

Smart GRIDs and FI PPP

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Scenarios

- The usual “core” suspects
 - Novel system services providing reliability and quality of power supply in the contexts of highly dynamic distributed power generation,
 - Demand side management and services for end-users
 - Virtual power plant management
 - Electric vehicle management
- Key cross issues
 - Process redesign => new business models (with new stakeholders)
 - Clear, safe and seamless migration path !!
- Clean slate for electricity Grids ???
 - ICT vs. electrical technology cycles
 - Culture
 - Crucial infrastructure
- Step-by-step evolution ?

Requirements

- Novel (?) functionalities
 - Context awareness
 - Sensor networks
 - Advanced real time communication capabilities
 - Advanced real time processing capabilities handling huge volume of data
- Managed broadband connectivity and services
 - Support for analytics
 - Network protection
- Experimentation environment
 - Stress testing performance, functionality and scalability of novel FI technologies for Smart Grids systems
 - Millions of end-users

Smart Com competences

- Leading ICT partner of Electric Utilities in Slovenia
- Consultancy, design, development, and implementation of advanced ICT solutions
- Competences
 - Use case modelling
 - Process redesign, new business models
 - Requirements analysis and functional specifications
 - Definition of migration paths from traditional to Smart Energy Grids
 - Development of innovative applications and services for Smart Energy Grids on top of FI core technology platform
 - Set-up of experimentation environment
 - Stress testing, fine-tuning and validation of novel FI technologies in support of Smart Energy Grids
 - Technology transfer from experimentation environment to production systems in short time



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