contact us

If you are interested in INDHEAP project, please feel free to contact us:

Valéry Vuillerme
Coordinator
Valery.VUILLERME@cea.fr

Joan Guardià Vilajosana
Dissemination manager
guardia@amires.eu

Consortium partners

cea
SINTEF
TotalEnergies
ABSOLICON
newheat
renewable heat supplier
HELIOSLITE
The Cyprus Institute
AEE INTEC
PIROBLOC
ALAMBRA
RINA
HEADGY
AMIRES

DEVELOPING OPTIMAL HYBRID SOLAR SYSTEMS FOR INDUSTRIAL HEAT AND POWER

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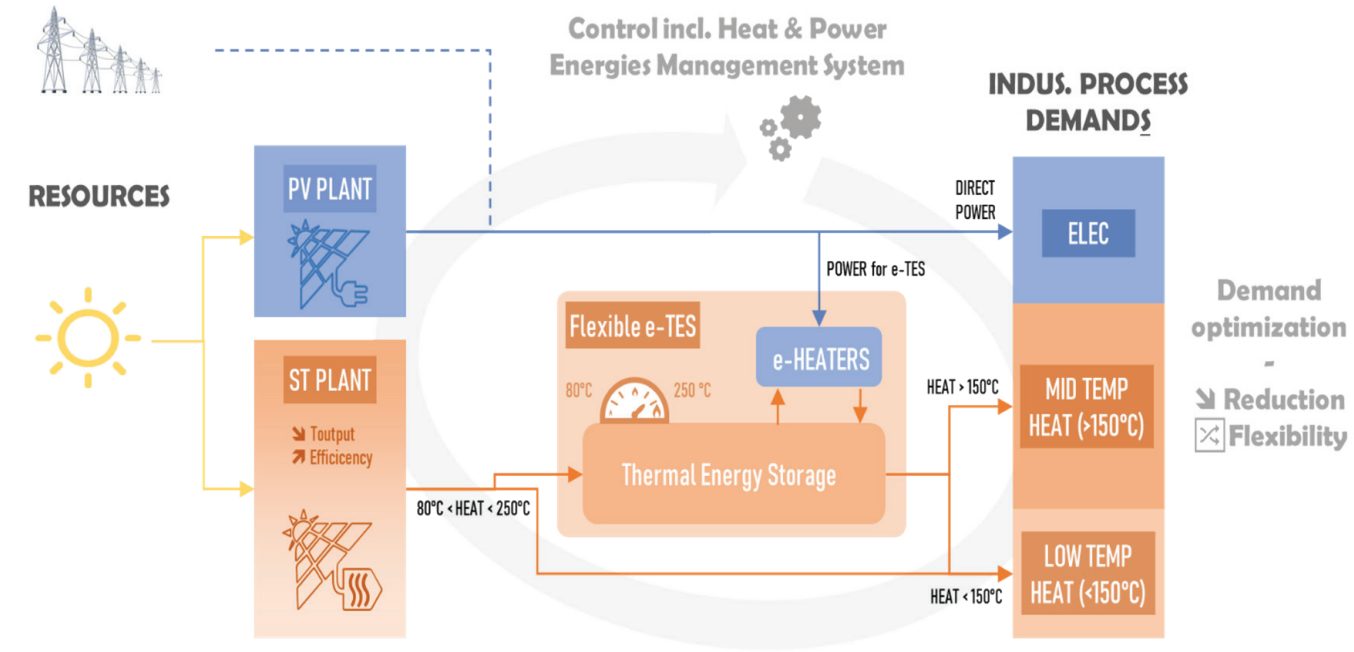
www.indheap.eu

INDHEAP in a nutshell



INDHEAP Concept Overview

INDHEAP project will demonstrate at TRL7 that it is worth considering solar thermal (ST) and photovoltaic (PV) energies in combination to address the heat and power needs of mid temperature industrial processes, up to 250°C.

INDHEAP aims to decarbonize industrial heat through innovative solar thermal and photovoltaic integration.

Technological Pillars of INDHEAP

- Solar Energy Integration: Harnessing solar thermal and photovoltaic technologies to supply clean, renewable energy tailored to industrial heat demands.
- Advanced Thermal Systems: Development of high-efficiency thermal collectors and heat exchangers to maximize energy capture and transfer across diverse industrial processes.
- Industrial Flexibility: Designing modular and scalable solutions adaptable to various sectors.
- Decarbonisation: Reducing greenhouse gas emissions and fossil fuel dependency by enabling industries to transition to sustainable heat sources.

Expected Impact

Accelerating the Transition to Renewable Industrial Heat.

Energy Efficiency and Peak Reduction.

Scalability and Regional Replicability.

INDHEAP challenges

- Significant investments required before the market uptake
- Lack of trust in the new technology from potential adopters
- Extensive regulatory frameworks making INDHEAP system installation challenging (PED, PCI, etc.)
- Difficulty reaching a competitive price of REs heat & power compared to fossil-based solutions
- (for the moment) Little interest from Energy Service Companies and investors in a niche market
- Integrating ST+PV systems on existing industrial sites imposes many constraints on the design