Smart Grid Research Data PANTERA Nano-Workshop

When: 22 February 2021
14:00-15:30 GMT
Where: Online (Zoom)

Register now →

Join us to learn how to share research data, ensure GDPR compliance, reduce the risk of divulging potential innovation insights, and related issues.

Secure your place by scanning the above QR code or via the following link: https://pantera-platform.eventbrite.com

Objectives of the workshop:

This webinar, in the form of a nano-workshop, addresses the theme of Smart Grid Research Data - how to share research data, ensure GDPR compliance, reduce the risk of divulging potential innovation insights, and related issues. The webinar focuses on "*how different stakeholders such as governments, industry and local energy communities can share and organise their data respecting the privacy of users and citizens*".

The webinar is a part of the workshops and events of PANTERA project, which is a pan-European project aimed at setting up a forum composed of Research & Innovation stakeholders active in the fields of smart grids, including policymakers, standardisation bodies, and experts to remove the technical and policy-related barriers on the effective energy transition.

In collaboration with other platforms, PANTERA project aims to identify and address barriers and thus, support smart grid research and innovation in the EU. Research data sharing plays an important role in promoting these collaborations. This webinar aims to develop an understanding of how to access and share smart grid research data.

On the agenda:

1. Introduction (Facilitator **Dr. Paula Carroll, UCD Energy Institute**)
2. **Prof Eleni Mangina, UCD Energy Institute**, "*Why Machine Learning Needs data to unlock the potential of Smart Grids.*"
3. **Jim Scheer, Sustainable Energy Authority of Ireland**, "*Unlocking energy data to achieve decarbonisation targets.*" Experiences of accessing Smart Meter Data, case study of gas and electricity data usage, based on an example of 200 homes.

4. **Dr. Stephen Donoghue, UCD**, "*Commercial and Legal Difficulties for Data Sharing in Energy Markets*"–Legal Aspects and Challenges; tips and advice; collaboration agreements
5. **Dr. Venizelos Efthymiou, FOSS**, *"PANTERA opportunities for data sharing via EIRIE platform".*
6. Open Discussion - Next Steps.

More about the speakers:
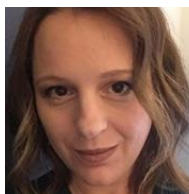
Prof Eleni Mangina is a professor is the School of Computer Science, University College Dublin, Ireland. Elini carried out her PhD work at the University of Strathclyde (UK), Department of Electronic and Electrical Engineering, working on Agent-based applications for intelligent data interpretation. Her lab operates at the intersection between applied Artificial Intelligence (VR/AR; Data Analytics; UAVs; Information Systems) and a portfolio development within interdisciplinary applications (i.e. Engineering [Energy Sector] and Educational Systems.

Jim Scheer has over 18 years' experience working in the field of policy analysis and development related to environmental issues. He joined SEAI in 2007 and is currently Head of Department (Data and Insights) responsible for energy statistics, modelling, behavioural economics, and finance at SEAI. He holds a Professional Diploma in Advanced Management Performance (Smurfit Business School), MSc. Economic Policy Studies (Trinity College Dublin), BSc. Environmental Science (Flinders University, South Australia). Jim is passionate about getting people connected to the need for climate action now.
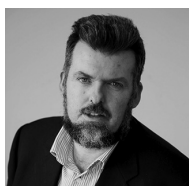
Dr Stephen Donoghue is the UCD Research and Innovation Case Manager. Stephen is responsible for managing the identification, protection and commercialisation of University College Dublin research outputs within the environment area. He has a background in biotechnology, software and law and has significant experience in managing and transacting data.

Dr Venizelos Efthymiou worked for Electricity Authority through various posts including Executive Manager Networks / Distribution System Operator of Cyprus from 1979 to 2013. He is currently serving the Steering Committee of ETIP SNET, ETIP PV, SET Plan and Horizon 2020 Programme Committee. He is the Chairman of FOSS Research Centre for sustainable energy of the University of Cyprus and Cigre Cyprus.

Abstract:

Cities are central to a worldwide climate action plan and the implementation of net-zero development strategies [2] Developing smart cities is an important part of the solution for a sustainable future of our society. Smart cities also provide energy flexibility, storage, and energy generation capabilities, either as infrastructure (e.g., building envelopes, thermal storage, batteries, electric vehicles) or by means of the associated energy systems (e.g., heat pumps, boilers, cogeneration, renewables).

To achieve the necessary transition to a low carbon economy in cities, it is essential to increase energy systems integration and to push efficiency performance levels significantly beyond current limits by 2050. Such an ambitious object can be achieved only if more stakeholders can share their private usage datasets without violating privacy rights. It is therefore paramount to be acquainted with anonymization data processes and the terms of the EU GDPR. Participants at the PANTERA Dublin workshop identified a gap in the availability of appropriate data to build and test smart grid product prototypes in such a context, we are aiming to organise an open forum for smart grid stakeholders such as citizens, government, industry, and academia to facilitate data sharing and data processing techniques. This series of PANTERA nano-workshops will directly focus on how different stakeholders such as governments, industry, and local energy communities can share and organise their data respecting the privacy of users and citizens. The workshops will also provide a forum to explore opportunities among stakeholders to develop new data-driven solutions for sustainable smart cities and communities. Four different areas have been identified as pivotal for the smart grid open data community: (i) community data, (ii) energy-efficient and smart-ready buildings data, (iii) local production from RES, (iv) infrastructure, finance, and enabling policy-related data.

Having a shared data platform is a paramount step to tackle the enormous number of multisectoral and multidisciplinary challenges we need to face to achieve the target of a more sustainable future society. The nano-workshop will provide a forum where industry, universities, citizens can foster collaborations and organise new projects and prepare data sharing pipeline, and address the role the PANTERA platform could play as a portal to or server for identified data streams.

[1] Report of the Secretary-general on the 2019 Climate Action Summit - the Way Forward in 2020 – December 2019 - Accessed 03/2020 - https://www.un.org/en/climatechange/assets/pdf/cas_report_11_dec.pdf

[2] Rizzo, Francesca, ed. Human smart cities: rethinking the interplay between design and planning. Springer, 2016.

More about PANTERA: https://pantera-platform.eu/

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