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Push2Heat

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

Overall Scope

Push2Heat is an **EU-Funded** project that aims at addressing the technical, economic, and regulatory barriers that prevent **heat upgrading technologies** to be widely deployed. It will do so by **scaling up four different heat upgrading technologies** (whose supply temperatures range from **90 °C to 160 °C**) to **optimise** their **efficiency** and **economic performance**. In addition, it will focus on **integrating** them into the relevant industrial sectors such as the **paper and chemical** industries. The four technologies will then be **demonstrated** in selected industrial sites.

The project will also work towards **demonstrating** suitable **business models** and dedicated **exploitation roadmaps** for **higher market penetration** of **heat upgrading technologies.**

Technologies involved

Push2heat technologies will be demonstrated in the **paper** and **chemical** sectors

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**
- **Belgium**

Expected outcomes

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