



ACT
Government



How **Canberra** is becoming **90%** **renewable**

By 2020, 90% of Canberra's electricity supply will be from large-scale renewables, contributing to a 40% reduction in greenhouse gas emissions by 2020.

As a result, our community will benefit from Canberra becoming an internationally-recognised centre for renewable energy innovation and investment.





Community solar

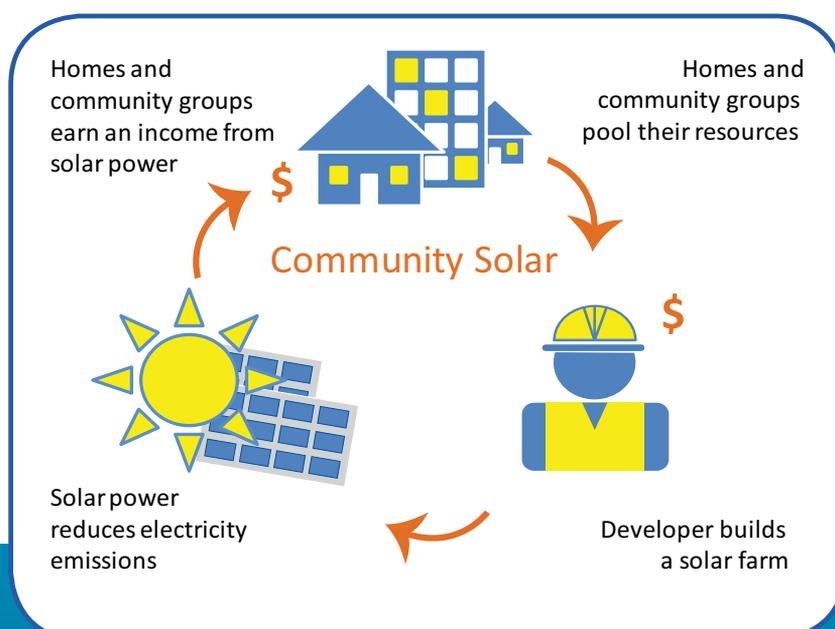
Canberra is Australia's solar capital with Australia's largest solar farm under construction and two more to be developed.

One in 10 Canberra households already has a rooftop solar installation – and this number continues to grow. For households living in apartments or renting however, accessing the benefits of solar can be a challenge.

From 2014, the ACT Government will provide the opportunity for individuals to pool their resources to fund large-scale solar projects, achieving economies of scale with the benefits of direct ownership. This opportunity will be provided through the establishment of a feed-in tariff for Community Solar projects.

Canberra Community Solar builds on the successes of community renewable projects across Australia and internationally, as well as those currently underway in the ACT.

www.environment.act.gov.au/community_solar

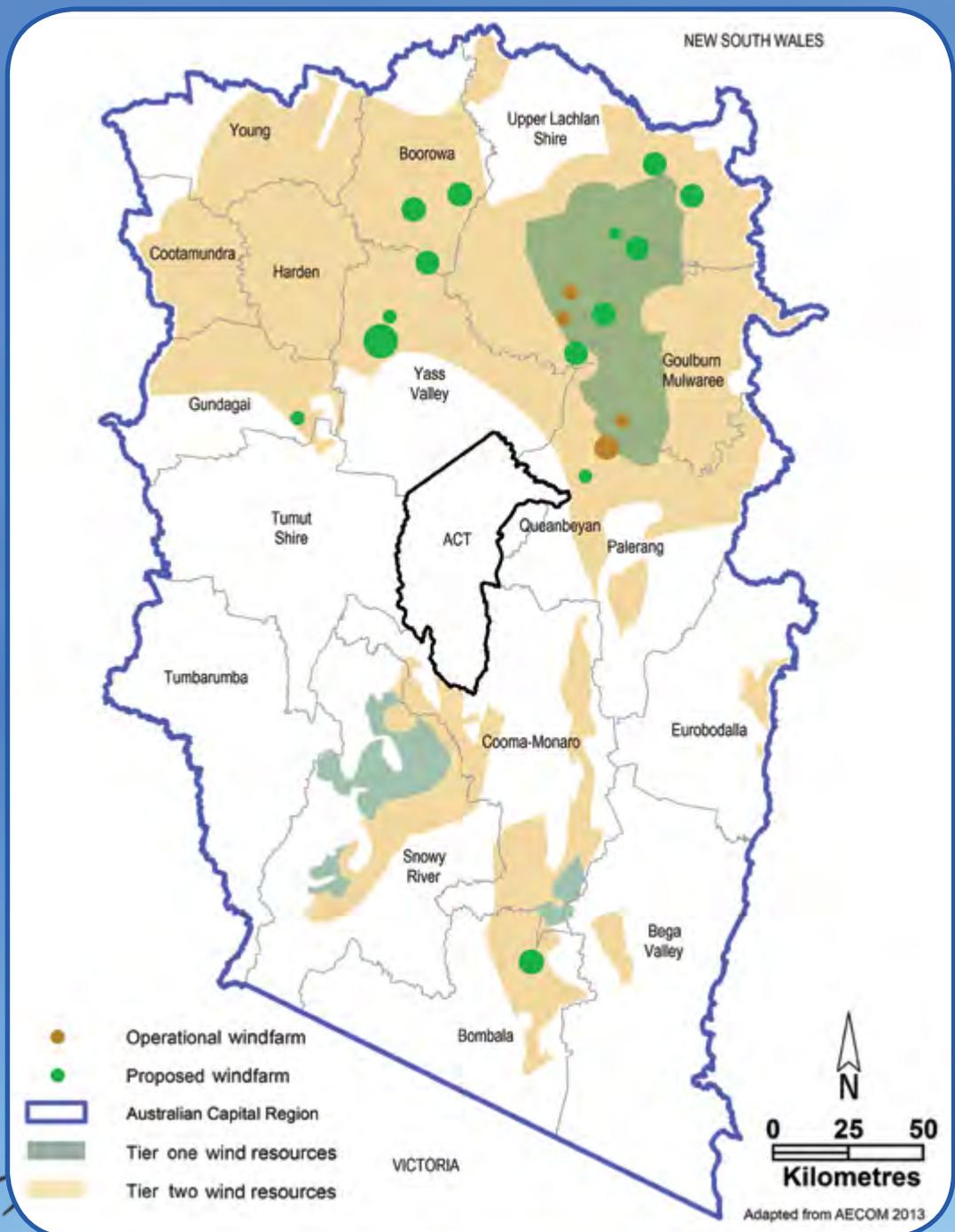


Wind power

The Australian Capital Region is one of Australia's fastest growing wind investment regions. More than 800 megawatts of wind power is already in operation or planned for construction, with more than 1700 megawatts at earlier stages of development.

Additional wind power investments by the ACT will meet 45% percent of Canberra's electricity needs by 2020, more than enough to power all Canberra residences. This will be delivered through the Territory's reverse auction feed-in tariff process as demonstrated through the ACT's first Solar Auction, with an initial 200MW wind auction to be held in 2014.

All developers participating in future wind auctions will be required to demonstrate best practice community engagement processes for their projects and contribute to local job creation. www.environment.act.gov.au/wind_power





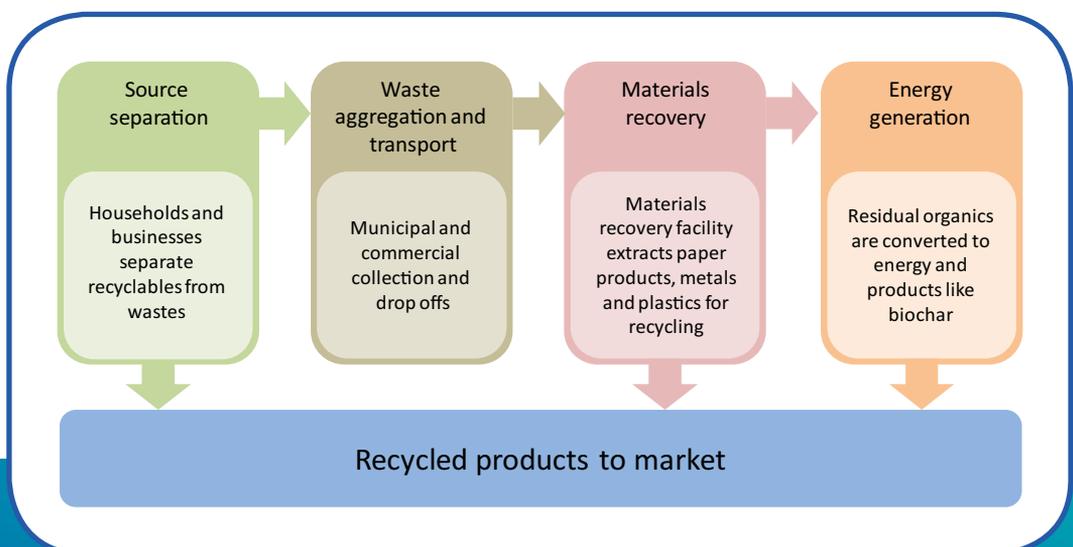
Energy from waste

Each year Canberrans send more than 100,000 tonnes of organic waste (household and commercial) to landfill.

A regional bioenergy facility could convert ACT and regional organic waste into renewable electricity. Other value-added products such as biochars for agriculture and sustainable transport fuels could also be produced, reducing greenhouse gas emissions from landfill by over 70,000 tonnes per annum.

The ACT Government is exploring options to deliver an energy from waste facility. This could achieve more than 90% total resource recovery for the ACT, displace fossil fuelled power generation and produce valuable products for agriculture and industry. For example, Advanced thermal processing technologies such as gasification, pyrolysis and plasma gasification are now sufficiently mature to be effectively deployed in the ACT.

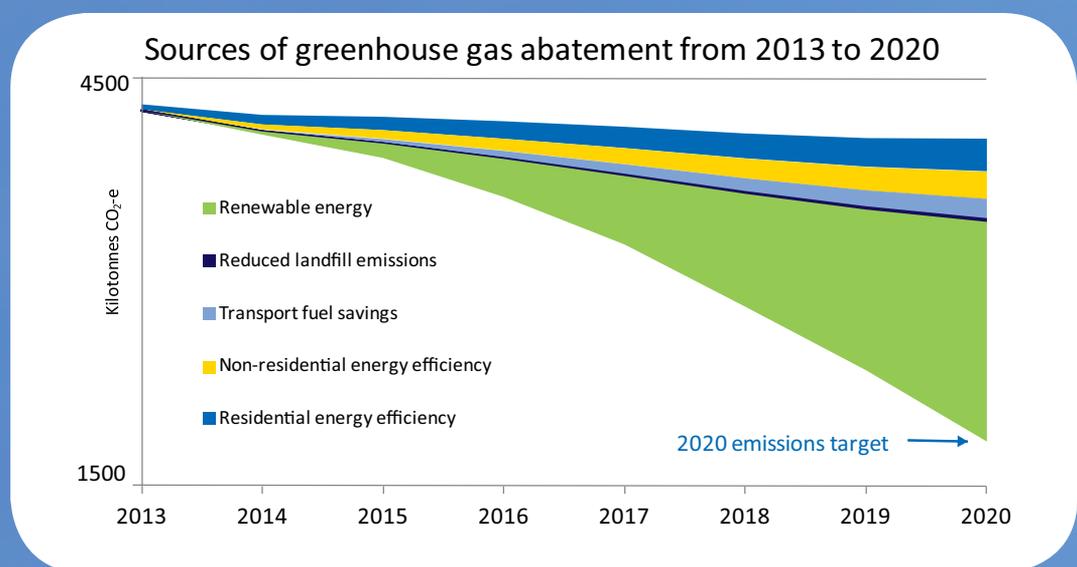
www.environment.act.gov.au/energy_from_waste



AP2 is the ACT's comprehensive climate change strategy

Climate Change Action Plan 2 (AP2) provides a comprehensive strategy to reduce the Territory's greenhouse gas emissions and adapt to a changing climate. It will deliver a 40% reduction in emissions by 2020 through investments in energy efficiency, better waste management, more efficient transport and renewable energy.

Community support for action on climate change is high. More than 80% of Canberra households want the ACT Government to take a strong leadership role on climate change. More than 90% support the Government's plans to demonstrate and promote new energy technologies. www.environment.act.gov.au/climate_change



Investing in renewables

The Territory's pioneering large-scale feed-in tariff and reverse auction mechanism means that our investments in renewable energy can be achieved at the lowest possible cost. Total costs per household of achieving 90% renewables are expected to peak in 2020 at about \$4 per household per week, offset by savings for households through new energy efficiency measures.

www.environment.act.gov.au/solar_auction





Next generation solar

The ACT Government is partnering with local businesses and research institutions to position the Canberra economy as an innovation centre in the global renewable energy revolution.

Next generation renewable energy systems, incorporating energy storage, will address renewable energy intermittency issues and allow the retirement of ageing greenhouse gas intensive coal and gas power stations. Energy storage can be in many forms including chemical, thermal or potential energy. It can be attached to or remote from the renewable energy generation source. For solar, benefits can be gained through advanced solar tracking systems that can capture more sunlight at more useful times over more seasons.

In 2014, the ACT Government will run an expression of interest process to identify potential sites and next generation energy systems to form the basis of a 50 megawatt solar technology innovation precinct. A focus of the precinct initiative will be to attract external sources of research and development funding and to build strong partnerships with local research institutions and businesses.

www.environment.act.gov.au/next_solar

For more information

www.environment.act.gov.au