
H2020-EE-2014-1-PPP
01/12/2014-30/11/2018
Project Case Study

1. The EU/ SPIRE needs
   - Solutions to recover waste heat from EII
   - Reduction of primary energy consumption

2. The Project Solution
   A new ORC concept based on Direct Heat Exchanger technology will be developed and validated for EII applications

3. Value to Customers
   EII will have access to a new ORC based technology with lower maintenance costs, lower RoI and larger efficiency

4. How will this happen?
   Demonstrator to be built and located in a cement production site. Validation and demonstration in real industrial conditions in a 6 month testing campaign
What **outputs or learning** from TASIO could have value for other SPIRE projects here?

- **New Coatings/materials developed…to withstand harsh environments in contact with waste gases from EII industries (glass, cement, steelmaking….)** Deliverable D3.2 (Private). Main results to be published in a scientific journal in 2018.

- **Industrial demonstrator** with capacity to produce 2 Mwe. **Public Workshop** to be organised in spring 2018

- Interesting to have 3 end users representing 3 different EII to analyse the results and have a quick view on replicability of the technologies developed.

- The use of social media (Twitter, facebook increases the visibility of the project).
TASIO: ENERGY INTENSIVE INDUSTRIES USE THEIR WASTE HEAT TO PRODUCE ELECTRICITY AND COMPRESSED AIR

A NEW 6 MEURO INDUSTRIAL INSTALLATION BASED ON A DIRECT HEAT EXCHANGER ORC TECHNOLOGY DEVELOPED IN A SPIRE-PPP COLLABORATIVE PROJECT HAS BEEN SUCCESSFULLY VALIDATED IN THE CEMENT PLANT OF CEMENTI ROSSI IN PIACENZA (ITALY)
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