Project No:
764697

Project acronym:
CHEERS

Project full title:
Chinese-European Emission-Reducing Solutions

Type of Action: **RIA**

Call/Topic:
European Horizon 2020 Work Programme 2016 – 2017, 10. 'Secure, Clean and Efficient Energy', under the low-carbon energy initiative LCE-29-2017: *CCS in Industry, including BioCCS*

Start-up: 2017-10-01
Duration: 72 months

Deliverable
D7.2 Exploitation Plan

Due submission date: 2024-04-30

Actual delivery date: 2024-04-17

Organisation name of lead beneficiary for this deliverable:
SINTEF Energi AS

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Dissemination Level		
PU	Public	
CO	Confidential, only for members of the consortium (including the Commission Services and MOST)	X

Abstract for publication on the website of CHEERS

This deliverable showcases the main exploitable results from the project CHEERS, as well as documenting the actions taken by the consortium aimed at accelerating the uptake of the technology/results from the project.

Exploitation of results from H2020 projects are important, and partners are obliged to contribute to the exploitation of the results. Exploitable results are defined wider than often anticipated, and includes three categories, including the actual exploitable results in CHEERS in each of the categories:

1. **Commercial exploitation**: Results that can be used for commercial activities (novel products, spin-offs, patents etc.):
   a. A techno-economic evaluation framework for the CLC technology
   b. A Class IV cost estimate of the CLC process for two application cases refinery and power.
   c. Process simulation of the full process
   d. Several operational procedures for the demo unit.
   e. Identification of various CO2 specifications for different CO2 use downstream the CLC unit.
   f. Design of optimal flue gas treatment to reduce the CAPEX and OPEX of the CLC technology.
   g. Procedures for how to build and operate a CLC unit.
2. **Scientific exploitation**: Results that can be used for further research, new projects, new methods for internal use etc.
   a. Methodology and tools required to make numerical or empirical predictions related to the CLC process.
   b. Methodology and tool for screening oxygen carriers
   c. Cold flow mock-up.
3. **Political & Social exploitation**: Results that can be used to influence policymaking and the wider public. This includes the relations made throughout the CHEERS project, particularly the EU-China relation.
   a. The close collaboration between TotalEnergies on one hand and the main Chinese partners on the other hand.
   b. Well-functioning dialogue between all partners in the project from the project proposal phase until the end.
   c. The successful coordination of such a large industrial project by SINTEF Energy, a major European R&I institute.