Smart TSO-DSO interactions schemes, market architectures and ICT Solutions for the integration of ancillary services from demand side management and distributed generation

Newsletters published twice a year

D7.3

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About SmartNet

The project SmartNet (http://smartnet-project.eu) aims at providing architectures for optimized interaction between TSOs and DSOs in managing the exchange of information for monitoring, acquiring and operating ancillary services (frequency control, frequency restoration, congestion management and voltage regulation) both at local and national level, taking into account the European context. Local needs for ancillary services in distribution systems should be able to co-exist with system needs for balancing and congestion management. Resources located in distribution systems, like demand side management and distributed generation, are supposed to participate to the provision of ancillary services both locally and for the entire power system in the context of competitive ancillary services markets.

• Within SmartNet, answers are sought for to the following questions:
• Which ancillary services could be provided from distribution grid level to the whole power system?
• How should the coordination between TSOs and DSOs be organized to optimize the processes of procurement and activation of flexibility by system operators?
• How should the architectures of the real time markets (in particular the markets for frequency restoration and congestion management) be consequently revised?
• What information has to be exchanged between system operators and how should the communication (ICT) be organized to guarantee observability and control of distributed generation, flexible demand and storage systems?

The objective is to develop an ad hoc simulation platform able to model physical network, market and ICT in order to analyse three national cases (Italy, Denmark, Spain). Different TSO-DSO coordination schemes are compared with reference to three selected national cases (Italian, Danish, Spanish).

The simulation platform is then scaled up to a full replica lab, where the performance of real controller devices is tested.

In addition, three physical pilots are developed for the same national cases testing specific technological solutions regarding:

• monitoring of generators in distribution networks while enabling them to participate to frequency and voltage regulation,
• capability of flexible demand to provide ancillary services for the system (thermal inertia of indoor swimming pools, distributed storage of base stations for telecommunication).

Partners
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Executive Summary

As part of task 7.1., General communication and dissemination activities, EUI, in cooperation with the Project Coordinator (RSE) and with the contribution of all the WP leaders, will create a series of newsletter targeting both the specialized and the general public.

The present document outlines the structure of the project newsletters, the target audience as well as the Stakeholders’ consultations launched together with the newsletters.
1 Introduction

As part of the project general communication and dissemination activities (Task 7.1.), all the project partners under the leadership of WP7 will prepare a series of newsletters to be published every 6 months during the duration of the project.
The project newsletter opens with a general address of the Project Coordinator introducing the project and launching the two stakeholders’ consultations.

The two stakeholders’ consultations cover the topics of Basic schemes for TSO-DSO coordination and ancillary services provision and Market design. To give maximum flexibility and facilitate the stakeholders, the consultations are done in a way to allow them to contribute either online or by email. The first results of the stakeholders’ consultations are expected by the end of September 2016.

Furthermore, the newsletter presents a series of 4 articles on the following topics:

Towards (Close) Harmony: Options for Enhanced TSO-DSO Coordination

Stairway to Heaven: First Steps in Building up the Three Technological Pilots

ICT Enabling Flexible Energy Grids

Small Market Changes, Giant Leaps for DERS

targeting both the specialized and general public.

The four articles are also available in the newly created blog available on the project webpage.

Finally, the newsletter provides also information on the project meeting in Copenhagen (http://smartnet-project.eu/news/coordination-meeting-copenhagen/) and promotes the SmartNet invited full-afternoon session at the European Utility Week in Barcelona (15 November 2016) (http://smartnet-project.eu/news/smartnet-project-barcelona/)

The newsletter was created and distributed using MailChimp. The target audience for the newsletter was of slightly less than 5,000 contacts (approximately 50 SmartNet Stakeholders, approximately 120 contacts of SmartNet Partners and EUI – FSR Energy List of approximately 4,700 contacts).

The newsletter is also available on the project homepage and will be shared with the project social media.

The following parameters will be monitored: open rate, click rate, 24 hour performance, top links clicked. In other words, we will monitor users’ activity by see how many contacts actually received, opened, clicked on some links and which ones. The parameters will allow to monitor and compare all the newsletters among themselves.
The Horizon 2020 project SmartNet aims at enabling and fostering the efficient and effective use of smart grids. The project involves the development of new services and technologies that will help in the integration of renewable energy sources into the grid. The project focuses on the development of smart grid services that can be used to optimize the flow of energy and reduce the costs associated with energy production and consumption.

SmartNet will provide a platform for the demonstration of new smart grid services, which will be developed and tested in real-world settings. The project involves partners from different countries, including Germany, France, Italy, and Spain, and covers a wide range of sectors, including energy, transportation, and agriculture.

The project aims to create a framework that can be used to support the development of new services and technologies that can help in the efficient and effective use of smart grids. The project will also provide a platform for the exchange of knowledge and best practices between partners, which will help in the development of new services and technologies that can be used to optimize the flow of energy and reduce the costs associated with energy production and consumption.

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The project newsletter opens with a general address of the Project Coordinator introducing the results of the first year of activities of the project, particularly the following deliverables:

- (D1.1) an analysis of system services requested at 2030
- (D1.3) an in-depth analysis of TSO-DSO coordination schemes
- (D3.1) a screening of ICT requirements to implement them

The newsletter also provides information on the project meeting in Helsinki (http://smartnet-project.eu/news/highlights-from-the-smartnet-meeting-in-helsinki/) and includes video interviews with the WP leaders and the stakeholders.

Furthermore, the newsletter promotes the SmartNet invited roundtable Innovation in Grid Services in Brussels (13 March 2017) (http://smartnet-project.eu/news/innovation-grid-services-round-table-brussels/) as well as the recording of the last online event organised in collaboration with the Florence School of Regulation (http://smartnet-project.eu/news/interactive-online-debate-tso-dso-coordination/)

Finally, the newsletter presents a series of 2 articles targeting both the specialised and general public:

- Where are we going?
- The Key is Flexibility

The articles are also available in the SmartNet blog available on the project webpage (http://smartnet-project.eu/blog/)

The newsletter was created and distributed using MailChimp. The target audience for the newsletter was of slightly less than 5,000 contacts (approximately 50 SmartNet Stakeholders, approximately 120 contacts of SmartNet Partners and EUI – FSR Energy List of approximately 4,700 contacts).

The newsletter is also available on the project homepage and will be shared with the project social media. The following parameters will be monitored: open rate, click rate, 24-hour performance, top links clicked. In other words, we will monitor users’ activity by seeing how many contacts received, opened, clicked on some links and which ones. The parameters will allow to monitor and compare all the newsletters among themselves.
Dear Readers,

The SmartNet project has now reached the first year of activities. Among the most important milestones of the first year, we can note the publication of:

- (Dr.1) on analysis of system services provided at ISO9001
- (Dr.2) on analysis of ISO14001 coordination scheme
- (Dr.3) a summary of ICT requirements to implement them

Additionally, market analyses were drafted along with aggregation models and models of the resources able to provide system flexibility. Relevant documents will be published in the next months. All of that provided a thorough specification for the simulation environment that is now under construction.

The first months have also seen a significant participation in dissemination events, such as the European Utility Week in Barcelona where a dedicated session was held on December and the T&D 2009 webinar sponsored by EUR.

Details on all the above can be found below in this newsletter. I hope you will enjoy reading it and encourage any feedbacks.

For more info on SmartNet, please visit the project website.

Best regards,
Graziella Mignano – SmartNet Project Coordinator
info@smartnet-project.eu / Graziella.Mignano@uni.wroc.pl

Video Highlights from Helsinki

The most recent physical meeting of the Advisory Board held during last project meeting, in Helsinki on 4th February was successful and paved the way to further cooperation. Read more

For the most relevant updates, watch the videos from the WP leaders

G. Mignano – Coordinator
A. Nogueira – SmartNet WP1
R. Hernandez – SmartNet WP2
M. Neri – SmartNet WP3
G. Mathian – SmartNet WP4

Learn news from the stakeholders’ perspective on the SmartNet Project

In the context of our project meeting in Helsinki, we asked some of the stakeholders to share their view on whether the results of the SmartNet project are still valid or if it is relevant today. Watch the videos

News & Events

Online debate: EU-US cooperation for electricity system balancing and congestion management

In January 2017 the SmartNet Project Coordinator, G. Mignano and M. Reza (Director, NAIE), took part in the online debate organized by the Finance School of Rhoatische. Recording is available

Coming soon!

Round table: On 15 March 2017 the SmartNet project will participate in the experts’ round table: Innovation in grid services: How can T&Ds and DSOs use consumer flexibility for grid management? Read more

SmartNet Blog

The Key to Flexibility

SmartNet partners at VTT discuss the companies that DSOs will have to interact in the coming decades and the essential role of system flexibility. Read the article

Where are we going?

Where are DSOs going? How will they face future challenges? What is the possible role and contribution of the SmartNet project? Read the article

Follow SmartNet Project on:

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The newsletter presents some of the most recent activities of the SmartNet Project:

1. Dissemination events
   - Experts Roundtable at DG Energy (Brussels), Workshop at AGORA Energiewende (Berlin), 9th Ancillary Services & Balancing Forum (Amsterdam), CIRED Conference (Glasgow) and PowerTech Conference (Manchester).

2. A SmartNet free online debate on Ancillary services from distribution: how to manage the revolution?

3. Two recent blog posts:
   - TSO-DSO coordination, market architectures and ICT for a changing energy world by Daan Six, Mario Dzamarija, Araz Ashouri, Seppo Horsmanheimo
   - The blurring distinction between electricity transmission and distribution systems by Gianluigi Migliavacca and Marco Rossi (RSE)

4. New deliverables in open access:
   - D2.3: Aggregation models: preliminary report
   - D2.4: Network and market models: preliminary report
   - D1.2: Characterisation of flexibility resources and distribution networks
   - D3.2: ICT architecture design specification

5. Smartnet on the Press: The SmartNet Project Coordinator talked with Science Impact
Dear readers,

During the past six months SmartNet has completed the specifications of the simulation environment as well as the data collection for the list of the three use cases to be simulated. Italy, Denmark and Spain.

The building of the simulation platform has started whilst the technological pilots are set to start exercise by September.

In 2017 SmartNet has joined many important dissemination events: EIBS Conference at EEE Energy (Brussels), Workshop at ASEA-Brown Boveri Devia, on Anders Sørensen & Alexander Puy of Energinet.

In June we participated in the DSSO Conference (Glasgow) and our project has been the object of a dedicated session at the PowerTech Excellence Plenary (Edinburgh) where the final results of the SmartNet Project will be presented.

In July 2017 we will be pleased to invite the European Stakeholders to join the web seminars which will be published on the SmartNet website.

We look forward to your feedback!

Gianniky Magistranti, SmartNet project coordinator

Online debate

Ancillary services from distribution: how to manage the revolution?

29 June 2017 7 pm CEST

Our team is pleased to participate in the online debate organized by the French School of Regulation.

Read more about the event

Register for the debate

Just published!

Ancillary Services from distribution: utopia or business case?

T&D-DSO coordination, market architectures and ICT for a changing energy world
by Dino Bas, Mário Gomes e, Anu Ashoir, Geso Monovanshi
Read the article

The blurring distinction between electricity transmission and distribution systems

 foliage energy and wind power generation (RE)

Read the article now

New Deliverables online!

D1.3: Appraised concepts, preliminary results
D1.4: Network and market models, preliminary report

D1.2: Characterization of flexibility resources and distribution networks

D1.1: ICT architecture design specification

SmartNet on the Press

The SmartNet Project Coordinator talked with Science Impact about the challenges involved in integrating renewable energy resources into Europe's existing electricity transmission network and how our project will support future innovation in this area.

Download the article

Read the full publication online

If you would like any additional information, please feel free to contact us at info@smartnetproject.eu.

The SmartNet Project team
5 Newsletter 4 – January 2018

The newsletter presents some of the most recent activities of the SmartNet Project:

1. Launch of the SmartNet video

2. Dissemination activities
   - SmartNet at Future Power Market workshop, SmartNet at Global Forum Electricity Ancillary Services & Balancing, SmartNet at the Pentalateral Forum, SmartNet at the European Utility Week SmartNet at the EDSO workshop: Rethinking distribution grids, SmartNet at ENTSO-E Internal Ancillary Services Conference

3. New blog posts:
   - Ancillary Services from Distribution: Utopia or Business Case? by G.Migliavacca, M.Rossi, D.Six, M. Dzamaria, A. Ashouri, S. Horsmanheiro, C. Madina, L. Ortolano, H. Madsen, M. Pardo and SmartNet interviews: a talk with the project leader, Gianluigi Migliavacca

4. New Publication in open-access:
   - Coordination between transmission and distribution system operators in the electricity sector: a conceptual framework H. Gerard, E. Puente, D. Six
   - Aggregation model for curtailable generation and sheddable loads H. Marthinsen, A. Z.Morch, M. Plećaš, I. Kockar, M. Dzamaria
   - SmartNet: A H2020 project analysing TSO-DSO interaction to enable ancillary services provision from distribution networks G. Migliavacca, M. Rossi, D. Six, M. Dzamaria, S. Horsmanheiro, C. Madina, I. Kockar, J. Morales
   - SmartNet: a new Horizon2020 project studying TSO-DSO interaction to acquire ancillary services from distribution networks G. Migliavacca
   - Coordination Schemes for the Integration of Transmission and Distribution System Operations A. Papavasiliou, I. Mezghani
   - Convex power flow models for scalable electricity market modelling F. Geth, R.D’Hulst, D. Van Hertem
   - Aggregation model for curtailable generation and sheddable loads H. Marthinsen, M. Plecas, M. Dzamaria

5. Presenting the next SmartNet Project Meeting in Glasgow on the 31 January 2018
Welcome to a smarter world...

Dear reader,

The Horizont2020 project SmartNet has entered its first year of activity and we would like to share this exciting journey with you.

Watch the new SmartNet videos

During the last six months, the simulation platform was completed and the first of the three scenarios, the new area, was simulated. However, we will be able to share the decision-making results for the Belgian SmartNet project shortly. We will present the results of the first run and discuss the preliminary cost-benefit analyses in the third scenario. In the same meeting, the progress made in the three research projects of all SmartNet partners will be discussed.

The Steering Board meeting is scheduled in Brussels on 9th February 2018. Are you interested? Please let us know.

In this newsletter, you will find the latest updates from the project, including recent publications and major contributions to the learning events in the ongoing activities. We hope that you enjoy the reading and we look forward to seeing many of you in Gent for our advisory board meeting.

Best regards,

Georgios Mihaljevic, SmartNet Project Coordinator

info@smartnet.eu

News & Events

SmartNet at Future Power Market workshop
On 11 January 2018, the SmartNet Project has been presented in front of several SmartNet partners in Brussels, leading to several new ideas.

SmartNet at Global Open Electricity Market Conference
On 16 November 2017, SmartNet attended the conference in Brussels to present the project.

Interested in our events? Find more on our website!

SmartNet at the Energies of Tomorrow 2017 Conference in Berlin to present the project.

Find all the presentations online.

Blog

Auxiliary Services from Distribution Upset to Business Case?
by D. Eggeling, P. Ebert, M. Strohmeier, N. Heintz, M. Jahnke, M. Mäurer, U. Schlichting

Read the original

Interesting article on the article in PDF.

SmartNet interviews

a site with the project leader: Georgios Mihaljevic

Read the interview

Publications

Find our papers in Open Access.


Read the original

Shorter version of the project summary. The full version is available on our website.

SmartNet Project Meeting in Glasgow
On 8 January 2018, the SmartNet project will convene in Glasgow to discuss the progress of the project and exchange ideas. More updates coming soon.

If you would like any additional information, please feel free to contact us at info@smartnet.eu.

SmartNet Project Coordination

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Visit the website to learn more about SmartNet:

www.smartnet.eu
The newsletter presents some of the most recent activities of the SmartNet Project:

1. Communication of the SmartNet Workshop Series in Florence
2. Dissemination activities:
   - SmartNet at IRED 2018
   - SmartNet at CIGRE - publications online!
3. Video interviews from the SmartNet Workshop in Brussels
   - TSO-DSO coordination schemes H. Gerard (VITO/EnergyVille)
   - Flexibility from thermal inertia H. Madsen (DTU)
   - Flexibility from radio base stations M. Pardo (Endesa)
   - What can we learn from SmartNet? G. Migliavacca (RSE)
4. Open Access Publications
   - Design and Simulation of Novel Demand Response Management Systems under Enhanced TSO-DSO Interaction M. Marroquin, C. Madina, M. Pardo
Dear Readers,

The SmartNet Project has now reached its first year of activities. Despite the difficulties faced with setting up a secure, stable and reliable environment and meeting the stringent requirements of the T2 submission of 2016 for Italy, Germany and Spain, we are happy to report that the project has been successful and that many of the objectives have been achieved.

Looking forward, we have been working on expanding the scope of the project to include other countries, such as France and the UK, and we are also planning to extend the project beyond the initial 12 months.

Best regards,

Domenico Maffione, SmartNet Project Coordinator

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**SmartNet Workshop Series in Florence**

The workshop series were a great success, and we look forward to the next one.

**SmartNet Workshop Series**

- **Day 1** for Utilities/Operators - Wednesday 24 October
- **Day 2** for Regulators - Thursday 25 October
- **Day 3** for Utilities and Operators - Friday 26 October

**Programme**

**Day 1 for Utilities/Operators**

- Overview of the SmartNet Project in general
- Introduction of the T2 system
- Analysis of the current status and challenges faced
- Discussion on the future development of the project

**Day 2 for Regulators**

- Review of the regulatory landscape in the European Union
- Analysis of the impact of the T2 system on the market
- Discussion on the regulatory challenges faced

**Day 3 for Utilities and Operators**

- Overview of the technical aspects of the T2 system
- Analysis of the operational challenges faced
- Discussion on the future development of the project

**Highlights from the SmartNet Workshop in Milan**

- Keynote speaker on the future of the T2 system
- Panel discussion on the challenges and opportunities

**Open Access Publications**

- SmartNet and Smart Metering: A Synergistic Approach
- SmartNet and Smart Grids: A Comprehensive Guide
- SmartNet and Smart Cities: A Sustainable Approach

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**Contact Information**

- [Domenico Maffione](mailto:domenico.maffione@smartnet-project.eu)

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The newsletter presents some of the most recent activities of the SmartNet Project:

1. Communication of the Final Project Meeting on 16 May 2019
2. Communication of an Online Debate with SmartNet: Looking for flexibility in the electricity sector: insights from two EU-funded projects
3. New Deliverables:
   - Deliverable 6.2: Evaluation on project results related to a number of models and roadmaps
   - Deliverable 4.4: Lab-environment set-up and simulations
   - Deliverable 2.2: Network and market models
4. Open Access Publications
   - Applying the Smart Grid Architecture Model for Designing and Validating System-of-Systems in the Power and Energy Domain: A European Perspective
   - A game-theoretic analysis of transmission-distribution system operator coordination
   - Energy in Europe: A SmartNet to boost the green revolution
Dear readers,

we are glad to invite you to our upcoming events and to inform you that new deliverables and publications are now available online.

Final Project Meeting on 16 May 2019
Hotel Concorde I Arona (Italy)

We look forward to welcoming the most important European stakeholders and discussing our final results with all the participants.

More info here | See the agenda

Register
Participation in the meeting is free of charge. However, registration is necessary.

Online debate | 12 April 11-12noon CEST

Looking for flexibility in the electricity sector: insights from two EU-funded projects

SmartNet will participate in the TSI online debate in collaboration with the Hertha0236 Domain. Read more

Moderated by:
Nicole Rosentoft (ISR)

Speakers:
- Giuseppe Lanzara (HREEE)
- Gianluigi Migliavacca (SmartNet project, I$AE)
- Christoph Weber (CIAMOS project)

Register here

New deliverables online!

- Deliverable 6.2: Evaluation on project results related to a number of models and tools
- Deliverable 4.4 Lab environment set up and simulations
- Deliverable 2.2: Network and market models

SmartNet News & Views

On 2 April in Stockholm, the SmartNet Project Coordinator, Gianluigi Migliavacca participated on the International Smart Grid Action Network. Read all the news

Latest publications

Aspirino the Smart Grid Architecture Model for Designing and Validating Smartgridvariants in the Power and Energy Domain: A Belgian Perspective

A genre-theoretic analysis of interconnection—distribution network smarter coordination

Energy in Europe: A SmartGrid to boost the green revolution
M. Migliavacca Open Access Government, October 2018

If you would like any additional information, please feel free to contact us at info@smartnet-project.eu

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