

Renewable energy consultants – sustainable, innovative technology

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Renewable energy refers to energy sourced from renewable sources such as solar (thermal and photovoltaic) wind, ocean (tidal and wave), geothermal and biomass.

In most cases the renewable energy resource is converted into electricity before use by an end consumer, but it can also be used in transport. A key attraction of renewable energies is their low carbon footprint.

As with conventional electricity plants, financial impact and market impact studies can be carried out utilising general equilibrium economic modelling - using Tasman Global - and electricity market modelling - using PowerMark. Similarly, it is possible to develop long and short run marginal cost paths over time for renewable energy technologies

Renewable energy technologies are in the main less mature than conventional energy systems. They are still relatively high up on the cost curve and low down on the penetration curve. Many governments have put in place a range of policies and support measures for the sector, such as research and development, co-funded demonstration programs and renewable energy targets.

ACIL Tasman has the capacity to analyse and evaluate low and zero emission technologies, emissions abatement strategies and to review complementary measures and carbon price models.

Examples of the kinds of projects undertaken by ACIL Tasman include:

- review and analysis of renewable energy support measures and programs
- economic and market analysis associated with proposed renewable energy projects
- analysis of generation costs over time
- supporting analysis for proponents seeking to access government support measures for R&D or demonstration.

See our energy and resources case studies.

Contact ACIL Tasman for more information on renewable energy consulting.