



# ComForEn 2014

# Industry Day

## Smart and Secure Secondary Substations

01. Oktober 2014, 10:00–17:00

AIT Austrian Institute of Technology GmbH

Giefinggasse 2, 1210 Wien



# Industry Day

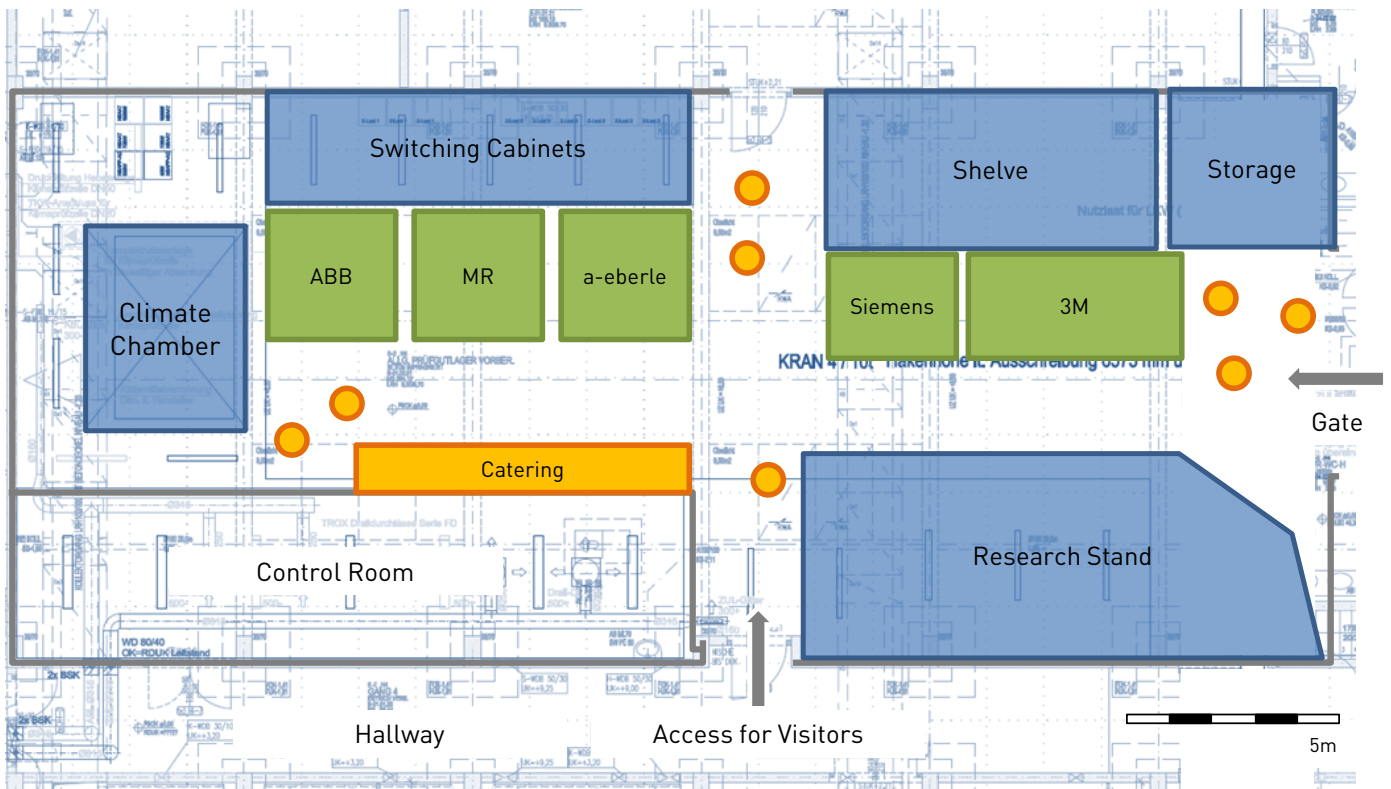
## Smart and Secure Secondary Substations

The **ComForEn 2014 Industry Day** brings together equipment providers and grid operators. The event aims to exchange experience and information on latest developments in the context of secondary substation technology. The Industry Day will feature both, deep conceptual insights from a **moderated presentation panel** and hands-on experience of innovative substation equipment at the smart secondary substation **exhibition in the AIT SmartEST Laboratory**.

While primary stations are closely integrated into distribution management systems, the vast majority of secondary stations

are operated passively today. **New operation paradigms** for low voltage distribution networks caused by increasing connections of distributed generation, active demand, electric mobility and dedicated distributed energy storage will require on-line monitoring of more and low voltage substations. In order to manage the growing number of distributed generators, new functionalities have to be integrated at secondary substation level. Furthermore, **IT security** plays a vital role in the realisation of smart secondary substations due to the large number of connected devices in the field.

### Exhibition Floorplan



- Exhibitors
- Catering
- SmartEST Infrastructure



## Program

### Talks (10:00 – 13:15)

10:00	Welcome
10:10	Friederich Kupzog, AIT Energy: Smart Secondary Substations: a modular approach
10:20	Steve Van den Berghe: International Experiences of Smart Secondary Substation Technology – Smart grid at the DSO Eandis (Belgium)
10:40	Manuel Sojer, Maschinenfabrik Reinhausen: Regelbare Ortsnetztransformatoren zur Verbesserung der Netzintegration von erneuerbaren Energien
11:00	Stefan Kämpfer, ABB Belgien: Applications for smart secondary substations based on selected pilot projects
11:20	Coffee Break
11:35	Tobias Gawron-Deutsch, Siemens AG Österreich: Die Intelligente Ortsnetzstation – Demonstrator
11:50	Hermann Bühler, Bühler GmbH: Smarte Kommunikation für Smarte Netze
12:10	Thomas Bleier, AIT Safety & Security: Security Challenges in smart distribution
12:30	Michael Mansholt, 3M: Why will physical security matter to PUs in the future?
12:50	Stefan Hoppert, a-eberle: LVRSys™ - das revolutionäre Niederspannungsregelsystem
13:15	Lunch

### Exhibition (14:00 – 17:00)

**Voltage control with MV/LV tap changer transformer**  
*Maschinenfabrik Reinhausen*

**Feeder voltage control with LVRSys**  
*a-eberle*

**Demonstration Setup Intelligent Low Voltage Network**  
*Siemens Cooperate Technology*

**Smart Secondary Substation Solutions**  
*ABB*

**Smart Infrastructure Management System | Sensored Cable Accessories**  
*3M Smart Grid - Connected, Efficient and Sustainable Energy*

**SmartEST – Smart Energy Systems and Technologies Laboratory**  
*AIT Energy*



## ComForEn – 5<sup>th</sup> Symposium on Communications for Energy Systems

ComForEn is a yearly two-days event that brings together energy and information technology experts from science and industry to discuss emerging topics in the context of current Austrian smart grids research projects. It is jointly organised by AIT Austrian Institute of Technology GmbH, Vienna University of Technology (Institutes of Computer Technology, Telecommunications as well as Energy Systems and Electrical Drives) and the OVE. The Industry Day is part of the Symposium to foster exchange between science, industry and infrastructure operators.

For more information see <http://energyit.ict.tuwien.ac.at/comforen2014>

## Orientation Map

