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Conference

March 12-14, 2019
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PROGRAM

IRES CONFERENCE - DAY 2

		Wednesday, March 13, 2019				
© Time	Information & Speaker	Room 801	Information & Speaker	Room 812 1st floor	Information & Speaker	Room 814b 1st floor
11:00 - 13:00	STORAGE ON THE MOVE Session A2: Power to Gas Chair: Dr. Tom Smolinka		BATTERIES Session B2: Batteries Chair: Johannes Wüllner	THERMAL Session C2: Thermochemical Energy Storage Chair: Dr. Wim van Helden	APPLICATIONS, CASE STUDIES, SYSTEM ANALYSIS Session D1: Applications & Case Studies Chair: Björn Nienborg	
	Spatiotemporal Analysis of the Concurrent Availability of CO2 and Surplus Electricity for Power-to-Gas in Switzerland Dr. Sinan Teske, Empa		Topology and Efficiency Analysis for Medium and Utility Scale Battery Storage Systems Dr. Holger Hesse, Technical University of Munich	Experimental Analysis of CaO/Ca(OH)2 as Thermochemical Storage in a Moving Bed Reactor Aldo Cosquillo Mejía, Deutsches Zentrum für Luft- und Raumfahrt	100% Solar Energy for Heating and Electricity all Year Around by a Solar and Heat Pump System combined with Aluminium Redox Seasonal Storage Dr. Michael Haller, HSR University of Applied Sciences Rapperswil	
	Power to Gas by Chemical Methanation as part of an Integrated Research Platform Dr. Ulrich Gardemann, Zentrum für BrennstoffzellenTechnik ZBT GmbH		Transient Behavior of the Thermal Management for Cylindrical Li-Ion-Batteries based on Phase Change Material Composite Sebastian Garmisch, Fraunhofer ISE	A lab-scale bulk reactor to support optimised component design for long-term thermal energy storage Benjamin Furney, Empa, Swiss Federal Laboratories for Materials Science and Technology	Considering Ecological Sustainability in Planning the Future Electricity Supply of Chile - How Much More Does it Cost? Tobias Junne, German Aerospace Center e.V.	
	Decentralized City District Hydrogen Storage System Based On The Electrochemical Reduction Of Carbon Dioxide To Formate Daniel Lust, Hochschule für Technik Stuttgart		A Novel, Scalable, Low-Cost and High-Efficiency Battery Storage System Topology Nam Truong, Universität der Bundeswehr München	Experimental Results of a 32 kWh Thermochemical Heat Storage System for Domestic Application Samuel Knabi, AEE INTEC	Power Quality In Smart Distribution Systems With Electric Battery, Large PV Generation And Electric Vehicle Charging Stations Miguel Muñoz Ortiz, Sintef Energi AS	
	Underground Hydrogen Storage - Implementing Large Scale Energy Storage in Salt Caverns Stefan Bergander, HYPOS e.V.		Batteries And Pumped-Hydro: Pooling For Synergies In The Frequency Response Provisioning Achim Schreider, Lahmeyer International GmbH	Comparison between Numerical Simulation and Neutron Radiography of Ammonia Sorption in SrCl2 Anastasiia Karabanova, Technical University of Denmark	Energy Network Freiburg - Hydrogen Generation And Feed-in In The Context Of Municipal Distribution Grids Christoph Voglstätter, Fraunhofer ISE	
	Techno-economic Assessment Of Different Design And Operation Concepts Of A Power To Hydrogen Plant Fed By A Photovoltaics Power Plant Nikolas Knetsch, Fraunhofer ISE		Combining Thermochemical Energy Storage With Solar Thermal - From Lab To Prototype Dr. Danny Müller, TU Wien			