TOSHIBA

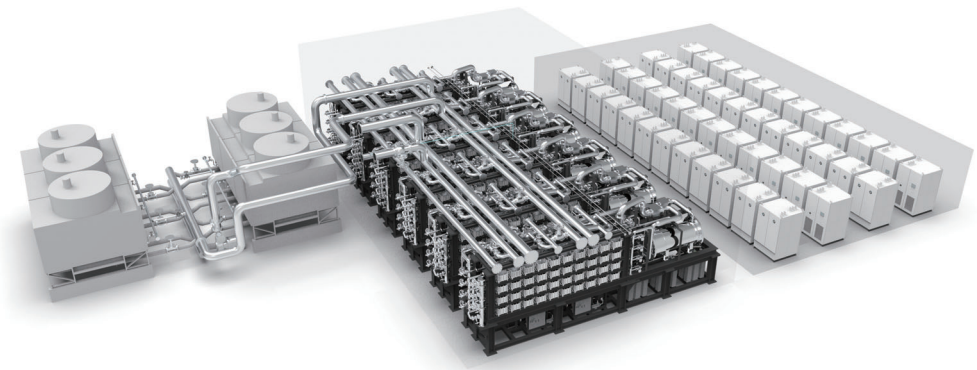
Smart-use

P2C Power to Chemicals

Convert CO_2 into valuable products

CO_2が価値あるものに生まれ変わる

CO_2 throughput 250 t/y class



CO_2 throughput 30,000 t/y class

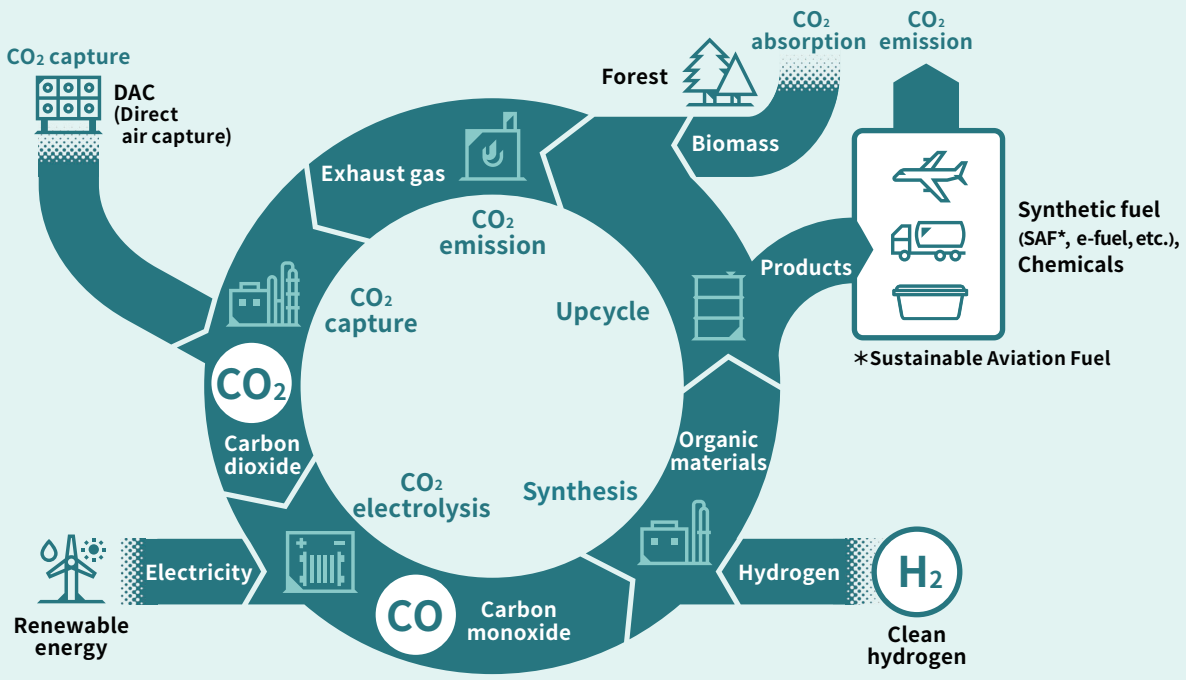
C2One™ module

P2C (Power to Chemicals) which uses renewable energy to convert CO_2 into fuels and chemical products essential for our lives. This visionary technology is close to realization.

再エネでCO_2を資源に変える『P2C（Power to Chemicals）』で、生活に不可欠な燃料や化学製品を、CO_2から創り出す!? 夢のような技術が実現に近付いています。

The key technology to the circular carbon society is "CO_2 electrolysis"

炭素循環社会のカギは「CO_2電解」技術



Toshiba has developed a special catalyst and achieved the world's highest conversion rate in CO_2 electrolysis, in which CO_2 is directly reacted in gaseous state, without being dissolved in water. Using renewable energy to convert CO_2 into CO (a raw material for chemical synthesis). P2C bridges the CCU supply chain. Operational demonstration of the C2One™ module will be conducted under the "Project to Promote the Construction of a Carbon-Circulating Society Model through the Recovery of Carbon Dioxide as a Resource" commissioned by Ministry of the Environment of Japan.

東芝グループでは特殊な触媒を開発し、CO_2を水に溶かすことなく気体のまま直接COに変換する「CO_2電解」で世界最高レベルの変換速度を達成しました。CCUのサプライチェーンをつないで、カーボンニュートラルなサイクルを実現します。環境省より『二酸化炭素の資源化を通じた炭素循環社会モデル構築促進事業』の委託を受けC2One™モジュールの運転実証を実施します。

English

Japanese