

# News Release

New Energy and Industrial Technology Development Organization  
Osaki CoolGen Corporation

March 30, 2017

## **NEDO Launches Demonstration Test of an Oxygen-Blown IGCC - First stage of the “Osaki CoolGen Project” begins -**

NEDO, along with Osaki CoolGen Corporation, a NEDO award recipient, has launched a demonstration test of an oxygen-blown integrated coal gasification combined cycle (IGCC) system as the first stage of the integrated coal gasification fuel cell combined cycle (IGFC) demonstration project called the “Osaki CoolGen Project” that aims to establish the ultimate high-efficiency coal-fired power technology.

The facility for the demonstration test has been built in Osakikamijima-cho in the prefecture of Hiroshima. It will operate a 1,300°C-class gas turbine by converting pulverized coal into gas in a gasifier and simultaneously operate a steam turbine using the heat generated from the gas turbine and the gasifier to generate electricity from the combination of both turbines. The demonstration test will work to verify the performance, reliability, and economic efficiency of the coal-fired power system, with the aim of achieving a net efficiency of approximately 46% in a commercial system using a 1,500°C-class gas turbine.



**Figure. A view of the oxygen-blown IGCC demonstration test power plant (on the premises of the Chugoku Electric Power Co., Inc. Osaki Power Plant facility)**

**For more information, please contact:**

(Regarding this News Release)

NEDO Environment Department

Contact Persons: Takahashi, Nakamoto, Zaima

Tel: +81-44-520-5293

OSAKI CoolGen Corporation General Affairs & Planning Department

Contact Persons: Shimote, Shiiya

Tel: +81-846-67-5250