

Sustainable energy

Connecting people and places

Take a look at our **STRATEGIC VISUALISATION TOOL** to learn about Queensland's scientific capability in new industries. The tool links with the Queensland Science Capability Directory that provides information on all the research centres in the state. You can also connect with our sector leads.

Visit www.qld.gov.au/ScienceEmergingIndustries



Queensland is a great place to be developing, producing and operating a sustainable energy market: abundant sunshine, large amounts of land and significant know-how of the integration and generation of sustainable energy.

Professor Ian MacKinnon
Queensland University of Technology

Queensland's competitive advantage

Our state is the ideal research and development (R&D) playground for the future of the sustainable energy market. Approximately 300 days of sunshine a year, long coastlines with predictable tidal forces and an abundance of open land provide the ideal environment for a strong and effective renewable energy sector.

This geographical benefit is combined with a legislative framework that facilitates private sector and individual investment through tax incentives and effective and supportive policy. Current renewable projects are already on track to provide over a third of the domestic need by 2025, showcasing the established community awareness and confidence in the sustainable energy market. This innovative development is supported by five recent cooperative research centres funded

between government and industry, with a combined investment of more than A\$1 billion. Fortunately, our universities provide this fast-growing sector with some of the best graduates in sustainable engineering and management in Australia.

R&D capabilities

Queensland's research institutions are at the forefront of developing cutting-edge renewable energy technology.

Queensland's universities and public sector are intricately connected throughout Australia and the world, providing their R&D expertise for the development of future fuels and batteries, revolutionising the energy export market, and pioneering the blue economy market.

Our local expertise supports both advanced manufacturing and traditional manufacturing capabilities to support renewable supply chains. Additionally, Queensland is world-leading in socio-psychological theories of acceptance and stakeholder engagement.

The growing number of individuals engaging in the renewable energy sector highlights the deep understanding of customer preferences to new energy alternatives in Queensland. Queensland's research base is diverse, with strengths in production, distribution, and storage, with strong capabilities in green hydrogen, energy efficient buildings and biofuel.



Queensland
Government

Sustainable energy

Queensland—a great place to invest and do business



A\$7.8 billion

in large-scale renewable energy investment in Queensland since 2015



1 in 3 houses

in Queensland have solar panels installed



A\$15 million

to develop the hydrogen industry in 2019–20



#1 graduates

in sustainable development in Australia



Case study

Powering North Queensland

The Queensland Government is partnering with regional industry to develop the North Queensland region through strong investment in the renewable sector. For example, the Queensland Government has committed A\$145 million to establish three renewable energy zones across northern, central and southern Queensland. The government has also announced the establishment of a A\$500 million Renewable Energy Fund for government investments in commercial renewable energy projects and supporting infrastructure.

This investment will allow companies to use the abundance of natural energy sources in the region while overcoming the costs associated with long-distance energy transmission.

Eleven novel solar projects, once operational, will provide energy to 363,000 homes, enabling a local and completely sustainable energy source for remote communities in Northern Queensland.

For more information about Queensland's science and innovation capabilities, please visit:



Visualisation tool:

www.qld.gov.au/ScienceEmergingIndustries

Email:

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