Papers

Conference proceedings and journal papers introducing SmartHouse/SmartGrid concepts and solutions:

- Kok, K., S. Karnouskos, J. Ringelstein, A. Dimeas, A. Weidlich, C. Warmer, S. Drenkard, N. Hatziargyriou, V. Lioliou (2011):**Testes de casas inteligentes para implementação de smart grid**, *Eletricidade Moderna*, Oct 2011, São Paulo, Brazil. (note: for the English version please check the CIRED article below)

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- Kok, K., S. Karnouskos, J. Ringelstein, A. Dimeas, A. Weidlich, C. Warmer, S. Drenkard, N. Hatziargyriou, V. Lioliou (2011): **Field-Testing Smart Houses for a Smart Grid**, *Proceedings of the 21st International Conference on Electricity Distribution CIRED 2011*, Frankfurt.

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- Jötten, G., A. Weidlich, L. Filipova-Neumann, A. Schuller (2011): **Assessment of Flexible Demand Response Business Cases in the Smart Grid**, *Proceedings of the 21st International Conference on Electricity Distribution CIRED 2011*, Frankfurt.

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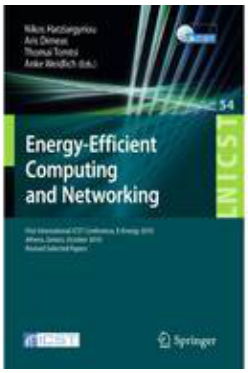

- Hatziargyriou, N., A. Dimeas, T. Tomtsi, A. Weidlich (Eds.) (2011): Energy Efficient Computing and Networking, *Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering* 54(3), Springer - including the articles:
  - S. Karnouskos, P. Goncalves da Silva, D. Ilic: **Performance evaluation of web service enabled smart metering platform** , pp. 54-63.

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  - S. Karnouskos, A. Weidlich, K. Kok, C. Warmer, J. Ringelstein, P. Selzam, A. Dimeas, S. Drenkard: **Field Trials towards Integrating Smart Houses with the Smart Grid**, pp. 114-123.

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- Karnouskos, S., P Goncalves da Silva, D. Ilic (2011): **Assessment of high-performance smart metering for the web service enabled smart grid**, Second ACM/SPEC International Conference on Performance Engineering (ICPE?11), Karlsruhe, Germany.

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- Kok, K. (2010): **Multi-Agent Coordination in the Electricity Grid, from Concept towards Market Introduction**, *Ninth Conference on Autonomous Agents and Multiagent Systems AAMAS 2010*, Industry Track, Toronto, Canada.

  Download
- Kok, K., G. Venekamp, P. Macdougall (2010): **Market-based Control in Decentralized Electrical Power Systems**, *First International Workshop on Agent Technologies for Energy Systems* (ATES 2010) at the ninth Conference on Autonomous Agents and Multiagent Systems AAMAS 2010, Toronto, Canada.

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- Karnouskos, S., T. Nass de Holanda (2009): **Simulation of a smart grid city with software agents**, *European Modelling Symposium* EMS 2009, Athens,

November 2009.

Download
- Warmer, C., K. Kok, S. Karnouskos, A. Weidlich, D. Nestle, P. Selzam, J. Ringelstein, A. Dimeas, S. Drenkard (2009): **Web services for integration of smart houses in the smart grid**, *Grid-Interop Conference*, Denver, November 2009.

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- Kok, K., S. Karnouskos, D. Nestle, A. Dimeas, A. Weidlich, C. Warmer, P. Strauss, B. Buchholz, S. Drenkard, N. Hatziargyriou, V. Lioliou (2009):**Smart Houses for a Smart Grid**, *20th International Conference on Electricity Distribution CIRED*, Prague, June 2009.

Download
- Weidlich, A., S. Karnouskos (2009): **Integrating Smart Houses with the Smart Grid Through Web Services for Increasing Energy Efficiency**, *10th IAEE European Conference*, Vienna.

Download (Abstract)
- Nestle, D., J. Ringelstein, P. Selzam (2009): **Einbindung von Stromkunden in ein intelligentes Verteilnetz - Geschäftsmodelle und IT-Infrastruktur** , English title: **Integration of Smart Houses into a Smart Distribution Grid - Business Models and IT-Infrastructure**, *VDE ETG-Kongress (Germany)*.

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Other related publications (co-)authored by project members

- Karnouskos, S. (2010): **The cooperative internet of things enabled smart grid**, *Proceedings of the 14th IEEE International Symposium on Consumer Electronics* (ISCE2010), June 07-10, Braunschweig, Germany.

  Download
- Kok, K., M. Scheepers, R. Kamphuis (2009): **Intelligence in electricity networks for embedding renewables and distributed generation** , Chapter in: R.R. Negenborn, Z. Lukszo, and J.

Hellendoorn (eds): Intelligent Infrastructures, Springer.

- Weidlich, A., H. Vogt, S. Karnouskos (2009): **Wenn der Windpark mit der Waschmaschine redet...**, Wirtschaftsinformatik & Management 6/2009 (in German).

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Presentations

The presentations of the project held at different locations are available here.

Date	Event	Download (pdf)
Oct 17, 2011	IEEE SmartGridComm, European Smart Grid projects workshop	Presentation
Nov 18, 2010	6th Japan-Germany Industry Forum Tokio, Japan	Presentation
Apr 12, 2010	GREEMBED 2010 workshop in Stockholm, Sweden	Presentation
Oct 20, 2009	European Energy Efficiency Strategies event in Brussels, Belgium	Presentation
Sep 08, 2009	10th IAEE European Conference in Vienna, Austria	Presentation
Jun 11, 2009	CIRED conference in Prague, Czech Republic	Poster
Mar 19, 2009	Smart Grids Europe in Barcelona, Spain	Related presentation
Mar 19, 2009	ICT4EE Conference in Brussels, Belgium	Poster
Feb 11, 2009	Presentation at the E-World of Energy in Essen, Germany	Presentation

Deliverables

All public deliverables submitted to the Commission can be downloaded here.

Deliverable	Title	Available
D1.1	High-Level System Requirements	
D1.2	Technology Trends for SmartHouse/SmartGrid	
D2.1	In-House Architecture and Interface Description	
D2.2	Coordination Algorithm and Architecture Document	
D2.5	Final Architecture for SmartHouse/SmartGrid	
D3.1	Field Trial Demonstrator Designs	
D3.4	General Evaluation Report Including Lessons-Learned from all Three Field Tests	
D4.1	Case Study for 1 Million End-Users	
D4.2	Report on Simulation Programme and Results for Mass Application	
D5.1	Dissemination Plan	
D5.5	Public Report on SmartHouses/SmartGrid	