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Online Workshop: NILM for demand response – solutions for the energy crisis

11 May, 2023 | 15h CEST | Online

**How are non-intrusive load monitoring and load
disaggregation enabling demand response? Does it have a
role to play in the energy crisis?**

Welcome!

Topics include:

- **Trustworthy NILM**
- **Using the smart meter customer interface**
- **Advances in NILM privacy and security**
- **NILM in practice: lessons from GIASES pilot project**
- **Transferability and NILM**

Including interactive panel Q&A session

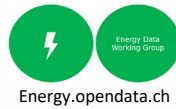
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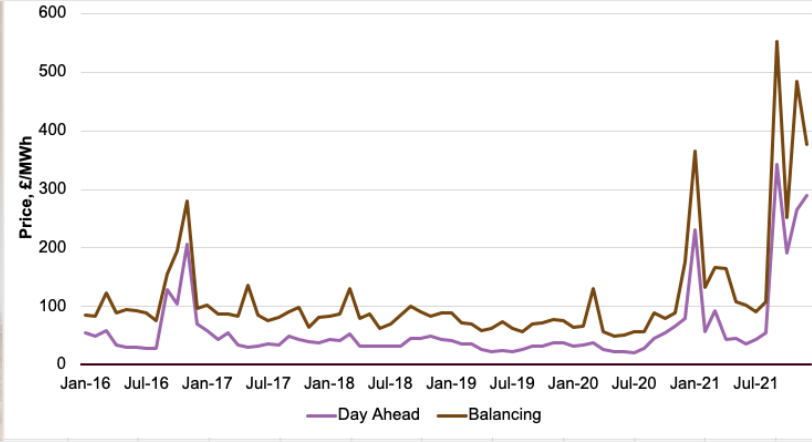
Ben Bowler
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Context



Electrification for net zero is accelerating

Price volatility create challenges and opportunities

(energy-storage.news, 03/2022)

Operating the energy system increasingly complex

Context



Copper-based solutions are
unaffordable



AMI is not yet fully
exploited

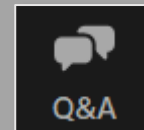


Even partial insights into
energy use are useful

Agenda

- ▶ 15:00-15:10 Introduction from the Chair
- ▶ 15:10-15:40 Session 1: Keynote – Trustworthy NILM (Dr Lina Stankovic, Professor, University of Strathclyde)
- ▶ 15:40-16:10 Session 2: The smart meter customer information interface: challenges, experiences and opportunities for NILM applications (Hermann Hüni, CEO gPlug)
- ▶ 16:10-16:40 Session 3: Advances in privacy and security for NILM (Colin Gounden, CEO VIA Science AG / Skylight Connect)
- ▶ 16:40-17:10 Session 4: In practice: the GIASES project (Guido Kniesel HSLU, Thomas Gall, CEO ASGAL Informatik GmbH)
- ▶ 17:10 – 17:25 Session 5: Transferability & NILM: a review. Christoph Klemenjak, HSLU
- ▶ 17:25 – 17:50 Session 6: Interactive audience and panel Q&A

Pose your questions using the Q&A button



Questions will be posed to speakers during the panel session, and discussed between panellists

The session today will be recorded

IEEE and Power and Energy Society

- IEEE (Institute of Electrical and Electronics Engineers) is the world's largest technical professional organization for the advancement of technology.
- Global community with 423,000 members in over 160 countries
- IEEE Power and Energy Society (PES) is a professional network within IEEE, focused on power and energy topics
- Benefits:
 - Technical expertise
 - Professional development
 - Networking
 - Knowledge exchange
- Opportunities:
 - Speaking at events
 - Organising events
 - Feedback and ideas



Switzerland Chapter

<https://pes.ieee.ch>



UK and Ireland Chapter

<https://www.ieee-ukandireland.org>

Supporter – Energy Data Working Group

<https://energy.opendata.ch/>



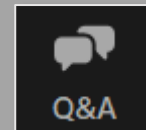
- ▶ A Swiss-based group of energy and data experts and enthusiasts
- ▶ Strive to facilitate data usage for realizing sustainable energy systems.
- ▶ Hub to connect stakeholders and facilitate data and models to solve problems and create value.

- ▶ Networking, events, hackathons, collaboration
- ▶ Promoting the exchange of structured, machine-readable energy data between stakeholders: standards, templates, best-practices and examples

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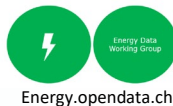
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Panel discussion

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event!

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PES Distinguished Lecture | Grid Modernisation and Smart Distribution Systems

May 26 - 4:00 pm - 5:00 pm

PES Distinguished Lecture | Grid Modernisation and
Smart Distribution Systems by Dr Julio Romero
Agüero, PhD, SMIEE, Distinguished Lecturer

Details

Date:

May 26

Time:

4:00 pm - 5:00 pm BST

Event Categories:

Power and Energy, Student Branch

Website:

<https://www.eventbrite.co.uk/e/dlp-seminar-grid-modernization-and-smart-distribution-systems-tickets-628162459827>