

# Joint Workshop on Smart Systems Integration in Energy Applications

of

the European Technology Platform on Smart Systems Integration (EPoSS)

and the Pôle S2E2

at

**24<sup>th</sup> to 25<sup>th</sup> May 2022 in Tours (France)**

## **PARTIES**

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- **EPoSS e.V.** is an Industry Association on Smart Systems Integration, based in Berlin (Germany) and established in 2013 (<https://www.smart-systems-integration.org>). The European Technology Platform on Smart Systems Integration (EPoSS), is an industry-driven policy initiative, defining R&D and innovation needs as well as policy requirements related to Smart Systems Integration and integrated Micro- and Nanosystems. EPoSS brings together European private and public stakeholders in order to coordinate and to bundle efforts and to set-up sustainable structures for improving the competitiveness of European R&D on Smart Systems Technologies and their integration.
- **S2E2**, is a Competitiveness Cluster based in Tours (France) specialized in energy management (<https://www.s2e2.fr/>). It supports 250 members in the development of their business, from innovation, through technical training, innovation marketing advice, to the marketing of innovative products and services.

Its expertise covers four Strategic Business Units, at the heart of energy management:

- Intelligent electricity grids.
- Smart buildings.
- Electrical systems for mobility.
- Materials and components for electronics.

## WORKSHOP GOALS

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S2E2 and EPoSS seek to establish a strategic cooperation in the field of smart systems integration in energy applications. This Workshop shall be the initial joint activity to bring together technical experts from both communities. The aim of this workshop is to:

- **exchange knowledge** about both organizations and their members.
- **spark ideas** for innovations and projects.
- **enable cooperation** in future R&D projects.

## AGENDA

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### Day 1

12:00 Registration and light lunch

13:00 Welcoming Remarks (Thomas Hammer/ Stéphane Martinez)

13:05 Introductory Presentation on EPoSS (Elisabeth Steimetz)

13:15 Introductory Presentation on S2E2 (Aniss Hadji)

13:25 Explanation of the Agenda (Stefan Wolf)

13:35 Site Visit CERTeM / ST Microelectronics' showroom

15:35 Keynotes

**Topic 1:** SiC and GaN address energy-efficient applications for a carbon-free world (Filippo Di Giovanni, Strategic Marketing Manager, STMicroelectronics)

**Topic 2:** Capabilities of Smart Systems Integration (Wolfgang Dettmann, Vice President R&D Funding, Infineon Technologies)

**Topic 3:** Energy efficiency and environmental impact (Patrick Blouet, EPoSS Green ECS task force)

**Topic 4:** Policy perspective and upcoming Horizon Europe Energy Calls (Aniss Hadji, S2E2)

Q&A Podium

17:00 Matchmaking - five 1to1 meetings á 10 min between Members

19:00 Evening Reception

### Day 2

9:00 Welcome, Wrap-up of the first day and Explanation of the Agenda (Stefan Wolf)

9:05 Presentation of the ECS SRIA - Electronic Components and Systems Strategic Research and Innovation Agenda (Antonio Imbruglia)

9:20 Interactive Workshop Session I: Identification of R&D&I challenges for smart systems integration for energy applications and exploration of market needs.

- What are the jobs that need to be done?
- Who needs to do these jobs and what is their situation?
- What are the pains and gains associated with these jobs?

Work in mixed groups on topics relevant to European funding like ...

- Smart system for energy efficiency and smarter buildings
- Integrated wind farm control
- Embedding smart functionalities into battery cells
- Digital solutions for retrofitting hydropower operations and maintenance
- Autonomous systems for infrastructure protection
- Recovering surrounding energy, converting it and storing it
- Development of new materials, from design to manufacturing and characterization, for alternative energies

... or other topics suggested by workshop participants.

Presentation of results: Description of challenges and customer personas.

10:50 Coffee Break

11:00 Presentation of the EnABLES project on IoT and energy applications by James Rohan from Tyndall National Institute

11:15 Interactive Workshop Session II: Value proposition of smart system solutions for energy applications.

Work in mixed groups to elaborate the advantages of smart systems integration for the challenges identified in workshop session I.

- How do integrated smart systems solve the selected challenge?
- How do they relieve customer pains?
- How do they create customer gains?

Presentation of results: Description of the value proposition of integrated smart systems that builds a profound basis for future joint R&D&I projects.

12:45 Wrap-up of the event and closing remarks

13:00 Farewell lunch

14:00 End of the event