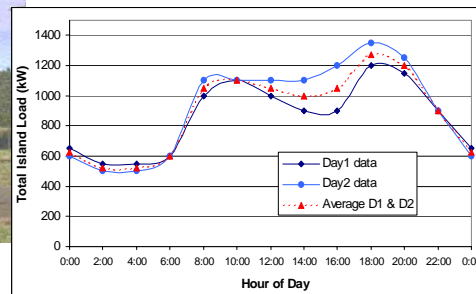


# PROJECT DATA

## Remote Renewable Energy Study

<b>CLIENT</b>	Australian Greenhouse Office
<b>PROJECT LOCATION</b>	Norfolk Island
<b>DATE OF PROJECT</b>	2003 - 2004
<b>SERVICES PROVIDED</b>	Renewable Energy Options Assessment



Electricity on Norfolk Island is currently supplied by a 6 MW diesel-fired power station. The Australian Greenhouse Office and Norfolk Island Administration identified an opportunity for cost-effective integration of the existing system with renewable energy. Previous analysis had been completed on specific renewable energy technologies, but a comprehensive resource assessment and cost analysis had not been completed. This project sought to quantify all renewable resources including biomass, wind, solar, wave, geothermal and hydro, the suitability of various renewable technologies, and to subsequently conduct a pre-feasibility analysis of the two most viable options. The cost-effectiveness and impact of Demand side management was also reviewed.

Hydro Tasmania Consulting led the study team, which included specialist sub-consultants for geothermal, biomass and wave power analysis. This broad-based team was able to provide comprehensive and credible resource assessments, combining direct measurements with computer-based modeling. Hydro Tasmania Consulting's operational experience in renewable-integrated remote island power station operations was critical to identifying the most viable and suitable projects. New and innovative GIS-based tools were developed for analysing solar access and producing resource maps.

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