

IMPLEMENTATION PROCEDURE FOR GEOTHERMAL POWER PLANT IN INDONESIA

By

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, not material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

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Indonesia right now is facing the electricity crisis because the mismanagement in the use of prime energy. Indonesia electricity production in 2005 is around 39,000 MW and 85% of the electricity is generated from fossil fuel. The oil price in 2001 is 20\$/barrel but it has increased and reach the price of 140\$/barel on June 2008 and cause the instability of electricity in Indonesia. This thesis discusses about the implementation procedure of indirect use of geothermal energy to produce electricity in Indonesia. The procedure to establish a geothermal power plant is including the survey on green area, the tender to get IUP, the exploration, and PPA arrangement. This thesis also discusses about the advantages of geothermal power plant and what it can do to help solving the electricity crisis by using all the advantages of geothermal power plant while Indonesia has 27,000 MW (40% worldwide) potential of geothermal energy that only use around 1,000 MW of its proven potential until now.

DEDICATION

I dedicate this thesis to Indonesian people, my family, my advisors and all of my colleagues at SGU.



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