

PRESS RELEASE

October 31, 2020

**Toshiba Starts Operating Large-Scale Carbon Capture Facility
Contracted in 2016**

Chiyoda Corporation (TSE:6366; ISIN: JP3528600004) is pleased to announce that it has completed the EPC operations contracted with Toshiba Energy Systems & Solutions Corporation (hereinafter "Toshiba ESS") in 2016 for a large-scale carbon capture facility*1 at Mikawa Power Plant (capacity: 50,000 kW) to be operated by a subsidiary of Toshiba ESS, SIGMA POWER Ariake Corporation, in Omuta, Fukuoka prefecture. Mikawa Power Plant is fueled with palm kernel shells (PKS) as its primary fuel source for biomass energy generation. Therefore, the new facility to commence operation will be the world's first*2 bioenergy power plant to be equipped with large-scale Carbon Capture and Storage capabilities.

This facility uses our unique fuel gas desulfurization technology (CT-121) as a pretreatment device for the separation and recovery of CO₂. It will capture more than 500 tons of CO₂ a day, over 50% of daily emissions from Mikawa Power Plant, making it the Japan's first*3 carbon capture unit to capture over 50% of total CO₂ emissions from a thermal power plant.

In addition, this facility is a technology that can be introduced not only to new installations but also to existing thermal power plants. We will contribute to the prevention of global warming by accelerating the introduction of CCS*4 both domestically and internationally. To realize a low-carbon society, we will put into practice our management philosophy, "Energy and Environment in Harmony."

*1 Toshiba ESS was selected for the " Demonstration of Sustainable CCS Technology Project " sponsored by Japan's Ministry of the Environment. In that project, we have built a large-scale carbon capture facility to separate and capture CO₂, which Toshiba ESS is to start operating.

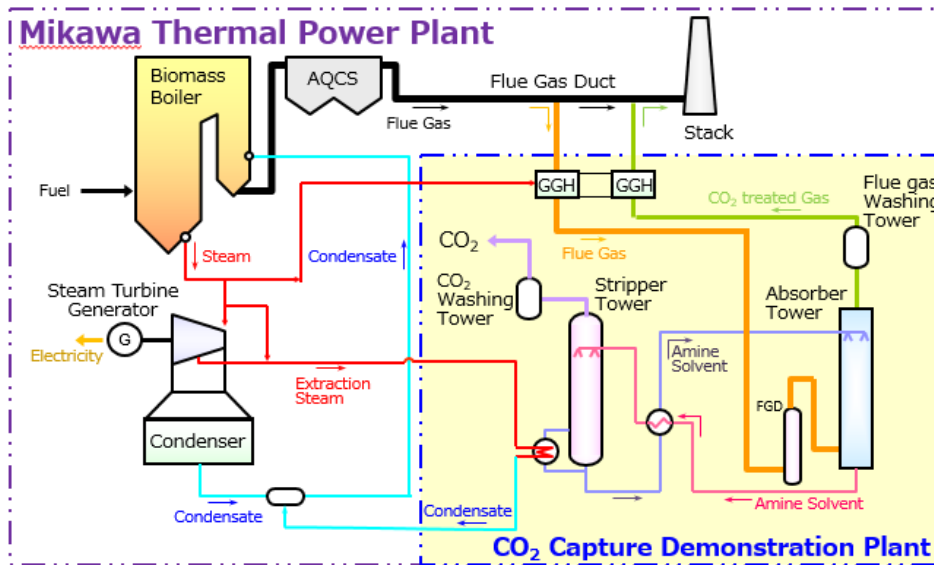
*2&3 As of October 2020, according to a survey by Toshiba ESS

*4 CCS(Carbon dioxide Capture and Storage) : Technology for separating, recovering, and storing CO₂.

Large-Scale CO₂ Capture Demonstration Plant



Mechanism of CO₂ Capture



For more information, please contact:

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