Push2Heat

Pushing forward the market potential of heat upgrading technologies in the industrial sector

Want to stay up-to-date with the projects developments?
Follow Push2heat online

Overall Scope

PUSH2HEAT is an EU-funded project aimed at scaling up heat upgrading technologies to overcome technical, economic, and regulatory barriers. The project will focus on four different technologies with supply temperatures ranging from 90°C to 160°C, integrating them into the paper and chemical industries. Demonstrations of the four technologies will take place at selected industrial sites. The project also aims to develop business models and exploitation roadmaps for increased market penetration of heat upgrading technologies.

Expected outcomes

- Demonstration of heat upgrade systems for industrial processes using waste heat of 90°C to 160°C
- Development of business models and contractual agreements for using upgraded heat within the industrial plant, neighbouring plants, or external heating network
- Upscaling and improvement of the techno-economic performance of heat upgrade technologies for integration and adaptation to more industrial processes
- Increased awareness of the benefits and challenges of heat upgrading in relevant industrial sectors

Technologies involved

Electrically driven heat pumps

- Vapour compression heat pump with piston compressors
- Vapour compression heat pump with turbo-compressors

Thermally driven heat pumps

- Large Scale absorption heat transformer
- Thermochemical heat transformer

Demonstration sites

- **Weissenborn, Germany**
- **Guarcino, Italy**
- **Industrial scale system, Belgium**

Project partners

tecnalia MEMBER OF BASQUE RESEARCH & TECHNOLOGY ALLIANCE · baelz automatic · BS Nova · CG CARTIERE DI GUARCINO · Cannon Bono Energia · TECHNOLOGY CENTRE CARTIF · ehpa · ENERGIE CIRCULAIRE · enertime · FELIX SCHOELLER · Fraunhofer · OST Ostschweizer Fachhochschule · POLITECNICO MILANO 1863 · QPINCH · SPH · tecnalia ventures Technology Value for Growth · UNIVERSITAT POLITÈCNICA DE VALÈNCIA · Technische Universität Berlin · vito

Funded by the European Union

Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or CINEA. Neither the European Union nor the granting authority can be held responsible for them