AC Biode

ＡＣ　Ｂｉｏｄｅ株式会社
https://acbiode.com/

Manufacturing　|　Manufacture of chemical and allied products
製造業　|　化学工業

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京都府　京都市左京区　岩倉花園町４９８番地６
¥100,000,000 (capital 資本金)　1-50 (employees 従業員数)

Area of Interest

North America, Europe, Southeast Asia, Oceania
北米, 欧州, 東南アジア, オセアニア

PR

Introduction & Problem Statement
“In October 2017, the UK government announced its new approach to carbon capture, usage and storage in the Clean Growth Strategy. The goal is to enable the UK to become a global technology leader for carbon capture, utilisation and storage (CCUS) and ensure that the government has the option of deploying CCUS at scale during the 2030s, subject to costs coming down sufficiently.” 1
However, the carbon capture currently has several problems:
1) high complexity and low credibility

2) prohibitively high CAPEX and OPEX, and
3) difficulties in separating, purifying, transporting and storing the captured CO2.
The Solution
In light of the aforementioned challenges, we have developed a patent-pending dry powder that chemically adsorbs CO2 selectively when it experiences airflow, producing a raw material that is used in the manufacture of glass (Reco Glass). Using our CO2 adsorbent in air filters, we avail existing domestic and commercial infrastructures such as air purifiers, air conditioners and ventilation/HVAC systems to capture carbon. This way our air filters are revolutionising the carbon capture industry by offering a decentralised direct air capture (DAC) solution that is simple, effective, affordable and scalable.

CO2を空気中から吸着、固形化しガラスにリサイクル
レブセルと当社の協業で、CO2を空気清浄機やエアコン、DAC機器等で吸着、固形化し、ガラス工場等でガラスにリサイクルします。我々が知る限り、恐らく世界初のプロセスで、特許も申請済です。日本で複数受注し、スイス不動産大手SPSと実証実験も開始しました。対象は、商業ビル、船、空調、店等です。

Product technology

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本件は、レブセルと当社の協業で、CO2を空気清浄機やエアコン、DAC機器等で吸着し、固形化し、ガラス工場等でガラスにリサイクルします。我々が知る限り、恐らく世界初のプロセスで、特許も申請済です。日本エアーテック、日本山村硝子とも協業しており、G7広島サミットでも展示しました。

Kyoto Online Teck Pavillion
https://kyoto-tech-companies.com/