

PLTP DIENG – GEO DIPA ENERGI



Dieng, located in the province of Central Java, is one of PT Geo Dipa Energi's Geothermal Power Plant (PLTP) project locations. The mountainous contour and the existence of various types of geothermal manifestation such as hot springs, solfatara, fumarola and alteration rocks indicates that Dieng is a potential location to be developed as a geothermal energy source. The total potential energy within the Dieng Geothermal Field is estimated at 300 MWe.

Currently, Dieng Unit 1 project, successfully operated by PT Geo Dipa Energi with a capacity of 1x60 MWe, has been connected into the Java-Madura-Bali interconnection system. Currently activities are being conducted to fulfill the target through capability upgrades and development of Dieng Unit 2 and 3 projects, each with a capacity of 60 MWe.

Potential Geothermal Field at Dieng Plateau

Dieng Plateau is a complex of volcanoes, vast plains shaped with a length of approximately 14 km, width of 6 km and extends from the southwest – southeast located in Central Java. Dieng Plateau is derived from an old volcano (Mount Prau) which decreased dramatically (dislocation) by fracturing the northwest and southeast. In the section that collapsed appeared small mountains those are: Mt Alang, Mt Nagasari, Mt Panglimunan, Mt Pangonan, Mt Gajahmungkur and Mt Pakuwaja.

The regional geology Dieng volcanic complex area is covered by quaternary age sediments in the form of lava flows, pyroclastic, phreatic deposits, lahar deposits, the sediment surface, and the eruption of Mount Sundoro.

Geothermal in this area has been cultivated by PT Geo Dipa Energi for power generation, with a capacity of 1 x 60 MW is sold to PLN and have been integrated in the system of Madura, Java Bali interconnection network. While most of the other potential has not yet been exploited.

History

In December 1994, Himpuna California Energy Limited (HCE), a joint venture between PT. Himpuna Enersindo Abadi and California Energy International of the U.S. signed a contract to build the Dieng geothermal project. The contract was for a total power capacity of 150 MW, with total investment of USD 192 million to be completed by 2001. The plant was planned as 4 units, Unit I, with the capacity of 60 MW, was certified for commercial operation in July 1998. All construction, exploration activities and operations for Unit II were suspended in 1998. From the 48 exploration and development wells drilled HCE identified the field's potential as 350 MW.

In November 1999, the Overseas Private Insurance Corporation (OPIC) and a consortium of private insurers paid USD 290 million to Mid-American, which acquired California Energy, under separate contracts of insurance covering the U.S. company's equity investments in Dieng and Patuha. OPIC and the private insurers determined that compensation was payable under their respective contracts of insurance after an international arbitral panel awarded the project companies a total USD 575 million against the Government of Indonesia.

On August 27, 2001, the Indonesian Government and OPIC representatives signed a settlement agreement transferring OPIC's shares in the Dieng and Patuha project to the Indonesian Government. A Recommissioning Loan Agreement and Note also provided OPIC funding to recommission the Dieng Geothermal project's 60 MW unit.

The project was then continued by PT Geo Dipa Energi, a venture between PT PLN (Persero) and PT Pertamina (Persero). Geo Dipa Energi is currently 67% owned by Pertamina and PLN 33% stake

History is quoted from US embassy Jakarta

Photo : <http://www.geodipa.co.id/>

Type	Geothermal Power Plant
Area	Karangtengah, Batur, Dieng, Banjarnegara – Central Java
Kind of Fuel	Geothermal
Power Capacity	60 MW
Owner	PT. Geo Dipa Energi
Shareholders	The Government 67% and PLN 33%
Activity Since	2003
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