

UNIVERSITI TEKNOLOGI MARA

**ASSESSING HYDROPOWER POTENTIAL AS AN
ALTERNATIVE ENERGY IN BUKIT BESI**

AHMAD FARRIS ISYRAF BIN AHMAD SABRI

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ABSTRACT

Tasik Puteri in Bukit Besi is a man-made lake that occupies approximately 131 hectares. The lake's outflow is focus at one point and varies throughout the year, depends on the rainfall rate. The outflows drops approximately 15 meters. It is difficult to fully utilise the energy from the Tasik Puteri outflow since Terengganu has a rainy season at the end of the year and a sunny season at the beginning of the year. The objectives of the project are to determine the estimated electricity power potential of the lake and to propose estimated electricity power potential for this micro-hydropower plant. In doing so, desk literature review is conducted. It is expected from this research, the energy power potential from this study can be determined . The expected results for this project would be estimated electricity power potential of the lake and the concept proposed for the development including the type and capacity of the model. The range of power to be produced from 100kW to 250kW.

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