



## Preparation of Abstract for IERE TIS-Asia Meeting 2014

**Title** J-POWER's Activities on keeping performance of aged existing coal-fired power plant  
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**Keywords : (several keywords to be listed)**

J-POWER, Takasago Thermal Power Station, coal-fired, high thermal efficiency, maintenance

**Abstract**

J-POWER is leading company for coal-fired and hydroelectric power generation, and currently operates 7 coal-fired power stations across the country with the largest capacity of 8.41GW in Japan, about 21% of the total installed capacity of Japan's coal-fired power station, and 59 hydropower stations with the second largest capacity of 8.56 GW, about 20% of the total installed capacity of Japan's hydropower station.

The Takasago Thermal Power Station that is introduced here is a coal-fired power station built to secure the demand for domestic coal, with the No.1 Unit starting commercial operation in July 1968 and the No.2 Unit in January 1969. As of 2013, this station has seen 44 years of service. The past decade has also been a period of transition to thermal power that burns overseas coal because of the shrinking of domestic coal mining.

This power station has been striving to provide a stable supply of electric power, keeping lifetime availability that is 72%, and maintaining high gross thermal efficiency (HHV base) over 38% for over 40 years since it started operating. The reason maintained a high efficiency is as follows: everyday appropriate management thermal efficiency, predictive maintenance before equipment damage, and equipment replacement as necessary.

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