

Government Leadership on Energy Productivity 2016 Summer Study

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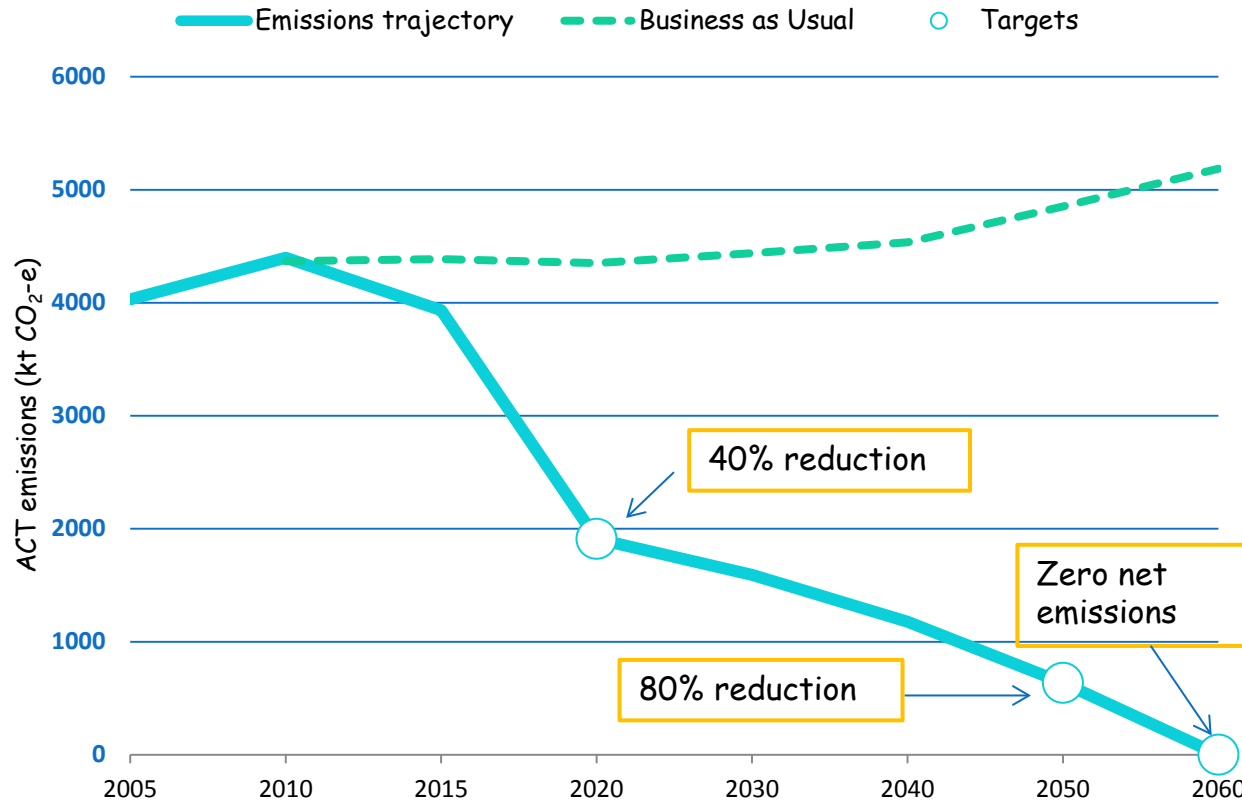
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ACT Emissions Trajectory



Greenhouse Gas
Energy Targets
1)

Act 2010, s 9 (Renewable Energy Targets)

and Greenhouse Gas Reduction
from 2012 (2012)

after modifications

see Gas Reduction (Renewable Energy Targets)

by Targets
of renewable energy (electricity) in the

Development

with assistance of new regulatory act (2012)



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International Leadership

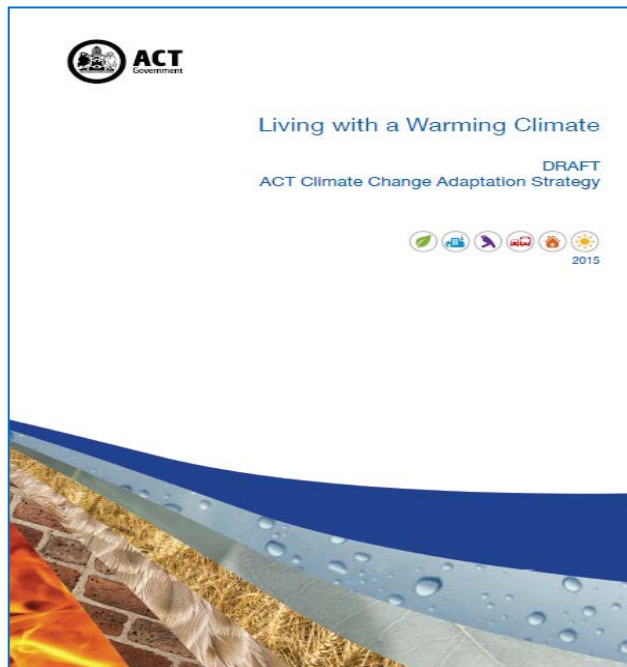
STATE/REGIONAL GOVERNMENT	COUNTRY	PERCENT REDUCTION	TARGET YEAR
Australian Capital Territory	Australia	100	2060
Baden-Württemberg	Germany	90	2050
Fukushima Prefecture	Japan	80	2040
Basque Country			
British Columbia			
California			
Connecticut			
Gifu Prefecture			
Kyoto Prefecture			
Massachusetts			
Minnesota			
New York			
North Rhine-Westphalia			
Ontario			
Scotland	UK	80	2050
Wallonia	Belgium	80	2050

STATE/REGIONAL GOVERNMENT	COUNTRY	PERCENT RENEWABLE POWER	TARGET YEAR
Scotland	UK	100	2020
Tasmania	Australia	100	2020
Australian Capital Territory	Australia	100	2025
La Réunion	France	100	2030
Upper Austria	Austria	100	2030
Hawaii	US	100	2045

Source: The Climate Group States & Regions, CDP, carbonn Climate Registry (via NAZCA)



Climate Change Adaptation Strategy



This is a postcard-style graphic for a public consultation. The top has a blue header with the ACT Government logo and the text "Have your say" and "Climate Change Adaptation Strategy Living with a warming climate". Below the header is a row of six icons: a green leaf, a blue factory, a purple bird, a red bus, an orange house, and a yellow sun. The main body of the postcard has a background image of a tree silhouette against a sunset sky. The text on the postcard reads: "The ACT Government's draft ACT Climate Change Adaptation Strategy seeks to adapt our city to current and future climate challenges and build a stronger, more resilience community." Below this, it says: "Have your say by completing an online survey or make a written submission", followed by the URL "http://haveyoursay.planning.act.gov.au or timetotalk.act.gov.au" and "Access Canberra 13 22 81". At the bottom, it states "Consultation closes Sunday 3 April 2016".

Climate Change Action and Local Context

- Lowest tariffs - *cheapest energy in Australia*
- Highest energy consumption – *per capita*
- High incomes and highly educated – *(ABS, 2013)*
- Good penetration of rooftop solar (+10%)
- Progressive & supportive population – *80% population highly supportive of climate action (ACT survey, 2013)*



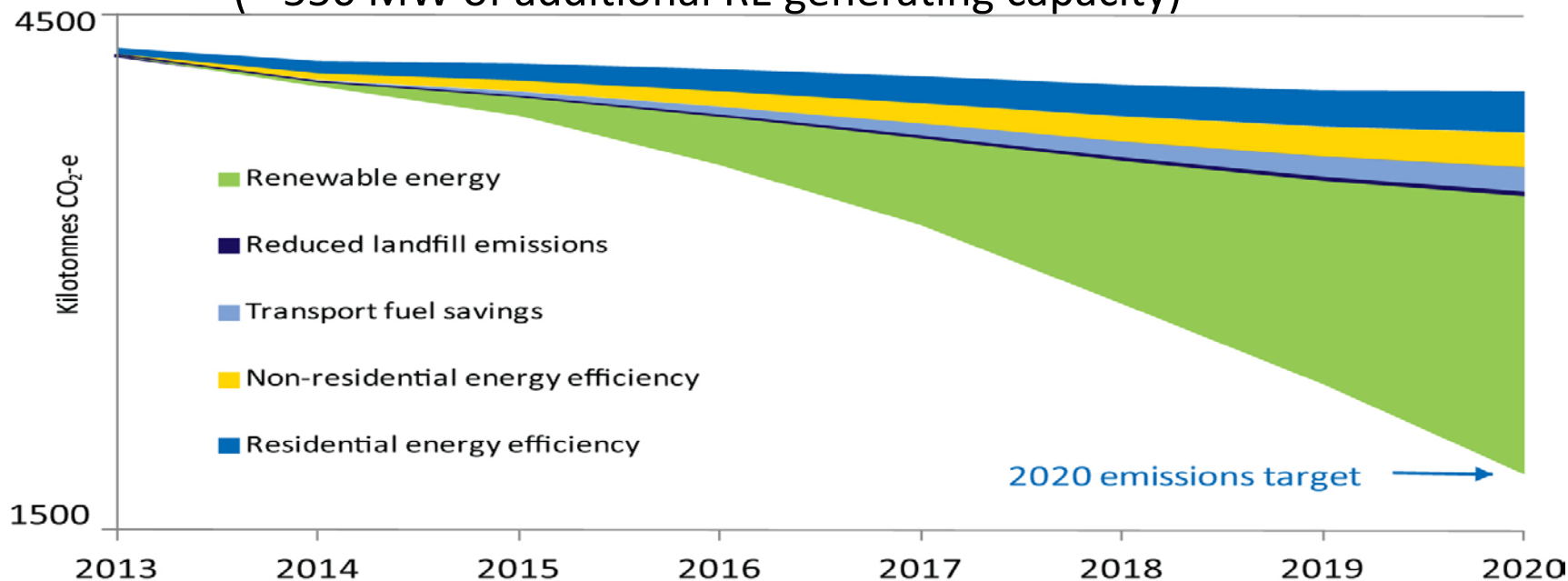
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Pathway to 2020 target

RE will deliver about 73% of the 40% by 2020 reduction in GHG
(= 550 MW of additional RE generating capacity)



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Achieving 90% renewable energy by 2020

Completed

- 44 MW rooftop solar
- 40 MW solar auction
- Two 200 MW wind auctions

Underway

- Community solar
- Next Generation Energy Storage Pilot

To come

- 109MW Next Generation Renewables Auction
- Further storage auctions

Renewables currently account for around 19% of ACT electricity

By 2016 90% renewable energy supply secured

Cost per Household = \$4.67 per week (2020 peak)

Energy Efficiency savings around \$4 per week

2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020



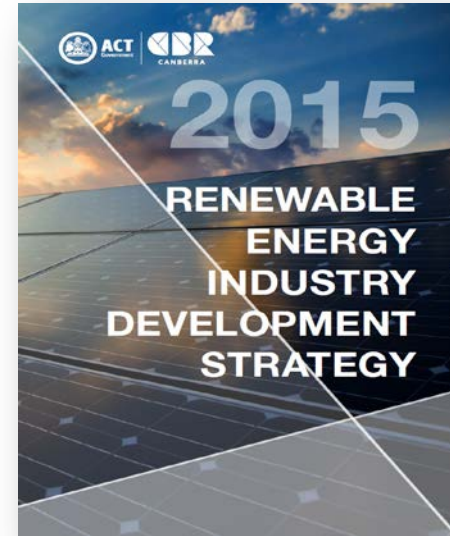
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Creating Local Benefits from RE Auctions

- Vision – Canberra is an internationally recognised export oriented hub for renewable innovation and investment
- \$300million in local investment and growing
- 400% increase in local RE jobs in ACT over past 5 yrs
- \$12million Renewable Energy Innovation Fund (research, trades training, RE precinct & start-up support)



Carbon Neutral ACT Government

- Government leading by example - achieving zero net emissions from own operations by 2020
- Target electricity, gas and transport fuels
- Carbon Neutral Government Loan fund = \$9.8m across 19 projects:
 - Saves 7,314 tonnes CO₂-e per year
 - Saves \$1.8m per year
 - New project = \$3.3m at Canberra Hospital – LED lighting and solar PV



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Actsmart programs



Actsmart business programs assist businesses and event organisers to put efficiency measures in place to reduce energy, water and waste.



Actsmart household programs help residents save money, reduce emissions and live sustainably.



Actsmart schools support implementation of sustainable management practices into everyday operations focussing in the areas of water, waste, energy, biodiversity and curriculum.

Energy Efficiency Improvement Scheme

- Established under the *Energy Efficiency (Cost of Living) Improvement Act 2012*
- Places a requirement on electricity retailers to undertake activities to achieve an energy savings target
 - Measured in CO₂-e
 - Also a priority household sub-target (20%)
 - Smaller 'Tier 2' Retailers can pay a contribution fee in place of undertaking activities



Photo used with permission from ActewAGL



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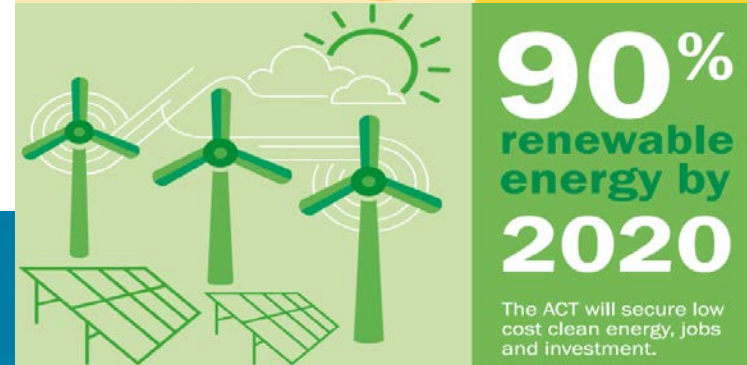
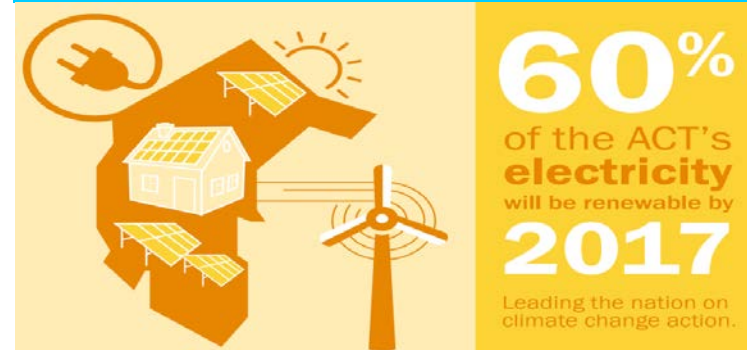
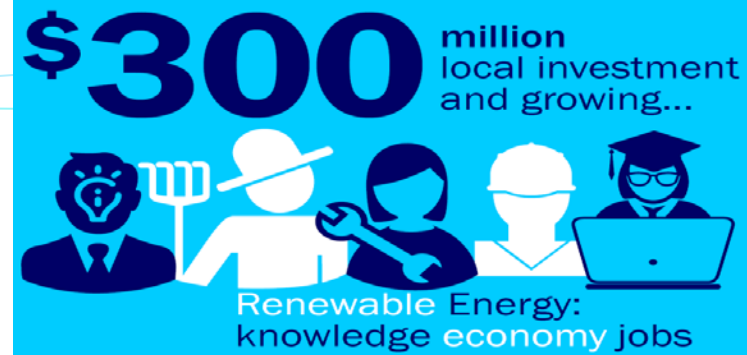
EEIS Achievements

- ✓ 860,000 energy saving items installed in over 60,000 Canberra households = 644,000 tCO2-e saved
- ✓ Over **16,000** of these were low income households
- ✓ \$1,600 average lifetime savings or \$318 per year
- ✓ Extension to 2020 will further align and harmonise with similar schemes in other jurisdictions, broaden participation and expand the list of eligible activities
- ✓ Next stakeholder forum on 28 April 2016 in Canberra – input welcome to shape the future of the scheme!



Take Home Messages

- ACT is a leader in climate change action and renewable energy
- Our leadership is contributing to the NEPP by delivering energy productivity results across the triple bottom line
- Leadership + Policy + Legislation + Programs + Performance = results
- Collaboration and innovation is key to continued success



THANK YOU

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