



SPIRE and Catalysing the Circular Economy BROKERAGE EVENT

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***HYBRID HEATING IN THE PROCESS
INDUSTRY***

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- › Private, non-profit making institute for applied research and development
- › Located in Düsseldorf, Germany
- › Leading provider of application-focused R&D in the **Iron & Steel industry**
- › Short and medium term research originated by industrial production topics
- › Large national and European network (research and industry)
- › Staff of 100 people with very high academic degree



Deep
understanding of
production
processes



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Hybrid heating in the process industry

Problem:

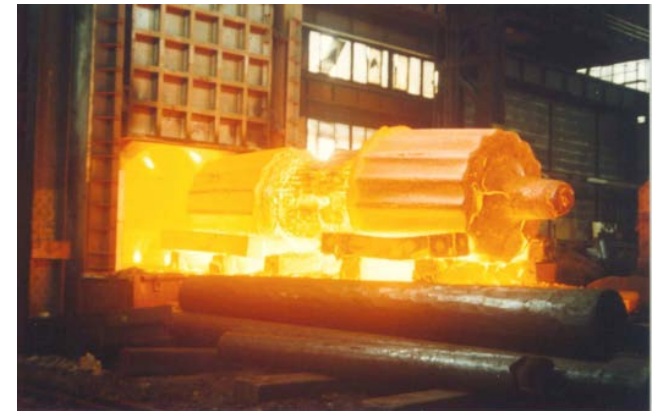
- › High fluctuation of renewable energy input into electricity grid
- › High fossil energy demand/consumption and CO₂-emissions of the european process industry

Aim:

- › Adaptation of production processes to increasingly sustainable, but highly fluctuating renewable energy supply
- › Reduction of fossil fuel consumption of process industry
- › Lowering of CO₂-footprint of process industry

Measures:

- › Development of new hybrid technologies (SPIRE-Roadmap - KA 2.4: More efficient systems and equipment)
- › Efficient use of renewable energy for process industry with new hybrid heating solutions



EXPECTED IMPACT

Call: CE-SPIRE-03-2018:

Energy and resource flexibility in highly energy intensive industries

- › Improved process efficiency by adapting hybrid heating solutions to existing processes
- › Reduction of consumption of fossil fuels and therefore reduction of CO₂-emissions
- › Enhancement of process flexibility by additional energy sources
- › Integration of renewable energy
- › Demand side management strategies

EXISTING PROJECT CONSORTIUM

Iron & Steel industry is interested to contribute.

Ongoing discussions with industry partners.

LOOKING FOR PARTNERS

Partners complying with the project ideas and scopes
are welcome.

CONTACT DETAILS

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