364 18793531 | [tobias.janoschka@jenabatteries.de](mailto:tobias.janoschka@jenabatteries.de)

# Programme | Tuesday | October 29<sup>th</sup> 2019

9:00	Registration & welcome coffee	
9:30	Opening remarks	Virginijus Radziukynas   Lithuanian Energy Institute
9:35	Introduction of EnergyKeeper smart grid & ACRRES test site	Tobias Janoschka   JenaBatteries GmbH Andries Visser   Wageningen UR
<b><i>Presentation of Energykeeper Smart Grid</i></b>		
10:00	Smart grid control system & user interface	Yacov Yaniv – PISGA Software & Communication Ltd.
10:25	Metal-free redox flow battery: The answer to the metal scarcity problem	Diego Honrubia – Ingenieria Cruz   Marqués S.L.P Olaf Conrad   Jena batteries GmbH
10:50	Metering a smart grid: solutions and next challenges	Michele Liziero   Energy Team SpA
<b><i>Knowledge transfer "Elevator pitch"</i></b>		
11:15	Critical raw material free battery technology for automotive and stationary applications	Flavia Palombarini   LEITAT Technological Center
11.30	Redox Flow Battery testing	Frans van Berkel   ECN part of TNO
<b><i>Test site visit</i></b>		
12:00	Tour of EnergyKeeper smart grid / Lunch break	
<b><i>Energy policy</i></b>		
13:45	Clean energy community engagement: Falck Renewables sustainability approach	Alessandro Costa   Monica Airoidi   Falck Renewables SpA
14:15	Transition in energy systems & energy markets	Ruud van den Brink   ECN part of TNO
14:45	European Energy Policy: A review	Arturas Klementavicius   Lithuanian Energy Institute
15:00	Panel discussion - Policy needs for the promotion of EES	
15:30	Networking reception   End	

**Our address** | BioScience Centre | Runderweg 6 | 8219 PK Lelystad | T +31-(0)320-277500

How to reach us:

BioScience Centre - Wageningen University and Research Lelystad is centrally located in the Netherlands and easily accessible by car, bus and from Lelystad Airport. At the BioScience Centre's entrance there is a public bus stop (bus line 163 Lelystad/Dronten). This bus line passes by train station Lelystad Centraal. There is ample free parking (including parking spaces for buses). The Smart Energy Test Site is within walking distance.



**ENERGY KEEPER**

**ENERGY KEEPER**