

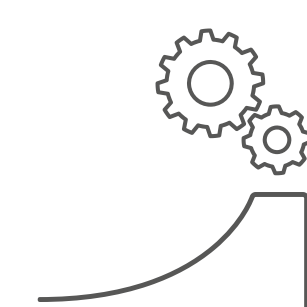
Supercritical CO₂ power cycles
demonstration in Operational
environment Locally valorising
industrial waste **HEAT**

4 years (2021-2025) • €18,8M budget

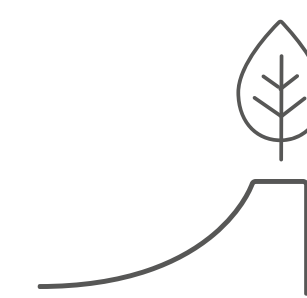
CONCEPT

CO₂OLHEAT aims to unlock the potential of industrial waste heat and to transform it into power via supercritical carbon dioxide cycles. The cutting-edge sCO₂ technologies will be employed to design and demonstrate the EU's first-of-its-kind 2MW sCO₂ plant in a real industrial environment.

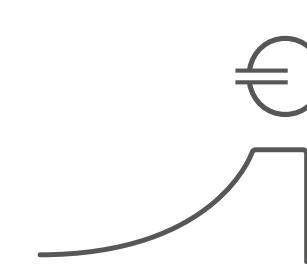
EXPECTED IMPACTS



Technology: Unprecedented combination of improved power block characteristics

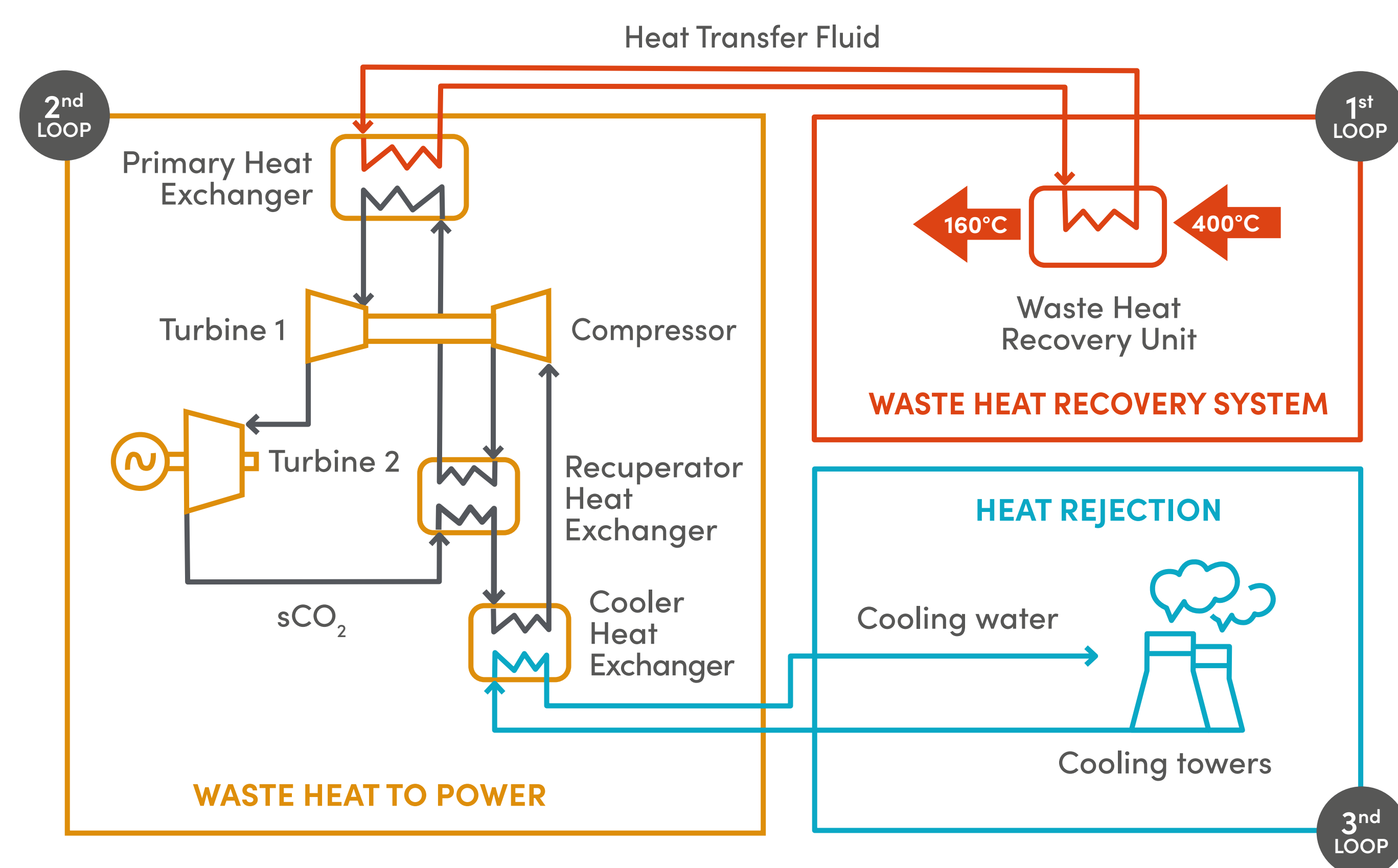


Environment: Reduction of GHG emissions & primary energy, water and material savings



Economy: Avoided costs of electricity, short payback period, low LCOE and CAPEX

sCO₂ POWER CYCLE



REPLICATION SITES

Glass Industry (TR)

Aluminium Industry (GR)

Steel Production (ES)

Waste Incineration (BE)

Power Generation CCGT (FR)

Power Generation CSP (ES)

DEMO SITE

Cement Production (CZ)