

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 an online workshop focused on showcasing and building capacity in two innovative tools developed under the scope of two European projects: EMB3Rs and R-ACES. It aims for the projects' stakeholders (i.e., industry and trade associations, energy management companies, energy authorities, public bodies, associations of consumers and more) to get to know the respective platforms and understand how these tools can support them in their own work and tasks e.g., setting goals or creating business cases for waste heat recovery. Interaction and hands-on experience are a key component of the workshop.

Context

The EMB3Rs (User-driven Energy-Matching & Business prospection tool for industrial Excess heat/cold Reduction, Recovery and Redistribution) project

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 essential parameters, such as their location and the available excess thermal energy. **The EMB3Rs platform** autonomously and intuitively **assesses the feasibility** of new business scenarios and **identifies 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 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 (FRamework for Actual Cooperation on Energy on Sites and Parks)

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 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 from 10:00 to 17:00 hours CET. It will be highly interactive, with most of the time dedicated to hands-on experience.

After an initial presentation of the platforms, their philosophies, their components and their uses. The remainder of the morning session will be dedicated to illustrating how to use the EMB3Rs tool. 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.

After lunch, the second hands-on session will be dedicated to getting to know the R-ACES Energy Management 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.



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Wednesday, 29 March 2023

Online

10:00 – 10:05 (CEST)	Welcome! (INEGI)
10:05 – 10:15	Introduction to the Workshop (KTH)
10:15 – 10:30	Presentation EMB3Rs platform – (EMB3Rs platform modules developers)
10:30 – 10:45	Presentation R-ACES Energy Management Platform – Jereon van der Meer / Xavier de Moor (Condugo)
10:45 – 13:15	Testing the EMB3Rs heat and cold matching platform: Guided hands-on experience, with Q&A and Try & Feedback
13:15 – 14:15	Lunch
14:15 – 16:45	Testing the R-ACES tools: Guided hands-on experience, with Q&A and Try and Feedback
16:45 – 17:00	Wrap-up and closure

Hardware & software requirements

The platform performs best on Google Chrome or Firefox browsers.



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