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## **SINGAPORE POWER ANNOUNCES COMPLETION OF SINGAPORE'S FIRST COMBINED CYCLE PLANT**

Singapore Power's operational efficiency is further enhanced with the completion of Singapore's first combined cycle plant at the Senoko Power Station today



The S\$450 million contract to upgrade Senoko Power Station's four existing gas turbines will result in higher operational efficiency for Singapore Power. Two of the gas turbines have now been fitted with two heat-recovery steam generators and one steam turbine-generator. As a result, some 60% of additional power can be generated without using additional fuel, enough to power three Toa Payoh towns.

Combined Cycle Plant No. 1 is one of two blocks of a combined cycle plant which recovers waste heat to operate another steam turbine-generator to generate additional power.

When fully completed, the combined cycle plant comprising two 424 megawatts blocks will be the most efficient plant in the system. Its net efficiency of 45.9% on higher calorific value is about 10 percentage points higher than existing thermal plants.

"The combined cycle plant underlies Singapore Power's strong commitment to invest in state-of-the-art technology and equipment to improve operational efficiency to better serve our customers," said BG Boey Tak Hap, SP's President and Chief Executive Officer at the ceremony to mark the completion of the first block of the Combined Cycle Plant.

The first combined cycle block was completed within two years as scheduled. Actual construction time took only 18 months. Work has to be carried out on an existing running plant with underground services and limited lay down area. The second block is scheduled for completion in January 1997.

The ceremony also marks the completion of the last electrostatic precipitator to be installed for Senoko Power Station's eight thermal plants. An electrostatic precipitator is able to remove up to 95% of ash and dust particles, to achieve clean emission through the chimney.

With the installation of electrostatic precipitators, the thermal plants emit less than 10 milligram per normal metre cube of exhaust gas - well within the Ministry of the Environment's guidelines and international emission standards.

"Singapore Power does not compromise on matters of public health and environmental protection in its operations. The installation of electrostatic precipitators is a clear manifestation of our commitment as a responsible corporate citizen," added BG Boey.

The combined cycle block and use of electrostatic precipitators reinforce Singapore Power's position as the country's premier provider of clean and reliable power supply.