

DARAJAT



Darajat III

Darajat II

Darajat I

The Darajat Geothermal Resource which is located in District Pasirwangi, Garut, West Java, is on the flanks of Mt Kendang, approximately 40 km south-east of Bandung, the major provincial city of the region, and 150 km south-east of Jakarta. The resource is within a volcanic range containing centres of relatively recent activity; and vigorous surface displays of geothermal activity occur within the area. The resource is located in steep and rugged terrain, some 2000 metres above sea level. The Darajat geothermal field is a substantial high quality resource producing dry steam at the wellhead; and includes some very large wells (40 MW capacity from one well - the worldwide average is 5-10 MW/well). The resource is one of only a few dry steam fields in the world.

Daradjat I: In December 1984 Amoseas signed a JOC with Pertamina and an ESC with PLN to develop up to 330 MW of geothermal energy within a 56,650 hectare area in Daradjat, West Java. Amoseas, which acts as the operator for the project, confirmed a resource sufficient to generate a 55-MW power plant and with potential for at least 400 MW. After investing US \$55.2 million for the construction of 55-MW power plant, PLN started commercial operation in November 1994, with steam supplied by Amoseas.

Daradjat II: In 1995 Amoseas re-negotiated and amended the ESC that enabled the company to build all the future units at Darajat. This enabled Amoseas to plan Unit II and drill 17 more development wells in anticipation of further development. Amoseas initiated construction of unit II in 1997, but the government suspended plant construction in 1998. As a result of contract renegotiations, PLN and Amoseas reached a final long-term solution in April 2000, with price of electricity reportedly dropping to US \$0.0420/KWh from US\$0.0695 in the original ESC. This unit is owned by Amoseas which was then become Chevron Geothermal Indonesia and the installed capacity for this unit is 94 MW.

Darajat III is owned by Chevron Geothermal Indonesia and PT Pertamina (Persero). This plant becomes the largest geothermal energy project in the world enrolled in the program of Clean Development Mechanism (CDM), an instrument of the Kyoto Protocol to encourage implementation of the reduction of greenhouse gas impact of production activities.

Since August 2007 PT Chevron Geothermal Indonesia has been officially operating Darajat III. Electricity from the plant is connected into the Jawa-Madura-Bali (Jamali) electricity system owned by PLN.