

# A Technical Visit to TNB Stesen Janakuasa Sultan Azlan Shah, Manjung

OIL, GAS AND MINING TECHNICAL DIVISION



by Ir. Mohammad Nazri bin Mustafa

**THE** Oil, Gas and Mining Technical Division of IEM organised a technical visit to Stesen Janakuasa Sultan Azlan Shah Manjung of Tenaga Nasional Berhad (TNB) on 14 May 2012. About 30 people from various backgrounds participated in the visit. The chartered bus left IEM building at approximately 6.00 a.m. for Manjung. It was a wonderful morning journey, as the participants had a chance to enjoy the panoramic view along the North-South highway.

Upon arrival the group was warmly greeted by TNB officials and was given a briefing on the overall facilities and operation of the power plant complex. TNB has shown excellent achievement in embracing their motto of "Technology in Harmony with Nature". A comprehensive Environmental Impact Assessment had been performed for the project to protect the surrounding mangrove area including preservation of flora and fauna, fish and animal habitats within the area. The surrounding fishing ground is being preserved for the community as the result of a responsible effort by TNB in managing the development of this area.



An Engineering, Procurement, Construction and Commissioning (EPCC) consortium which consisted of Alstom Power System SA, Alstom (Wuhan) Engineering & Technology Co. Ltd., Alstom Services Sdn. Bhd., China National Machinery Import & Export Corp and CMC Machipex Sdn. Bhd. was formed to build the multi-billion ringgit 1000 MW coal-fired power plant. The plant is based on supercritical technology and includes the installation of one steam turbine, one supercritical boiler, coal-handling and ash-handling equipment, water treatment system, air quality control system, building structures as well as waste water treatment system.

At the time of the visit, construction of foundations and underground services was in progress and in accordance with the project schedule. Overall, the visit was beneficial to the IEM participants in understanding the overall construction and operation of a power plant as well as the issues and challenges faced by TNB and the contractors in executing such a massive and important national project. ■

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