



TOHOKU ELECTRIC POWER CO., INC.

July 2, 2012

Hachinohe Thermal Power Station Unit 5 Commence Full Operation

Tohoku Electric Power, today began full operation of Hachinohe Thermal Power Station Unit 5 (located in Hachinohe City, Aomori Prefecture with an output 274MW) which had been in test operation since June 22, 2012.

We are making efforts to restore our thermal power stations located in the pacific coastal region which has been shut down due to extensive damaged by The Great East Japan Earthquake. And we are introducing some generators which can be installed in a short time. Hachinohe Thermal Power Station Unit 5 was constructed with a simple cycle gas turbine system.

The building construction work was implemented at midwinter, so we were often hit by snowstorms and needed to work in accumulated snow. Making the best use of inventiveness on-site, we were able to complete the construction without accident or disaster. Moreover, in order to commence commercial operation as soon as possible to secure power supply, we made effort to speed up the process by working day and night. In addition to this effort, the understanding and cooperation of the national government and local governments and residents enabled us to start commercial operation today.

We constructed five impromptu power plants after the earthquake. Today, all these power plants are in full operation.

We are going to make every effort to stabilize units in operation and secure power supply.

From an environmental viewpoint, this unit will be converted to a high efficiency combined cycle unit by adding heat recovery steam generator, steam turbine and electric generator. The upgrading work was started on June 1, 2012. Converted unit will be in full operation in August 2014.

(Overview of Hachinohe Thermal Power Station Unit 5)

Location: 1-1, Kawaragi Uheekawara, Hachinohe City, Aomori Prefecture

Output: 274 MW

Fuel: Gas Oil

item	unit	Simple-cycle gas turbine unit	Combined-cycle unit
Turbine	-	Gas turbine	Gas turbine, Steam turbine
Fuel	-	Gas oil	Gas oil (Gas)
Output	MW	274	394 (416)
Efficiency	%	Approx. 33	Approx. 48 (Approx. 55)
Test operation	-	22 June, 2012	March 2014
Full operation	-	2 July, 2012	August 2014

Output value is under the temperature - 5 °C

(projected value when gas is used as fuel)