

PROJECT DATA

Energy in Development

CLIENT	PNG Sustainable Energy Limited
PROJECT LOCATION	PNG
DATE OF PROJECT	2004/2005
SERVICES PROVIDED	<ul style="list-style-type: none">• Sustainable Energy Options Study



Access to cost effective and sustainable energy supplies is crucial to development and poverty alleviation. The UNDP states that

“...energy interacts with all aspects of social and economic development, including livelihoods, water, agriculture, environment, population, health, sanitation, education, job creation and gender related issues. Modern energy services are a pre-requisite for increasing productivity and improving livelihoods.”

In rural PNG, many villagers obtain light from kerosene lamps, use firewood for cooking, and rely on distributed diesel generators for most electricity supplies. These options can be expensive, can have negative health impacts, and can be unreliable.

Hydro Tasmania Consulting undertook a study into Sustainable Energy Options in New Britain, New Ireland, and the Western Province of mainland PNG. The review investigated current energy usage patterns, future requirements, and the social and economic environment. Using GIS tools to map the renewable energy resources, diesel prices, population centres and socio-economic indicators, we were able to identify the most cost-effective technology development paths for each of the key centres in most need. These included a mix of coconut oil use, biomass gasification, battery charging, and solar power.



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