

Agenda

Joint EMB3Rs and R-ACES Stakeholders Workshop

Get to know EMB3Rs' Heat and Cold matching platform
and R-ACES' Energy Management Platform

29 March 2023



These projects have received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N°847121 (EMB3RS) and 892429 (R-ACES).

Get to know the EMB3RS Heat and Cold matching platform and the R-ACES Energy Management Platform (and how it can service you)

29 March 2023

Objectives of the workshop

This is a Stakeholder Workshop for the R-ACES and EMB3RS projects. It aims for the projects' stakeholders (i.e. industry and trade associations, energy companies, energy management companies, energy authorities, public bodies, associations of consumers and more) to get to know the respective platforms and understand how it may aid them in e.g. setting goals or creating business cases. Interaction and hands-on experience are a key component of the workshop.

Context

EMB3RS

16 companies and institutes from across Europe have joined forces as part of the EU-funded project EMB3Rs to add value to waste heat and help make better use of renewable energy sources. A **novel tool, the EMB3Rs platform**, allows energy-intensive industries and other excess heat and cold sources to explore ways of reusing their excess thermal energy. This will improve their energy performance and contribute to a healthier future for everyone.

Users, like industries that produce excess heat and cold, provide the essential parameters, such as their location and the available excess thermal energy. **The EMB3Rs platform will then autonomously and intuitively assess the feasibility of new business scenarios and identify technical solutions for industry to reuse and sell the excess thermal energy.** End users such as energy communities will be able to determine the costs and benefits of industrial excess heat and cold utilisation routes and define the requirements for implementing the most promising solutions. Matching excess heat providers with end-users will enable win-win partnerships and offset GHG emissions in accordance with National Energy and Climate Plans.

R-ACES

The vision of the R-ACES project is to support high-potential industrial parks and clusters to become ecoregions that reduce their CO₂ emissions by at least 10%. This is done by establishing an energy cooperation for exchanging surplus energy, making extensive use of renewables, and bringing everything together with so-called smart energy management systems.

In order to achieve this purpose, R-ACES developed three practical tools to support the entire process of organising an ecoregion and the energy collaboration inside this region. The tools



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incorporate existing knowledge and conform to the needs of stakeholders in industrial clusters supporting them during the implementation of their energy collaboration project.

One of these tools is the Energy Management Platform (EMP). The EMP is an ICT-tool that makes energy flows transparent, allows energy consumption and production to be allocated to specific installations, stakeholders and nodes, and also identifies anomalies and opportunities. When starting concrete energy cooperation projects, this analytical tool provides answers to three main questions:

1. How much energy is available?
2. When is this energy available?
3. Which parties are involved?

The R-ACES Energy Management Platform helps answering these questions as it is an online tool based on graphical dashboards. It can be used by any person of any technical background.

Format

The workshop will be held **in-person** (or online) for a full day. It will be highly interactive, with most of the time dedicated to hands-on experience.

After an initial presentation of the platforms, its philosophy, its components and its use, the participants will be split into two groups for the first hands on session of two hours and 30 minutes. The participants will have a chance to use an online version of one platform with their laptops and get an initial grasp of its features and potential. They will be guided in creating a simple case, with step-by-step instructions and pre-defined inputs.

This will be followed by an hour's break for lunch. In the afternoon we will have the second hands on session of two hours and 30 minutes. The groups will be switched, and the participants will have the opportunity to test the other platform.

During the hands-on experience, the participants will interact with project partners in a Q&A and Try session, where they will have a chance to clarify doubts and investigate more functionalities.

Hardware & software requirements

For an in-person workshop, participants are asked to bring laptops. The platform performs best on Google Chrome or Firefox browsers.

For an online workshop, we will have it through Zoom.



Agenda for in-person workshop

Wednesday 29 March 2023 - Venue: to be confirmed

9:00 – 9:10 (CEST)	Start registration and welcome coffee! (KTH and INEGI and R-ACES?)
9:10 – 9:20	Introduction to the Workshop (KTH)
9:20 – 9:35	Presentation EMB3Rs platform – (All MDs and PDM)
9:35 – 9:50	Presentation R-ACES Energy Management Platform – Jereon van der Meer /Xavier de Moor (Condugo)
9:50 – 10:00	Splitting participants for two parallel workshop session testing EMB3Rs and R-ACES platforms
10:00 – 12:45	Guided hands-on experience in parallel sessions (coffee served for leg-stretchers), with Q&A and Try and feedback
12:45 – 13:50	Lunch
13:50 – 14:00	Splitting participants for 2nd parallel workshop sessions
14:00 – 16:45	Guided hands-on experience in parallel sessions (coffee served for leg-stretchers), with Q&A and Try and feedback
16:50 – 17:00	Wrap-up and closure



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Agenda for online workshop

Wednesday 29 March 2023 - Venue: online

10:00 – 10:10 (CEST)	Welcome coffee! (KTH and INEGI and R-ACES?)
10:10 – 10:20	Introduction to the Workshop (KTH)
10:20 – 10:35	Presentation of EMB3Rs platform – (All MDs and PDM)
10:35 – 10:50	Presentation of R-ACES Energy Management Platform – Jereon van der Meer /Xavier de Moor (Conduco)
10:50 – 11:00	Splitting participants for two parallel workshop session testing EMB3Rs and R-ACES platforms
11:00 – 11:30	Guided hands-on experience in parallel sessions (coffee served for leg-stretchers), with Q&A and Try and feedback
13:30 – 14:15	Lunch
14:15 – 14:25	Splitting participants for 2nd parallel workshop sessions
14:25 – 16:55	Guided hands-on experience in parallel sessions (coffee served for leg-stretchers), with Q&A and Try and feedback
16:55 – 17:00	Wrap-up and closure

Meeting Link: To be sent closer to date



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