

**21 July 2023****Chiyoda Awarded FEED Contract for a CO<sub>2</sub> to CO chemical transformation plant  
(pre-treatment process for supplying bioreactors)**

Chiyoda Corporation (Chiyoda) is pleased to announce that it has been awarded a Front End Engineering Design (FEED) contract from SEKISUI CHEMICAL CO., LTD. (Customer) for a carbon dioxide (CO<sub>2</sub>) to carbon monoxide (CO) chemical transformation plant (pre-treatment process for supplying bioreactors).

This plant will be used for research and development of the 'Promotion of Carbon Recycling Using CO<sub>2</sub> from Bio-manufacturing Technology as a Direct Raw Material | NEDO Green Innovation Fund Projects' by the New Energy and Industrial Technology Development Organization (NEDO). This efficient technology transforming CO<sub>2</sub> to CO has been developed with a CO<sub>2</sub> conversion rate of 90% or higher, and termed 'Chemical Looping Technology' by the customer. In addition to introduce the technology to the pre-treatment process for supplying gas for bioreactors, the FEED scope also includes CO<sub>2</sub> capture plant from combustion gas to produce the raw materials for the reaction, hydrogen generation system and other equipment associated with Chemical Looping Technology.

CO is a key raw material for carbon neutrality technologies with future demand expected to increase, Chiyoda recognizes the significance of Chemical Looping Technology in producing CO, and will actively cooperate with its social implementation plan following FEED.

As an integrated engineering company, Chiyoda are actively involved in the social implementation of technologies to realize carbon neutrality, including CCUS, and will continue contributing to the development of a sustainable society in line with our management philosophy of 'Energy and Environment in Harmony'.

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