

## Peramalan risiko dan return to menyediakan listrik di batam dengan menggunakan frontier efisien = Forecasting risk and return to provide electricity in batam by using efficient frontier

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### Abstrak

[<b>ABSTRAK</b><br>

Listrik adalah penggerak utama dari aktifitas ekonomi suatu negara Di Indonesia bahan bakar dari sistem kelistrikan berasal dari sumber daya alam Batam yang mempunyai posisi strategis di antara daerah lain Indonesia memiliki rasio elektrifikasi yang tertinggi karena Batam terhubung dengan gas pipa yang membuat Batam memiliki pasokan gas untuk menghasilkan listrik and ke depan untuk memenuhi permintaan Singapura untuk mengekspor listrik Tesis ini mendiskusikan untuk memperkirakan risiko dan keuntungan dalam menghasilkan listrik di Batam untuk keperluan dalam negeri dan untuk ekspor ke Singapura dengan menggunakan Efficient Frontier Kegiatan ekspor listrik ke Singapura akan menyempurnakan sistem kelistrikan di Indonesia meningkatkan nilai keuntungan dari pembangkit listrik di Indonesia dan menciptakan lapangan kerja baru di Indonesia serta memaksimalkan penggunaan sumber daya alam untuk keperluan dalam negeri Kata Kunci Kelistrikan bahan bakar pembangkit listrik risiko dan keuntungan efficient frontier.

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<b>ABSTRACT</b><br>

Electricity is the main driver of the economic activity in a country In Indonesia the fuel of electricity system is still coming from the natural resources Batam has strategic position among other areas in Indonesia to have the highest electrification ratio as it has connected with the gas pipeline which enable to supply gas to Batam for generating electricity and further to meet the request by Singapore to export electricity This thesis discussed on the forecasting risk and return to provide electricity in Batam for domestic purpose and to export to Singapore by using Efficient Frontier Exporting electricity to Singapore will improve the electricity system in Indonesia increase the profitability of the power plant in Indonesia create employment in Indonesia and maximize the natural resources for domestic usage Key words Electricity fuel power generation risk and return efficient frontier;Electricity is the main driver of the economic activity in a country In Indonesia the fuel of electricity system is still coming from the natural resources Batam has strategic position among other areas in Indonesia to have the highest electrification ratio as it has connected with the gas pipeline which enable to supply gas to Batam for generating electricity and further to meet the request by Singapore to export electricity This thesis discussed on the forecasting risk and return to provide electricity in Batam for domestic purpose and to export to Singapore by using Efficient Frontier Exporting electricity to Singapore will improve the electricity system in Indonesia increase the profitability of the power plant in Indonesia create employment in Indonesia and maximize the natural resources for domestic usage Key words Electricity fuel power generation risk and return efficient frontier;Electricity is the main driver of the economic activity in a country In Indonesia the fuel of electricity system is still coming from the natural resources Batam has strategic position among other areas in Indonesia to have the highest electrification ratio as it has connected with the gas pipeline which enable to supply gas to Batam for

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