



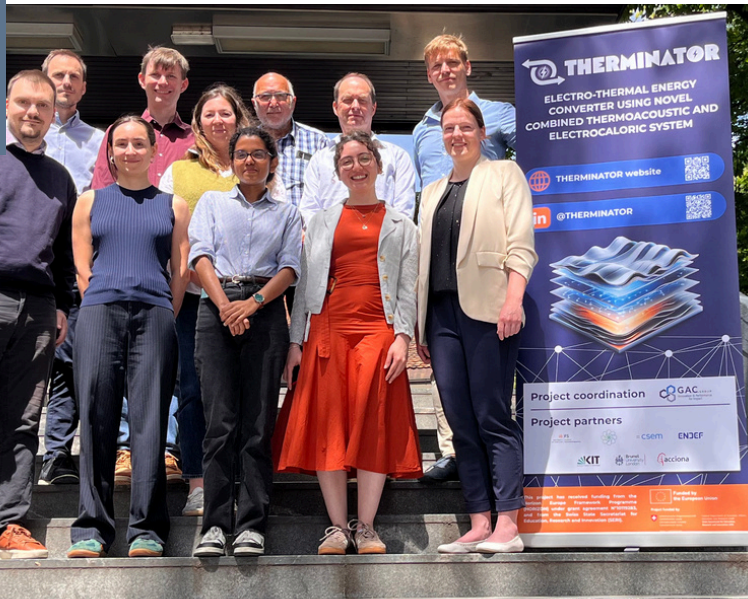
THERMINATOR

JUNE 2026

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NEWSLETTER #3



Third consortium meeting in Ljubljana

The THERMINATOR consortium held its 3rd meeting on **4-5 June 2026** in Slovenia, hosted by the **University of Ljubljana**.

Partners reviewed project progress, exchanged technical updates on electrocaloric and thermoacoustic technologies, and aligned on integration, testing, and upcoming milestones.

The meeting strengthened coordination across the consortium as the project advances toward its next phase.

THERMINATOR contributions at THERMAG XI

THERMINATOR partners contributed to the scientific programme of the **IIR THERMAG XI Conference 2026** in Ljubljana, Slovenia, a leading international forum on solid-state cooling, heating, and energy conversion technologies.

Three papers were presented showcasing recent advances across the consortium: **"Modeling of Thermoacoustic Systems in TCCBuilder"**, by Izak Oberčkal Pluško, **"Active Electrocaloric Regenerator Modelling and Validation"**, by Grega Belšak and **"SCOUT: Surrogate-Guided Optimisation for Thermal Energy Conversion"** by Ahmed Teyeb.

These contributions highlight ongoing progress in **modelling, validation, and optimisation methods** within THERMINATOR.

Links to the three papers will be included in the next edition of the newsletter.

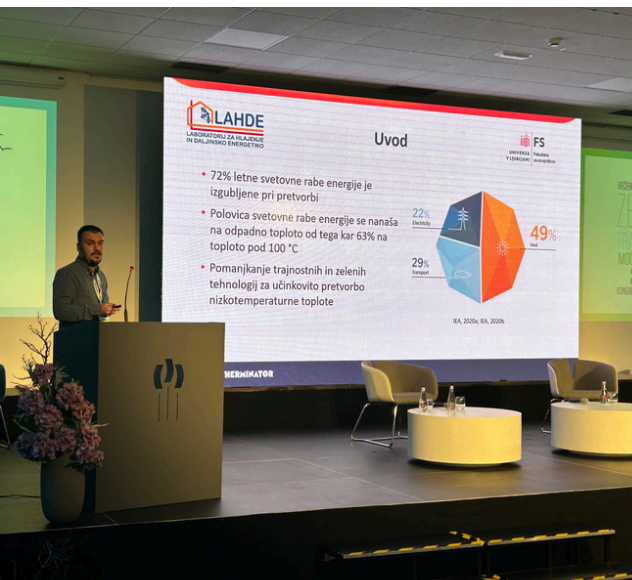


THERMINATOR presented at the Green Transformation Conference in Celje, Slovenia

On May 27, the THERMINATOR project was presented at the **Green Transformation conference**, organised by **Večer Publishing House** at the **Celje Congress Centre**, in Slovenia. The event gathered representatives from government, industry, and academia to discuss the future of the energy sector and sustainable transition.

A key highlight was the **Student Pitch session**, where **Izak Oberčkal Pluško**, from the **University of Ljubljana**, presented THERMINATOR, sharing its concept, challenges, and goals with an audience of experts and decision-makers.

The experience provided valuable insights, connections, and inspiring discussions on advancing a greener future.

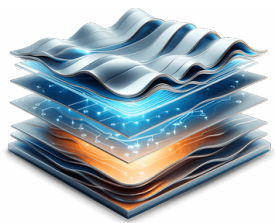


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Our stakeholder Advisor: INFLPR

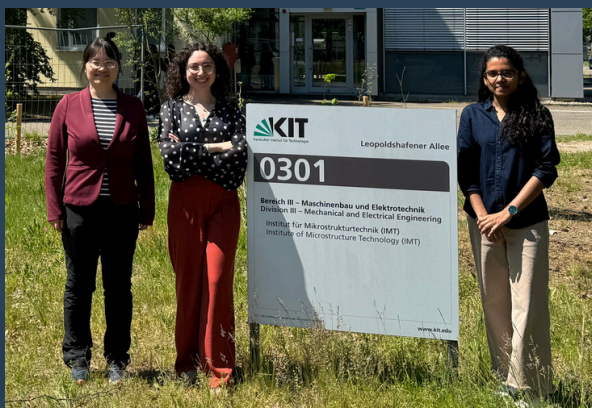


The INFLPR-C400 PHOTOPLASMAT department, part of the National Institute for Lasers, Plasma and Radiation Physics, is an advanced research infrastructure specialising in laser, plasma, and radiation technologies for advanced materials and prototyping. It integrates industrial-standard processing, characterisation, and testing systems within a high-performance technological workflow aimed at achieving high TRL results and supporting technology transfer to industry.

The facility includes ISO7/ISO6 cleanrooms, advanced materials processing technologies (PLD, sputtering, CVD, electron beam evaporation), characterisation equipment, and prototyping tools. PHOTOPLASMAT is also part of major European research infrastructure networks, including RIANA and LASERS4EU.

As a member within the Advisory Board of the THERMINATOR project, it is supposed to help guiding the strategic and technical direction of the work performed within the project on the next-generation electrocaloric and thermoacoustic energy conversion technologies. With the board meeting scheduled for late summer, more details will likely be revealed then.

Meet our consortium members: Karlsruhe Institute of Technology



The ZEco Thermal Lab at the Karlsruhe Institute of Technology (KIT, Germany)

develops sustainable thermal energy technologies for cooling, heating, and power generation, aiming to support the transition toward climate-neutral energy systems.

Within THERMINATOR, KIT team composed of Dr Jingyuan Xu, Harini Nivetha Raja and Hayrunisa Tufan, focuses on the development of micro-thermoacoustic devices for cooling and energy harvesting applications, supporting efficient utilisation of waste heat and sustainable energy conversion technologies.

Sister project under the spotlight: SteamDry



SteamDry is an EU-funded project working to make energy-intensive industries cleaner and more sustainable by promoting the use of electrified heat. The project focuses on innovative technologies such as superheated steam drying, helping sectors like paper and board reduce their reliance on fossil fuels, cut emissions, and improve energy efficiency. In doing so, SteamDry supports Europe's transition towards a climate-neutral and competitive industrial future.

Steamdry is organising a Sustainable Energy Day organised with the METAWAVE project as part of EU Sustainable Energy Week (EUSEW) 2026. The online event, "**Electrification and advanced heat for energy-intensive industries: from pilots to EU-wide deployment**" (18 June 2026), will bring together experts from industry, research, and policy to exchange ideas, showcase solutions, and discuss how to accelerate the uptake of clean heat technologies across Europe.

Register now!

<https://tinyurl.com/5cekv9c2>

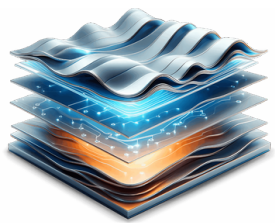


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2 Cool2Waste Webinar:

The future of energy efficiency: practical solutions for heat recovery and electrification

As part of [European Sustainable Energy Week 2026](#), the [2Cool2Waste](#) cluster will host an online webinar on 19 June 2026 (10:00-12:00 CET) titled “The future of energy efficiency: practical solutions for heat recovery and electrification.”

The event will bring together eight EU-funded projects to present solutions for heat recovery, electrification, thermal energy management, and net-zero technologies, with a focus on supporting industrial decarbonisation and energy efficiency. The webinar aims to foster exchange between researchers, industry, policymakers, and energy stakeholders.

Date and time:

Friday, 19 June 2026, 10AM-12PM (CEST)

Register now!

[Webinar registration](#)

#EUSEW2026

European Sustainable Energy Week



THE FUTURE OF ENERGY EFFICIENCY: PRACTICAL SOLUTIONS FOR HEAT RECOVERY & ELECTRIFICATION

JUNE 19, 2026,
10AM-12PM
ONLINE



20
YEARS



Don't miss the chance to exchange practical approaches to heat recovery, electrification, and net-zero technologies through thematic panel discussions.

- **Cooling without wasting energy:** can heat help us cool ?
- **Heat pumps:** turning low-temperature heat into useful energy
- **Energy systems working together:** buildings, grid and flexibility
- **Decarbonising industrial processes :** from fossil fuels to clean industrial heat

Register now!



Webinar replay

- Multiphysics Modeling for Acoustics Applications, Part 2: Acoustic-Thermal Interaction (Thermoacoustics), organised by COMSOL on 5 May 2026. Replay available [here](#).

Community events

- 9th International Conference Technologies and Business Models for Circular Economy, 9-11 September 2026, Portorož, Slovenia
- Heat Pump Forum & Awards 2026, 1 December 2026, Brussels, Belgium
- European Energy Efficiency Conference, 3-5 March 2027, Wels, Austria



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