



D 10.3 – Scientific Communication Report WP10 – Dissemination and Exploitation

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EXECUTIVE SUMMARY

This Scientific Communication Report lists the various types of communication that the PARENT project consortium (VUB-IES, VUB-LSTS, BLP, UU, RES and SVT) has produced throughout the PARENT project's lifetime.

The types and numbers of publications produced are: five peer-reviewed articles, one book chapter, and three popular press / online communications.

Moreover, nine more academic articles based on project results are under preparation.

In addition, records of conference participation are included in this report (6x with paper; 9x with poster/presentation; 6x general participation), and educational material that was produced as a result of the project (at UU and UvA for Master programmes).

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List of Abbreviations

Abbreviation	Description
WP	Work Package
ENSCC	ERA-NET Cofund Smart Cities and Communities
Partner Abb.	Description
VUB-IES	Vrije Universiteit Brussel – Institute for European Studies
VUB-LSTS	Vrije Universiteit Brussel – Research Group on Law, Science, Technology & Society
BLP	Blue Planet AC
UU	Universiteit Utrecht
RES	Resourcefully
SVT	University of Bergen, Centre for the Study of the Sciences and the Humanities

1 Introduction

This report contains the various types of scientific communication that the researchers participating in the PARENT project have produced over time, as well as those that are still in the pipeline. More joint academic research by VUB-IES, UU and SVT remains to be done, and thus more scientific communications are to be created, by building on the project output. The types of communications included in this report are: peer-reviewed articles, popular press/online communication, conference participation (with paper/poster/presentation), general participation in ENSCC-related conferences (without paper/poster/presentation), and other (education).

In numbers, the output is as follows: nine produced (of which five peer reviewed articles, one book chapter, and three popular press / online communications) and nine forthcoming (of which nine academic articles) scientific communications. In terms of conference participations, there were six participations with a paper, nine with a poster or presentation, and six general participations without paper/poster/presentation. Moreover, UU produced one educational output, and one emerged as a result of collaboration between the VUB and the University of Amsterdam.

2 Scientific Communication

2.1 Peer-Reviewed Articles

- Sareen, S., & K. Rommetveit (2019). 'Smart gridlock? Challenging Hegemonic Framings of Mitigation Solutions and Scalability'. *Environmental Research Letters*. Forthcoming in Special Issue on: Systematizing and upscaling urban solutions for climate change mitigation. <https://doi.org/10.1088/1748-9326/ab21e6>
- Terlouw, T., T. AlSkaif, C. Bauer & W. van Sark (2019). 'Multi-objective optimization of energy arbitrage in community energy storage systems using different battery technologies'. *Applied Energy*, 239, 356-372. <https://doi.org/10.1016/j.apenergy.2019.01.227>
- AlSkaif, T., I. Lampropoulos, M. van den Broek & W. van Sark (2018). 'Gamification-Based Framework for Engagement of Residential Customers in Energy Applications'. *Energy Research & Social Science* 44, 187-195. <https://doi.org/10.1016/j.erss.2018.04.043>
- van der Stelt, S., T. AlSkaif & W. van Sark (2018). 'Techno-Economic Analysis of Household and Community Energy Storage for Residential Prosumers with Smart Appliances.' *Applied Energy* 209, 266-276. <https://doi.org/10.1016/j.apenergy.2017.10.096>
- AlSkaif, T., W. Schram, W. Litjens & W. van Sark (2017). 'Smart Charging of Community Storage Units Using Markov Chains'. *IEE ISGT Europe 2018*. Torino, 26-29 September 2017. <https://doi.org/10.1109/ISGTEurope.2017.8260177>

Under preparation:

- Terlouw, T., T. AlSkaif, C. Bauer & W. van Sark. 'Optimal Energy Management in All-Electric Residential Energy Systems with Heat and Electricity Storage', submitted in January 2019 to *Applied Energy* (under review second round R2).
- AlSkaif, T., S. Dev, L. Visser, M. Hossari & W. van Sark. 'A Systematic Analysis of Meteorological Variables for PV Output Power Estimation', to be submitted in July 2019 to *Solar Energy*.
- Schram, W., T. AlSkaif, I. Lampropoulos & W. van Sark. 'On the Trade-Off Between Environmental and Economic Objectives in Community Energy Storage Scheduling', to be submitted in July 2019 to *IEEE Transactions on Sustainable Energy*.
- Rommetveit, K., I. Foss Ballo, & S. Sareen. 'To Participate or To Automate? Regimes of Justification in Living Lab Articulations of Possible Smart Energy Futures', for a special issue on 'Extractions' of *Science, Technology and Human Values*.
- Rommetveit, K. & I. Foss Ballo. 'Making Sense of Sensing Homes: Reimagining the Role of the 'Smart' Home and 'Smart' Citizens in Urban Energy Imaginaries'.
- Sareen, S. 'Smart Meters: Academic Efforts to Democratise Energy Systems at their Automation Moment'.
- Meyer, T., J. Shahin, O. Söebech, T. AlSkaif, K. Rommetveit & S. Sareen. 'Running European Pilots. The Importance of Local Embeddedness', on the basis of PARENT D.7.5 Joint pilots and living labs evaluation report.
- Söebech, O., T. Meyer & J. Shahin, J. 'Keeping It Real. Inciting Behavioral Change through Energy Monitoring', on the basis of PARENT D6.2-5 Pilot reports and IAMCR 2018 conference paper.
- AlSkaif, T., O. Söebech, T. Meyer & S. Sareen. Comparing prosumers in Amsterdam, Brussels and Bergen, on the basis of PARENT prosumer data.

2.2 Book Chapters

- Lampropoulos, I., T. AlSkaif, M. van den Broek, W. van Sark & H. van Oostendorp (2019). A Method for Developing a Game-Enhanced Tool Targeting Consumer Engagement in Demand Response Mechanisms. In: *Mediterranean Cities and Island Communities* (pp. 213-235). Springer, Cham.

2.3 Popular Press / Online Communication

- Choudhury, S. in conversation with J. Shahin, 'Technology Won't Save Us, Well Not Without a Human Touch', JPI Urban Europe Blog, <https://jpi-urbaneurope.eu/technology-wont-save-us-well-not-without-a-human-touch/>, 25 April 2019.
- Kloza, D., N. Van Dijk, R.M. Gellert, I.M. Böröcz, A. Tanas, E. Mantovani & P. Quinn (2017). Data Protection Impact Assessments in the European Union: Complementing the New Legal Framework Towards a More Robust Protection of Individuals.

d.pia.lab Policy Brief 1/2017.

https://cris.vub.be/files/32009890/dpialab_pb2017_1_final.pdf

- Kloza, D., N. Van Dijk, R.M. Gellert, I.M. Böröcz, A. Tanas, E. Mantovani & P. Quinn (2017). Analyse d'Impact relative à la Protection des Données dans l'Union Européenne : Une Protection des Personnes plus Solide en Complétant le Nouveau Cadre Juridique. *d.pia.lab Note de Politique N° 1/2017.*

https://cris.vub.be/files/37820556/dpialab_pb2017_1_final_FR.pdf

2.4 Conference Participation

2.4.1 Papers

- T. AlSkaif, S. Dev, L. Visser, M. Hossari and W. van Sark (2019). 'On the Interdependence and Importance of Meteorological Variables for Photovoltaic Output Power Estimation', Accepted for publication at the 46TH IEEE Photovoltaic Specialist Conference (PVSC 46), June 16-21, 2019, Chicago, IL, USA.
- S. Dev, T. AlSkaif, M. Hossari, R. Godina, A. Louwen and W. van Sark (2018). 'Solar Irradiance Forecasting Using Triple Exponential Smoothing', IEEE Smart Energy Systems and Technologies (SEST), Seville, Spain, September 2018.
- Foss Ballo, I., & Rommetveit, K. (2018). 'The Sensing Home: Citizen Engagement with Sensing Energy Infrastructures.' *4S: TRANSnational STS*. Sydney, Australia, 29 August – 1 September 2018.
- Shahin, J. & I. Niet (2018). 'The Power of Non-State Actors in the Renewable Energy Transition.' *POLLEN Workshop, Facultés Universitaires Saint Louis*. Brussels, Belgium, 25-26 June 2018.
- Meyer, T., O. Söbech & J. Shahin (2018). 'Keeping It Real. Lessons on Implementing Sustainable Consumption Policy at a Local Level.' *IAMCR 2018: Reimagining Sustainability: Communication and Media Research in a Changing World*. Eugene, USA, 20-24 June 2018.
- Foss Ballo, I. & K. Rommetveit (2018). 'The Sensing Household: Citizen Engagement with Sensing Energy Infrastructures.' *AAG 2018: Geographies of Urban Automation*. New Orleans, USA, 10-14 April 2018.

2.4.2 Posters and Presentations

- Söbech, O. (2019). Presentation on PARENT project and behavioural change. Day of Change: Towards the Sustainable Behaviours That Really Matter. Academy of change, an initiative of the Collaborating Centre on Sustainable Consumption and Production (CSCP) and Behaviour Change, funded by the KR Foundation, Brussels, Belgium, 1 July 2019.
- Shahin, J. & T. Meyer (2019). 'PARENT Project.' Presentation at *JPI Urban Europe Conference: ERA NET Smart Cities and Communities Final event*. Vienna, Austria, 2 April 2019.
- AlSkaif, T., S. Dev, L. Visser, M. Hossari & W. van Sark (2018). 'On the Analysis and Evaluation of Meteorological Variables for Photovoltaic Output Power'. Presentation at *ACOS 2018 - Applied Computational Science symposium*. DIFFER research center,

Eindhoven, the Netherlands, October 2018.

- Sarma, P. (2017). 'Lessons from PARENT Project: Approaches to Data Protection in Cross-Disciplinary Research Projects'. Presentation at *15th Annual International Cyber Space Conference 2017*. Brno, Czech Republic, 24-25 November 2017.
- Niesing, H. (2017). 'Towards a Renewable, Independent, Flexible Neighbourhood in Amsterdam.' Presentation at *FLEXCON 2017*. Amsterdam, the Netherlands, 20 November 2017.
- Niesing, H., C. Varela Martín, T. AlSkaif, T., W. van Sark & A. van der Giessen (2017). 'Borneoeiland Prosumer Community: Towards More Energy Independent Neighbourhoods in Amsterdam.' Poster at *EU PVSEC 2017*. Amsterdam, the Netherlands, 25-29 September 2017.
- Shahin, J. & T. Meyer (2017). 'PARENT Project.' Poster at *JPI Urban Europe Conference: Engaging for Impact: The Next Step in Urban Transition*. Brussels, Belgium, 29-30 May 2017.
- AlSkaif, T. (2017). 'PARENT Project Amsterdam Pilot: Towards an Energy Independent Prosumers Community.' Presentation at *2nd V2G International Conference*. Amsterdam, the Netherlands, 11-12 May 2017.
- AlSkaif, T., I. Lampropoulos, O. Söbech, M.A. van den Broek & W. van Sark (2017). 'Gamification to Engage Citizens in the Use of Smart Metering Systems.' Poster at *ERSS (Energy Research and Social Science) International Conference 2017*. Sitges, Spain, 2-5 April 2017.
- Shahin, J. (2016). 'PARENT Project.' Poster at *JPI Urban Europe Projects Meeting*. Amsterdam, the Netherlands, 14 April 2016.

2.5 General Participation/Invited panel discussions in ENSCC-Related Conferences (without paper/poster/presentation)

- Meyer, T. (2019). Participation in EU Energy-Shifts workshop 'Use of Evidence in Energy Policy: The Roles, Capacities and Expectations of Social Sciences & Humanities'. Brussels, Belgium, 18 June 2019.
 - Shahin, J. (2019). Participation in a panel discussion at the *JPI Urban Europe Conference: ERA NET Smart Cities and Communities Final event*. Vienna, Austria, 2 April 2019
 - Shahin, J. (2019). Participation in a panel discussion: 'Plenary Session II: Future Research Priorities for the Knowledge Hub' at *JPI Urban Europe Conference: Urban Transitioning, A Joint Adventure*. Brussels, Belgium, 12 February 2019.
 - Meyer, T. (2018). Participation in *JPI Urban Europe 'Urban Transitions Pathways Symposium 2018*. Prague, Czech Republic, 3-4 October 2018.
 - Söbech, Ó. (2018). Participation in Sustainable Living & Energy: towards a PEOPLE perspective. Vrije Universiteit Amsterdam, 5 July 2018.
 - Niesing, H. (2018). Co-organisation of event 'Europe's Urban Energy-Mobility Transition. Demonstration, Upscaling & Uptake in City-Planning, How to Achieve Adequate Policy Measures and Large-Scale Implementation' during *EU Sustainable Energy Week*. Brussels, Belgium, 5 June 2018.
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- Shahin, J. & T. Meyer (2018). Participation in *Smarticipate Workshop* 'Are You Making The Most of How Smart Your Citizens Are?'. Brussels, Belgium, 29 May 2018.

2.6 Other (Education)

- Bhargava, R., N. Bijlsma, C. Freutel, H. Hortes, T. Mandel & V. Nakic (2017). 'Promoting Residential Photovoltaic Adoption & Self-Consumption on Borneo-eiland, Amsterdam.' *Case Study (November 2017) within Master on Sustainable Development / Water Science and Management*. Utrecht University, Utrecht, the Netherlands. [Thesis supervised by T. Al-Skaif]
- Duin, L. (2017). 'The power of policy transfer in the European Union: exchanging knowledge on urban household energy consumption.' *MA Thesis European Studies*. University of Amsterdam, Amsterdam, the Netherlands. [Thesis supervised by J. Shahin]