SPIRIT

Implementation of sustainable heat upgrade technologies for Industry

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EHPA and CEPI Networking Event

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SPIRIT Objectives

1. **Demonstrate 3 full-scale HPs** in the food and paper industrial sectors, with 3 different technologies

2. Improve **technical and economic performance** of HTHPs to enable an increase in their market uptake

3. Develop **HP repeatable concepts and modular design** to ensure that HP manufacturers can replicate the construction of HP units after Project completion

4. **Draft agreements and business models for delivery of upgraded heat** addressing possible regulatory barrier

5. **Create awareness of the challenges and benefits of heat upgrading technology** in the industry for reducing energy costs and GHG emission

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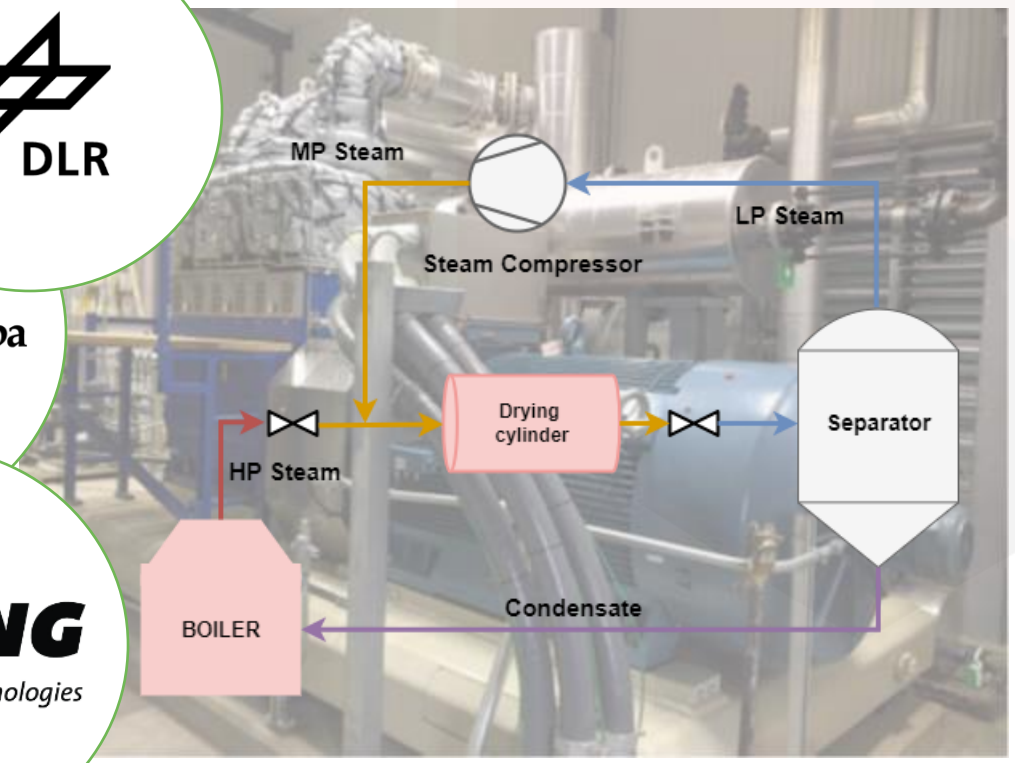
Demo-site 1: Corrugated packaging plant (Location: Smurfit Kappa, Morava CZ)



- Demonstration of Spilling heat pump technology at Smurfit Kappa corrugated packaging plant in Morava, CZ
- Demonstration case targeting the flashing of condensate return to boiler and upgrading of temperature with MVR system
- Spilling is developing standardized (containerized) 4-cylinder piston compressor units as a low cost solution for this application
- Incorporating waste heat sources the next step in the pathway towards a CO_2 neutral process

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Thank you!

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