



CANBERRA
REGION

CITY · COAST · ALPINE · TABLELANDS

▶ INVESTING IN THE
CANBERRA REGION

RENEWABLE ENERGY

RENEWABLE ENERGY IN THE CANBERRA REGION

With world-leading energy targets, reliable energy demand, suitable land and world-class research capability and infrastructure, the Canberra Region is ideally positioned as one of Australia's fastest growing renewable energy investment regions.

The Canberra Region abounds with renewable resources – particularly wind and sun. Diverse and strategically located, the Canberra Region boasts a wealth of suitable locations for renewable energy projects and world-class research capabilities.

The ACT's nation leading commitment to 100 per cent renewable energy generation by 2020, supported by similar regional targets and the success of large-scale wind and solar projects provide a strong incentive for renewable energy investment in the Canberra Region.

The ACT Government has invested in supporting a Renewable Energy Precinct for business and entrepreneurs to work collaboratively to develop the local industry, and is leading the country in the implementation of cost reflective energy network tariffs, into effect from 1 July 2017. This commitment to renewable energy provides a reliable demand for energy in the Region.

Similarly, the NSW Renewable Energy Action Plan supports the national target of 20 per cent of energy generation by renewable energy by 2020.

The Canberra Region is home to the [South East Region of Renewable Energy Excellence](#) – a renewable energy industry cluster which supports a robust renewable energy industry capacity that attracts and sustains a strong flow of new project investment into the Canberra region.

THE CANBERRA REGION
TAKES IN SOUTH EAST NSW
AND ACT, INCLUDING
SOUTH-WESTERN SLOPES,
SOUTHERN TABLELANDS,
NATION'S CAPITAL, SOUTH
COAST, SNOWY
MOUNTAINS, AND NSW HIGH
COUNTRY.

Photon Energy Australia is proposing
a 316 MWp solar power plant in
Gunning

**The Canberra Region is leading
Australia in renewable energy**

The ACT is on track to reach **100%**
renewable energy by **2020**

SOLAR POWER

The ACT is targeting next generation solar technology, including energy storage systems, which will develop Canberra as an internationally recognised centre for renewable energy innovation and investment.

The ACT Solar Auction initiative has been designed to attract large scale solar projects in the Canberra Region, with successful projects including:

- **Royalla Solar Farm** – commissioned in August 2014, with a 20 MW generator is the largest photovoltaic power station in Australia producing approximately 38,000 MW hours of energy annually.
- **Zhenfa Mugga Lane Solar Park** – 13 MW solar farm, with panels attached to ground-mounted tracking units to enable panels to track the sun over the course of the day.
- **OneSun Capital Solar Farm** – 10 MW facility.
- An 11.18 MW, **34 hectare solar farm** in Williamsdale, beside Angle Crossing Road and the Monaro Highway, has also recently been approved by the ACT Government.
- **Denman Prospect** – a whole suburb of houses requiring mandatory solar power



South East Region of Renewable Energy Excellence is an industry cluster supporting a robust renewable energy capacity

Tathra Community Solar Farm was one of the first community solar farms in Australia demonstrating regional commitment to renewable energy

The Canberra Region is targeting next generation solar technology investment

According to the 2016 *Independent Review into the Future Security of the National Electricity Market*, the ACT contains over 150,000 domestic solar power installations – 10 per cent of Australia's total.

The ACT battery storage program is one of the largest in the world, helping fund battery storage to more than 5000 Canberra homes.

This opportunity reflects significant development and investment opportunity for the Canberra Region, and demand for solar energy is increasing as technological advancements render installations less expensive and more consumer accessible.

WIND POWER

The Canberra Region is demonstrating fast growth in wind power investment.



The Capital Wind Farm, located in Bungendore, was completed in 2009 and commenced commercial operation in January 2010. It consists of 67 wind turbines, with a total capacity of 140.7MW. During its construction, 120 people were employed, with 15 ongoing jobs for service and maintenance.

The Ararat Wind Farm in Victoria is also now producing renewable energy as part of the ACT Government's 100 per cent renewable energy target. Ararat's 75 wind turbines will generate about 272,000 MW hours of renewable electricity each year – enough to power around 37,000 homes.

A further 11 windfarms are constructed, approved or awaiting approval in Upper Lachlan Shire Council.

OTHER RENEWABLE SOURCES

Significant potential for renewable investment also exists in geothermal, hydro, wave and biomass energy sources. The Snowy Hydro Scheme produced around 30 per cent of all renewable energy generated in NSW in 2014.

In 2016, the Commonwealth announced a \$2 billion investment in the Snowy Mountains Hydro Scheme to increase the current 4,000 megawatt output of the scheme

by 50 per cent. This is a significant employment opportunity for the Canberra Region.

The Veolia Woodlawn Bioreactor facility, located near Goulburn, utilises energy from waste material to produce green electricity. Waste is processed in a way that maximises the production of biogas. The waste landfill was once a zinc, copper and lead mine, and now exports enough power to supply over 2,500 Canberra Region households.

The Canberra Region contains over 10 per cent of Australia's domestic solar installations

\$2 billion expansion of Snowy Mountains Hydro Scheme

The ACT Battery Storage Program funds battery storage to over 5000 homes



RESEARCH SECTOR

The Canberra Region is home to world-class tertiary institutions with strong research capabilities that offer significant opportunities for the renewable energy sector, including:

- The **Australian National University (ANU)**: one of Australia's top universities, currently ranked 19th in the world, and chair of Australia's prestigious Group of Eight Universities. The ANU is internationally famous, particularly for its research.
- The Energy Change Institute at the ANU provides authoritative leadership in energy research, education and public policy through the science and engineering of energy generation and energy efficiency, to energy economics, regulation, security, sociology and policy. Comprising over 200 staff and PhD students from all 7 Colleges of the ANU University, and with over \$100 Million in infrastructure and facilities, the institute is supported by a major portfolio of external grant funding.
- Significant opportunities are available with ANU for research and development collaboration, industry development and commercialisation of new technologies. ANU is one of Australia's top universities, currently ranked 19th in the world, and chair of Australia's prestigious Group of Eight.
- **The University of Canberra** places in the top 100 young universities in the world and is renowned for its professional preparation excellence.
- **The Canberra Institute of Technology**, which has invested heavily in a trades training and testing centre to allow trade skills to be developed and improved around the renewable energy industry. This initiative provides a skilled workforce to meet the demand of regional development and deployment of renewable energy both domestically and at utility scale.

Education hubs at the Australian National University and University of Canberra possess highly sought after renewable energy research capabilities.

New technological developments are reducing the cost of solar installations and increasing consumer demand.

The Veolia Woodlawn Bioreactor facility produces green electricity by utilising waste material.

*All information correct at time of printing.
Visit www.canberraregion.com.au for the latest version.*

FOR MORE INFORMATION



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