

Commencement of Commercial Operation of New No. 2 Unit
at Isogo Thermal Power Station

The New No. 2 Unit at Isogo Thermal Power Station (location: Isogo-ku, Yokohama, Kanagawa Prefecture, output: 600MW) which Electric Power Development Co., Ltd. had been constructing since October 2005 commenced commercial operation yesterday at 18:00 after completing trial operations and a voluntary inspection of the unit.

This brings to completion the transformation of Isogo Thermal Power Station to a compact, urban coal-fired thermal electric power plant that achieves the world's highest standard both in terms of decreasing the environmental burden and increasing energy efficiency. Placing top priority on safety, the revamped Isogo Thermal Power Station will contribute to the stable supply of electric power in the metropolitan and surrounding areas.



Isogo Thermal Power Station
New No. 2 Unit (left) and New No. 1 Unit

After commencing operation in the late 1960s and remaining on line for more than 30 years as a dedicated domestic coal-fired power plant (output: 265MW x 2 units), replacement construction started in 1996 to achieve three objectives: (1) to improve the environment, (2) to ensure electric power supply security and to enhance the reability of power supply reliability, and (3) to replace old power generation facilities.

The commencement of commercial operation of the New No. 2 Unit at Isogo Thermal Power Station brings the total output capacity of Electric Power Development Co., Ltd.'s combined electric power generation facilities to the following:

Hydroelectric Power: 59 power stations	8,560.5MW
<u>Thermal Power: 8 power stations</u>	<u>842.45MW</u>
Total	1,698.5MW

<<History Overview of Isogo Thermal Power Station>>

July 1996	Approval of the Electric Power Development Adjustment Council
September 1996	Start of construction work of the New No.1 Unit
April 2002	Putting into commercial operation of the New No.1 Unit
March 2004	Old No.1 and No.2 Units removed
October 2005	Construction of New No.2 Unit started
July 2009	Putting into commercial operation of the New No.2 Unit

<<Facility Specification>>

Item	New No.1 & No.2 Units	Old No.1 & No.2 Units
Output	No.1 Unit 600 MW No.2 Unit 600 MW Total 1,200 MW	No.1 Unit 265 MW No.2 Unit 265 MW
Fuel	Domestic and Overseas coal	Domestic coal
Coal storage	Indoor coal(silo)	Outdoor coal
Boiler	Tower type once-through boiler	Nature circulation drum type boiler
Fuel gas denitri- fication system	Dry-type flue gas denitrification system(Selective Catalytic Reduction of Nitrogen Oxide with Ammonia) Denitrification efficiency: No.1 Unit 87.5%/No.2 Unit 91.9%	—
Dust precipitator	Electrostatic precipitator Dust collecting efficiency: No.1 Unit 99.94%/No.2 Unit 99.97%	Electrostatic precipitator Dust collecting efficiency:99.75%
Flue gas desulfuri- zation system	Dry-type flue gas desulfurization system (Activated Coke Adsorption Process)Desulfurization efficiency: No.1 Unit 95.0%/No.2 Unit 97.8%	Wet-type flue gas desulfurization system(Lime Gypsum Process) Desulfurization efficiency:89%
Smoke stacks	200m(Centralized type of two stacks)	No.1 Unit:120m No.2 Unit:140m
Coal ash use	Coal ash utilization rate:90%or more (Amount generated :380,000tons/year)	Coal ash utilization rate:90%or more (Amount generated :170,000tons/year)
Proportion of greened to total area	20%	15%
Port facilities	Coal unloading warf x 1 Coal ash loading-Oil unloading pier x 1	Coal unloading warf-Oil unloading pier x 1