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# DESIGNING AND VALIDATING THE FUTURE INTELLIGENT, ELECTRIC POWER SYSTEMS

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**Workshop in Kassel, Germany – 06 September 2017**

*Fraunhofer IWES SysTec Lab, Sonnenallee 30, 34233 Fuldaatal*

**Meeting point:  
Fraunhofer IWES  
Königstor 59  
34119 Kassel**

**08<sup>00</sup>** Bus leaves IWES to SysTec Lab

**08<sup>50</sup> - 09<sup>00</sup>** Welcome and introduction @ SysTec (IWES)

**09<sup>00</sup> - 10<sup>30</sup> ELECTRA IRP - European Liason on Electricity Committed Towards long-term Research Activity Integrated Research Programme**

- Overview of ELECTRA – *Luciano Martini, RSE S.p.A.*
- Web of Cells real-time concept and corresponding use cases – *Chris Caerts, VITO & Julia Merino, TECNALIA (tbc)*
- Development of Joint Research Facilities - Integration and Lab Testing for Proof of Concept – *Thomas Strasser, AIT & Mihai Calin, DERlab*
- Future decision support systems – *Henrik Bindner, DTU*
- Experiences from the ELECTRA REX – *Graeme Burt, University of Strathclyde*
- Open discussions and final remarks – *all*

**10<sup>30</sup> - 11<sup>00</sup> Coffee and Networking**

**11<sup>00</sup> - 12<sup>30</sup> ERIGrid – Connecting European Smart Grid Infrastructures**

- The ERIGrid Integrated Research Infrastructure for Validating Cyber-Physical Energy Systems – *Thomas Strasser, AIT*
- Holistic system integration and validation procedure – *Kai Heussen, DTU*
- Enhanced simulation and lab-based testing methods and tools – *Rishabh Bhandia, TU Delft & Oliver Gehrke, DTU*
- Open discussion and feedback - *moderation Thomas Strasser, AIT*
- Wrap-up, summary and conclusions – *Cyndi Moyo, AIT*

**12<sup>30</sup> - 13<sup>30</sup> Lunch and networking**

**13<sup>30</sup> - 15<sup>30</sup> Labvisit and demo (IWES)**

**15<sup>30</sup> - 16<sup>00</sup> Coffee and networking**

**16<sup>00</sup> - 17<sup>00</sup> Panel discussion: Role of Microgrids Research in Future Power System Research –**  
*Panelists: Blake Lundstrom (NREL), Changee Cho (KERI) and more experts not yet confirmed*

- SIRFN Microgrids sub-task
- IEC and IEEE standards for Microgrid controller testing requirements
- Application of Microgrids in ongoing projects

**17<sup>00</sup> - 17<sup>30</sup> Open discussion: New H2020 2018-2020 framework - *Diana Strauß-Mincu, IWES/DERLab***

**17<sup>30</sup> - 18<sup>00</sup> Conclusions and closing of the workshop**

**18<sup>00</sup> - 20<sup>30</sup> Networking dinner (20<sup>30</sup>: Bus leaves back to Kassel)**