

# PT. PLN Held Trial Coal Slurry-Based Power Plant in Karawang

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DGNREEC – PT. PLN (Persero) build a coal slurry-based power plant which has being the pilot project with capacity of 500kW in Karawang, West java. This power plant will be use for supply the electricity in the island on this year.

As written in Electricity Supply Business Plan of PT. PLN 2015-2024, in the long term, that electricity company with ‘red plate’ (PT. PLN) is planning to implement the power plant with coal slurry based in small system which is widespread, especially in Papua and Maluku region.

Coal slurry is used for small scale power plant replacing the diesel power plant for basic load. The utilization of liquid coal as power plant fuel that eco-friendly and also easy to be distributed due to able to be stored in the tank.

Based on Handbook of Energy and Economic Statistic of Indonesia 2013 that be launched by MEMR on 2013, the Indonesia coal resource is achieve 119.4 billion ton that widespread and especially in Kalimantan is about 55.8 billion ton, in Sumatera is about 63.2 billion ton, and other regions 0.4 billion ton.

Coal reserve reported is about 29 billion ton with details for Kalimantan is about 16.3 billion tons coal, Sumatera is about 12.7 billion ton. Due to the lot of availability of coal, assumed that coal always be available for power plant and it written in the RUPTL.

There are approximately 22% of coal in Indonesia is low rank with heat content less than 5,100 kcal per kg. Meanwhile most of the coals or 66% of coals have medium qualities such as between 5,100 kcal per kg and 6,100 kcal per kg. The remains are 12% of high quality with heat content between 6,100 kcal per kg to 7,100 kcal per kg.