EFFICIENCY OF INDUSTRIAL PROCESSES

Efficiency of Industrial Processes

Separated into 4 Work Packages

WP1

WP2

WP3

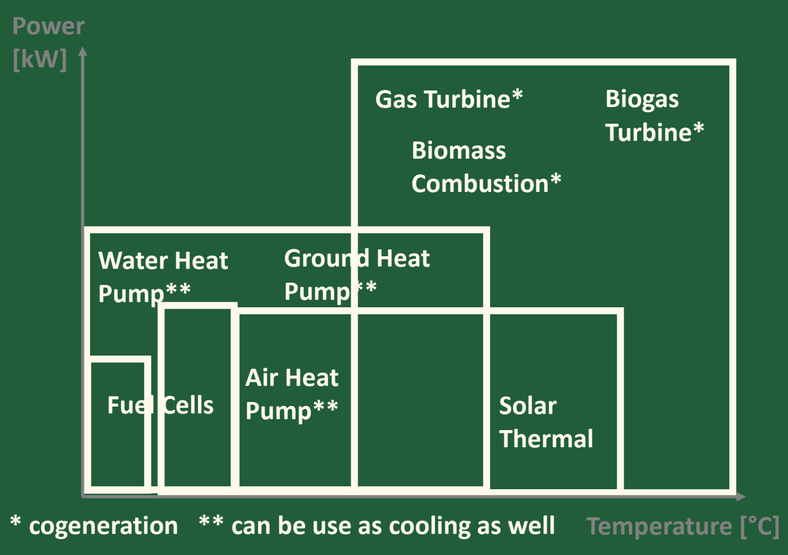
WP4

EIP Goal

The EIP SCCER focuses R&D on systems at different scales, from individual process units to integrated processes up to integrated sites connected with their surroundings. It focusses primarily on technological innovation, testing and demonstration sites, but also examines organisational and operational aspects.

The development of efficient, reliable, and flexible solutions and technologies for industrial processes and production sites are a key element in the "Energiewende".
In addition to innovative and efficient energy conversion technologies there is a need to develop systems solutions that reveal the rational use of energy in the processes by favoring heat recovery and energy integration in industrial and energy conversion processes. A large number of industrial processes require a well-defined set of thermal energy management approaches with a target put on **cost minimization, intensification, efficiency, flexibility and reliability**.
Therefore the target of this work-package is the **development of technologies** which can be used widely and scaled on a large range. Such technologies are the supply of **heating and cooling** with efficient new technologies and **renewable energies, energy recovery from waste heat, and thermal storage**.

Help industries to choose well



Comparing relevant technologies

85 % Most efficient processes

Renewable energy sources

Less polluting solutions

New innovative techniques

Collaboration between academies and industries

Reasonable payback time

WP2 institutes:

NTB Interstaatliche Hochschule für Technik Buchs, FHO Fachhochschule Ostschweiz

HSR Hochschule für Technik Rapperswil, FHO Fachhochschule Ostschweiz

EPFL École polytechnique fédérale de Lausanne