Press Release

April 2, 2018

OSAKI CoolGen Corporation

"OSAKI CoolGen Project"
Regarding Start of Construction of CO₂ Capture Unit

We are implementing the "OSAKI CoolGen Project" as a subsidized project of the New Energy and Industrial Technology Development Organization (NEDO). This project performs demonstration tests combining the integrated coal gasification combined cycle (IGCC*1) with CO₂ capture in order to drastically reduce the CO₂ emission from coal-fired power generation.

The "OSAKI CoolGen Project" consists of three steps: "Oxygen-blown IGCC demonstration" (Step 1), "IGCC demonstration with CO₂ capture" (Step 2), and "IGFC*2 demonstration with CO₂ capture" (Step 3).

In April of 2016, we began Step 2, that is, "IGCC demonstration with CO₂ capture" (hereinafter, "this project"), and we have been proceeding with preliminary preparation such as design.

Today, we began construction on the main equipment of the CO₂ capture unit.

In this project, we plan to attach the CO₂ capture unit to the IGCC plant which is currently undergoing demonstration tests. Also, we plan to start demonstrations regarding its performance, operability, reliability, and economic feasibility as a system for oxygen-blown IGCC power generation with CO₂ capture from 2019.

The IGCC power generation system with CO₂ capture that we aim to establish in this project will make it possible in the future to significantly reduce the amount of CO₂ emitted through coal-fired power generation, and will be combined with CO₂ transportation/storage technology being developed separately from this project.

Also, Step 1, that is, "Oxygen-blown IGCC demonstration," began demonstration tests on March 28, 2017, and is proceeding as planned to verify the basic performance, coal variety compatibility, plant reliability, plant controllability and economic feasibility by FY2018.

From now on, we will proceed assuredly with construction placing priority on ensuring safety and preserving the environment, as well as steadily proceed with our project in order to achieve the goal of the "OSAKI CoolGen Project."

*1: Integrated Coal Gasification Combined Cycle
*2: Integrated Coal Gasification Fuel Cell Combined Cycle

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This demonstration project is being implemented within the grounds of the Osaki Power Station of The Chugoku Electric Power Co., Inc.

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[Outline of this demonstration testing system]

[3D illustration of the CO₂ capture unit]