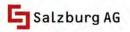
Smart Technology

Introduction

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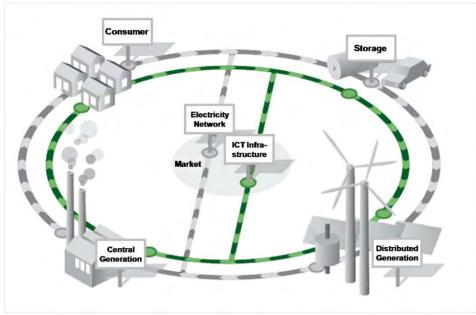
Helfried Brunner Deputy Head Business Unit Electric Energy Systems Energy Department Austrian Institute of Technology National Technology Platform Smart Grids Austria





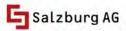
Smart Grids

Smart Grids are power grids, with a **coordinated management** based on **bi-directional communication** between grid components, generators, energy storages and consumers to enable an **energy-efficient and cost-effective system operation** that is ready for future challenges of the energy system.

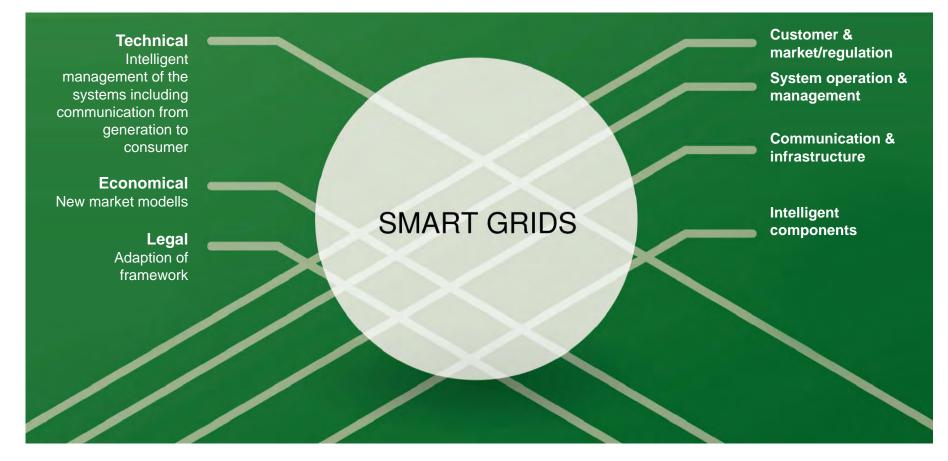


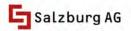


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Smart Grids - Framework





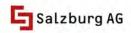


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Smart Grid deployment

Requires a partnership an coordination between:

- Research funding providing money
- Research organisations providing know-how
- Industry as technology providers
- Network operators service provider and Smart Grid operator
- Producers and consumers





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Presentations

- Infrax's Vision on Smart Grids, Filip Truyens, Infrax, Belgien
- Smart Energy Solutions Lab Vienna, Johannes Stadler, Alcatel-Lucent Austria AG, Österreich
- Smart Meters in Upper Austria Challenges & visions, Andreas Abart, Energie AG Netz GmbH, Österreich
- Enterprise Integration for the SmartGrid Era Challenges and Directions, Stamatis Karnouskos, Senior Researcher, SAP AG, Deutschland
- Sim Tech Labor and the EU NoE DER Lab, Wolfgang Hribernik, Energy Department, AIT Austrian Institute of Technology, Österreich
- Open Grid Open Architecture for Secondary Nodes of the SmartGrid, Friederich Kupzog, TU Wien & Siemens AG Österreich
- Smart Grids Week Washington, Anto Budiardjo, Clasma Events Inc,



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