

PRAKIT RUNTAKIT : ECONOMIC DECISION MAKING ON THE INVESTMENT OF ELECTRICAL POWER GENERATION FOR SALE BY SUGER MILLS. THESIS ADVISOR : ASST.PROF. SUTHAS RATANAKUAKKANGWAN, D.E.S.S. (Toulouse), CO.ADVISOR : ASSO.PROF. KHOONAVUTHI DAMRONGPLASIT, Be.Me., 259 PP.
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In this thesis, an investigation has been made on technical and economic evaluation of the decision making on the investment of electrical power generation for sale by taking one sugar mill as a case study. This study looked at four types of alternatives namely 1. Selling bagasse 2. Investment of 1 MW export 3. Investment of 5 MW export and 4. Investment of 10 MW export.

For the case study considered here-The investment of 1 MW export option of an example sugar factory uses exsisting factory boiler and turbine generator equipment. Investment is required in protective equipment. The investment of 5 MW export option uses exsisting factory boiler and turbine generator equipment plus new interconnection facilities. The investment of 10 MW export option uses new boiler, new turbine generator and interconnection facilities.

The study on technical evaluation has shown a positive result of the investment options. The potential of waste fuel is adequate for each of the export options.

The study on economic evaluation has been found that the investment of 1 MW export option is the most attractive.