

The twinning meeting will end with a round-table where the EU and Australian partners will exchange their experiences and knowledge in order to pave the way towards long-term results and structural professional networking.

ASCENT



16 European Partners:

4 Universities: UNIVAQ, TUE, POLIMI, IMP,
 5 Industrial companies: JM, ARI, MTEC, ZEG, CALIX
 4 Research centres: ECN, IF2, QUANTIS, SINTEF
 1 Public research institute: INERIS
 2 national research agencies: CSIC, ENEA

7 Countries:

5 Member States:

Netherlands, UK, Italy, France, Spain

2 Associate Countries: Norway, Swiss

4 years duration:

Starting date: on March 1st, 2014

Budget size: 9.2M €: 7.0M € EC grant 2.2M € own Partners funding

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The European Commission is pointing out the commitment of Europe to achieve the 20/20/20 targets by 2020 by reducing the emissions of greenhouse gases. In fact, to continue the commitment with climate change policies a further target of 40% reduction in GHG emissions by 2030 was proposed which requires practical actions to be achieved. The cooperation between Europe and Australia started in 2010 with several visits until the final publication of a call in the ENERGY programme in 2014. This call received more than 40 proposals with 6 proposals funded



and having twinning activities with Australia. In fact, Australia has a common research platform for 2020 and wants to reduce emissions below the 2000 level by 5%.

First EU-Australian workshop –

A first workshop regarding the CO2 capture technologies has been organized in Sydney the 13th-14th March 2014. As all projects have in common



benchmarking and techno-economic analysis, it was recommended that a benchmarking would be organized in Brussels.

Second EU-Australian workshop – In order to continue the commitment to strengthen the European and Australian cooperation in the field of CCS technologies, *ASCENT consortium is glad to announce the launch of a second twinning European-Australian workshop back to back to the Conference on Greenhouse Gas Control Technologies (GHGT-13) in Lausanne, Switzerland. The twinning meeting will be held in the Swiss Convention Centre on the 14th November 2016.* This meeting will help researchers from EU and Australia to align and harmonise their activities in the common work of making practical progress on new generation high-efficiency CO₂ capture process technologies. Indeed, delivery CCS technologies needs the creation of a critical mass of resources and the integration and coherence of efforts across the world between researchers and industrial operators. In that regards, the EU-Australian workshop has a primary objective to link ASCENT and the other current EU projects on the CCS: HiPerCap, Interact and Green-CC. This will enable to share the knowledge acquired and to speed up developments at lower costs; in addition, some of the partners are co-operating in this field of research since many years, and others are new-comers contributing to better address the original expertise to the specific topics within CCS field: a well assorted and established partnership, with the purpose to bring together academic, industrial and research organizations at the EU level, to integrate them in a specific project well fitted into the European priorities, and to contribute to enlarge the European research area up to the new frontiers of research.

After a brief introduction of ASCENT project, the first part of the day will be focused on the presentation of the main results of the current

EU projects: HiPerCap, Interact and Green-CC. The second part of the workshop will highlight the latest results which ASCENT consortium has attained jointly with the Australian partners in the definition of performance criteria, to support a coherent and realistic framework of activities within the field of advanced solids cycle with efficient novel technologies.

Agenda

Morning Session: EU and Australian Projects

- 9:00 Coffee
- 9:15 Introduction
- 9:30 Overall Ascent Introduction
- 10:00 Green-CC
- 10:30 Interact
- 11:00 HiPerCap
- 11:30 Coffee break
- 11:45 CCS in Australia
- 12:15 Performance criteria and benchmarking
- 12:45 Lunch

Afternoon Session: ASCENT materials

- 13:45 Safety and sustainability impact assessment
- 14:15 Combined Ca-Cu Chemical Loop: process development
- 14:45 Fast Sorbent mediated water-gas shift
- 15:15 Sorption Enhanced Reforming looping cycle
- 15:45 Coffee break
- 16:00 European-Australia Round-table
- 16:30 Finish

