

## Project



SPIRE-05-2016

### **CarbonNext**

**Full Title:** The Next Generation of Carbon for the Process Industry

### **Aim:**

The process industries and other crude oil consuming sectors are heavily dependent on fossil inputs for both carbon feedstock and energy, with the consequential CO<sub>2</sub> emission problems and import dependency as a result. To be prepared for the future, they are seeking alternative carbon sources to replace traditional fossil fuels. CarbonNext aims to evaluate the potential use of CO<sub>2</sub>/CO and non-conventional fossil natural resources as feedstock for the process industry in Europe.

**Concept:** The work will examine the existing and expected sources of CO<sub>2</sub> and CO as well as non-conventional fossil natural resources such as shale gas, tar sands, coal bed methane, gas to liquid, and coal to liquid technologies. Results of the project will include the identification of value chains within processes and where industrial symbiosis can be valuable (chemistry, cement, steel, etc.). The CarbonNext project will provide, as a basis for decisionmaking, an enhanced understanding of the impact and opportunities for new sources of carbon for the processing industry. CarbonNext will primarily focus on new sources of carbon as a feedstock and secondarily on the impact on energy availability, price and emissions. CarbonNext will build on the project's team achievements in the FP7 project SCOT (Smart CO<sub>2</sub> Transformations), the BMBF-funded coordination project CO<sub>2</sub>Net, the CO<sub>2</sub>Chem network as well as many other climate and energy related projects.

**Start date:** 1 September, 2016

**End date:** 31 August, 2018

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