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Geothermal Development in Indonesia

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Abstract

Indonesia has a potential of geothermal energy with the capacity up to 29,000 MW, however, by the end of 2012 only around 1,300 MW has been operated. The geothermal power plant currently has share of 3.5 % from the total national power plant, while the electricity produced (kWh) from geothermal contributes 9.0 TWh or 5% from the total national electricity. Therefore, Indonesia should increase and accelerate geothermal development.

In the policy, the government of Indonesia has established the policy intended to accelerate the geothermal development, such as Presidential Decree for the Second 10,000 MW Fast Track Program (FTP II), which are 4925 MW geothermal power plants. The PLN policy also supports the harnessing geothermal energy resource by developing geothermal not based on least cost approach but based on the readiness of the related project development and the electricity system condition. Nevertheless, the private sector should also seriously participate since based on the regulations, the geothermal power plants in Indonesia will be mostly developed by the private developer. Several constraints have been identified and some of them have been solved. It has been realized that to develop geothermal requires attention and work hard together among all stake holders.