



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

Demonstrations sites



Electrically driven heat pumps

Demo-site 1: Weissenborn, Germany

Type of production: Paper & Pulp

Technology involved: Vapor compression heat pump with piston compressors

Demo-site 2: Guarcino, Italy

Type of production: Paper & Pulp

Technology involved: Vapor compression heat pump with turbo compressors



Thermally driven heat pumps

Demo-site 3: Santander, Spain

Type of production: Chemical

Technology involved: Large Scale absorption heat pump technology

Industrial Scale System, Belgium

Type of production: Chemical

Technology involved: Scaling up and demonstration of a thermochemical heat pump technology

Project partners



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA



QPINCH



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