



HAL
open science

NOVEL CCU TECHNOLOGIES: A SAPEA REPORT

Thibault Cantat

► **To cite this version:**

Thibault Cantat. NOVEL CCU TECHNOLOGIES: A SAPEA REPORT. 27th European Biomass Conference & Exhibition (EUBCE 2019), May 2019, Lisbon, Portugal. cea-02329458

HAL Id: cea-02329458

<https://hal-cea.archives-ouvertes.fr/cea-02329458>

Submitted on 23 Oct 2019

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers.

L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.

NOVEL CCU TECHNOLOGIES: A SAPEA REPORT

DR. THIBAUT CANTAT

CEA - Saclay, Basic Research Division, France

ABSTRACT

While greenhouse gases emissions are reaching alarming levels, fossil fuels still represent 80% of the world energy portfolio and 95% of our chemical commodities rely on non-renewable resources, namely hydrocarbons. In this context, utilizing CO₂ as a C1 building block to produce platform chemicals and fuels as an alternative to petrochemistry has a double advantage of reusing CO₂ while sparing fossil resources and avoiding CO₂ emissions from their use.^[1] In this presentation, the main conclusion of the report ordered by SAPEA to a panel of 15 European experts in the field will be discussed.^[2]

REFERENCES

- [1] Boddien, A.; Federsel, C.; Sponholz, P.; Mellmann, D.; Jackstell, R.; Junge, H.; Laurenczy, G.; Beller, M. *Energy Environ. Sci.* **2012**, *5*, 8907.
- [2] <https://www.sapea.info/ccu/>.