



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: 60 months

## **Deliverable D1.1: Launch event**

Due submission date: 2017-10-30  
**Actual delivery date: 2017-12-07**

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

CHEERS conforms to the 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). The ambition is to improve the efficacy of CO<sub>2</sub> capture in industry, and help ensuring sustainable, secure, and affordable energy.

The action involves a 2<sup>nd</sup> generation chemical-looping technology tested and verified at laboratory scale (150 kWth). Within the framework of CHEERS, the core technology will be developed into a 3 MWth system prototype for demonstration in an operational environment. This constitutes a major step towards large-scale decarbonisation of industry, offering a considerable potential for retrofitting industrial combustion processes.

The system prototype is based on a fundamentally new fuel-conversion process synthesised from prior research and development actions over more than a decade. The system will include heat recovery steam generation with CO<sub>2</sub> separation and purification, and it will comply with industrial standards, specifications and safety regulations. Except for CO<sub>2</sub> compression work, the innovative concept is capable of removing 96% of the CO<sub>2</sub> while eliminating capture losses to almost zero.

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CHEERS started 1 October 2017 and is scheduled to end by September 2022. The estimated budget is 16 mill. EUR.

The launch event for CHEERS was split in two parts: A technical pre-meeting in China 18-20 October including a site visit to the pilot site at Deyang, and a traditional kick-off event in Norway 28-30 November. The event in Trondheim comprised a number of meetings:

- Kick off meeting
- Management Support Team meeting
- General Assembly meeting
- Site visit to CCS laboratory
- Executive Board meeting
- Separate Work Package meetings