

ACT GOVERNMENT

The ACT's Transition to Zero Emissions Vehicles Action Plan 2018-2021

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Zero Emissions Vehicles Action Plan 2018-2021



To support and accelerate the transition to zero emissions vehicles



Reducing ACT greenhouse gas emissions



On track to achieve

- 100% renewable electricity by 2020
- Emissions 40% below 1990 levels by 2020



ACT emission reduction targets

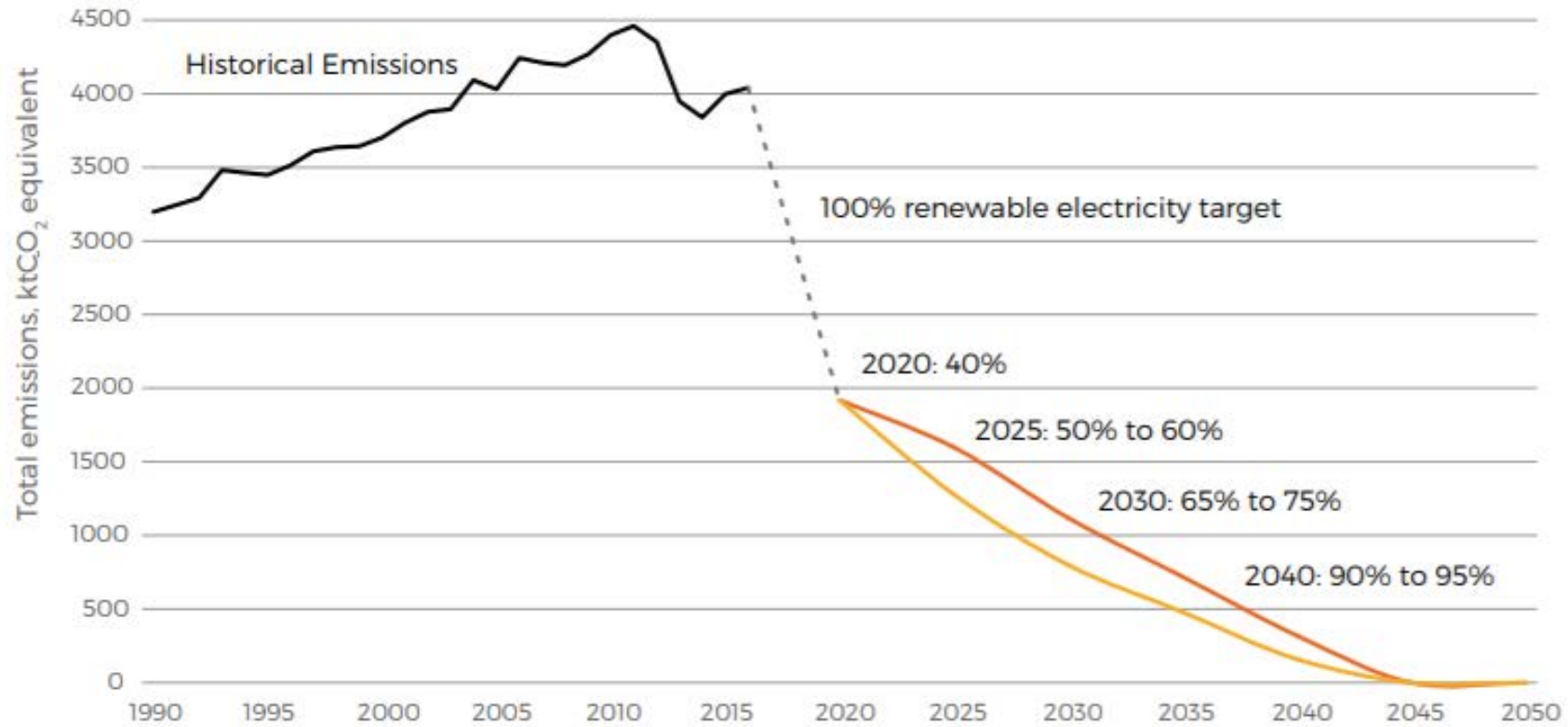
Net zero emissions by 2045

Interim targets (from 1990 levels):

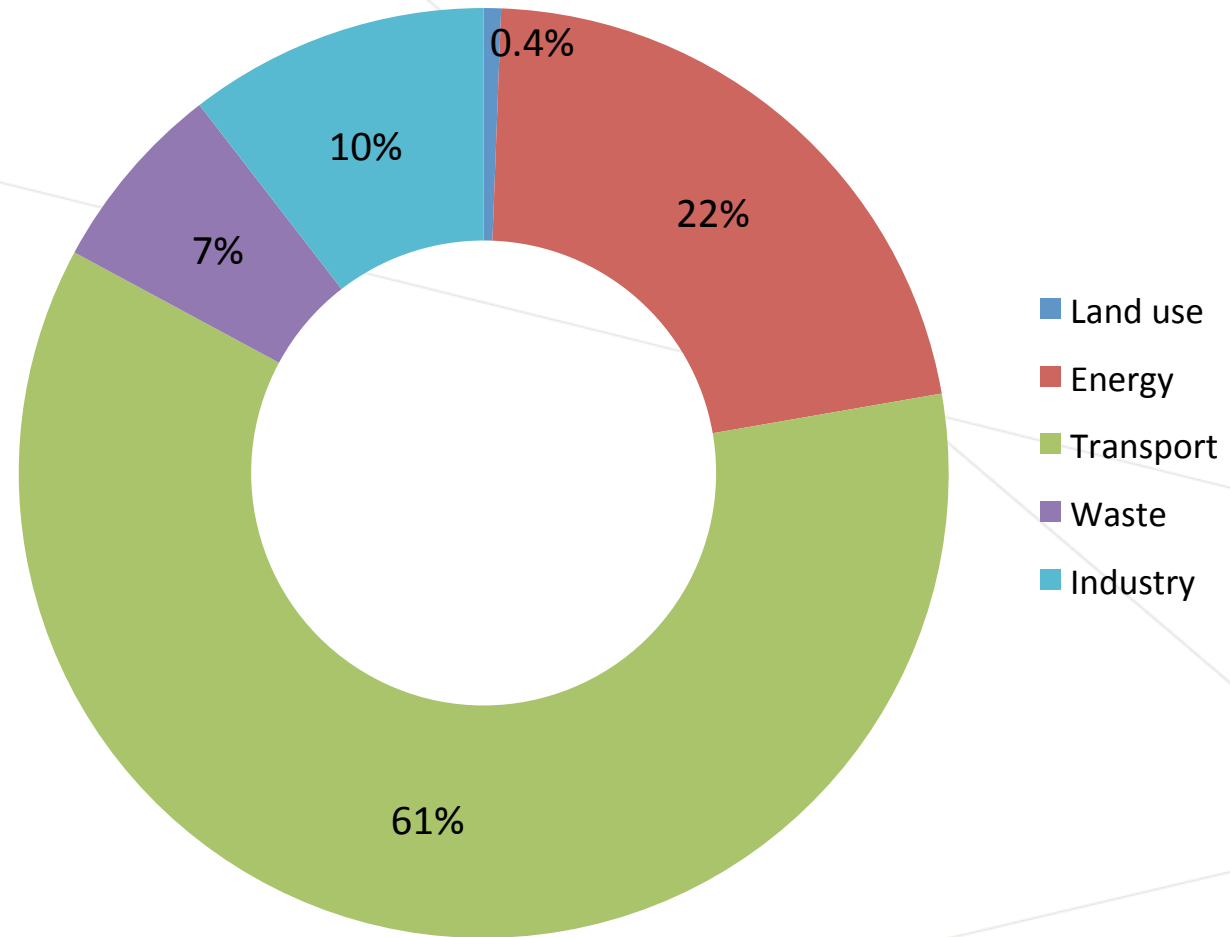


ACT emissions reduction trajectory

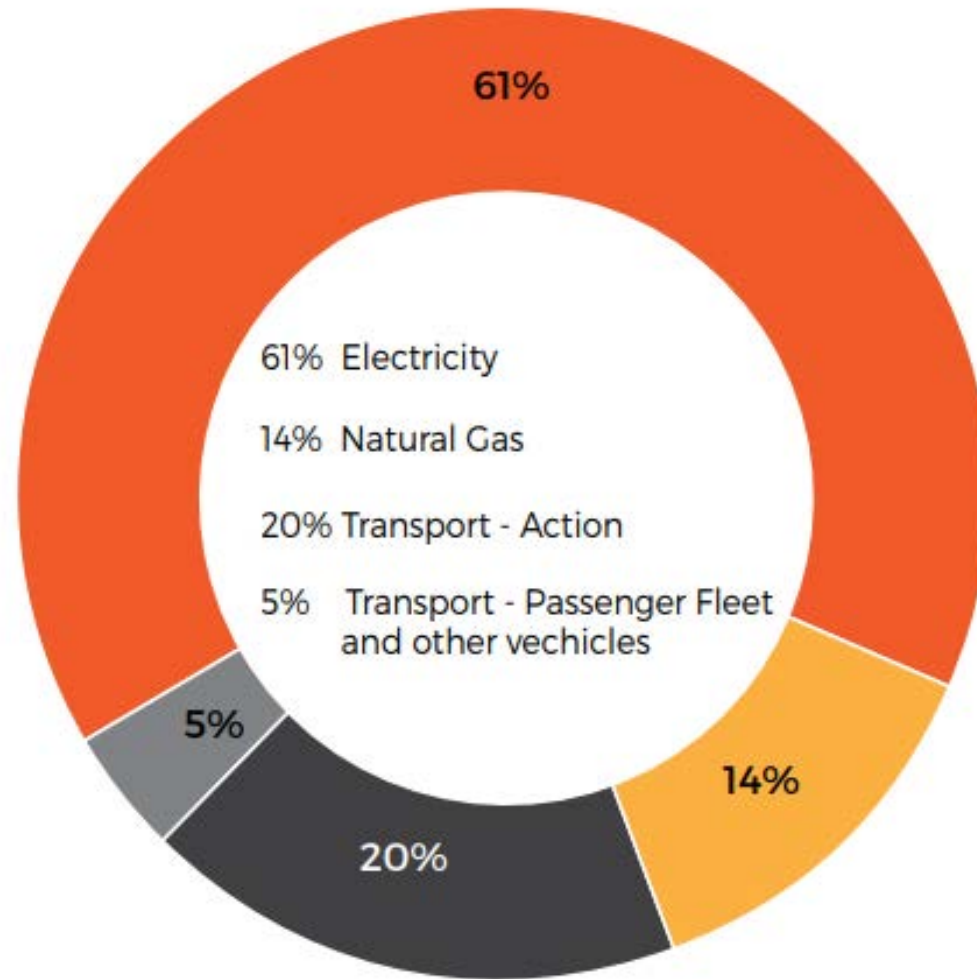
Figure 1: . Recommended ACT emissions target range



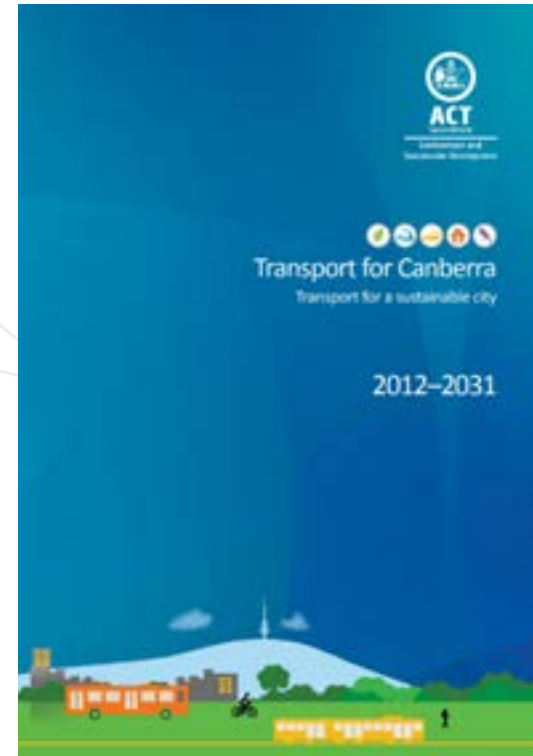
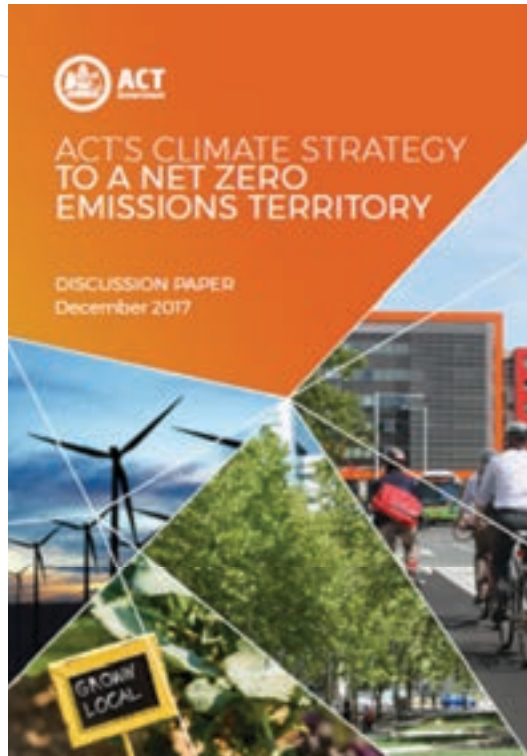
ACT – projected emissions in 2020



ACT Government emissions 2016-17



A new climate strategy for the ACT



Actions already taken

Financial incentives

- Zero stamp duty on new zero emissions vehicles
- 20% discount on registration fees

ACT Government fleet

- 17 battery electric and 7 plug-in hybrids in fleet
- Fleet of 8 electric bikes
- Park rangers using electric mountain bikes
- Trialling 2 electric buses

Electric vehicle MoU

- Signed Electric Vehicles MoU in 2017 (C.A.R)



ACT future actions on zero emissions vehicles



- 50% of newly leased passenger fleet vehicles to be zero emissions by 2019-20
- All newly leased passenger fleet vehicles to be zero emissions from 2020-21
- New multi-unit and mixed-use developments will be required to install vehicles charging stations
- Facilitate installation of charging infrastructure in the ACT and major routes

ACT future actions on zero emissions vehicles

- Permit zero emissions vehicles to drive in transit lanes to 2023
- Investigate incentives to encourage use of electric bikes
- Allow ACT Government staff to salary sacrifice an electric bike
- Support new and innovative businesses in the sector
- Investigate potential use of electric vehicle batteries to support electricity grid



Shifting to a zero emissions passenger fleet



- Will lease around 50 electric cars in 2019-20, then 80-150 electric cars each year until the whole fleet is zero emissions (where fit for purpose). Total passenger vehicles approx.600
- Analysing fleet replacement schedule, identifying priority sites for charging stations.
- Will install 50 charging stations at Government sites in 2019-20.

Challenges

- Limited availability of affordable models
- Common misconceptions about EVs
- Organisational change
- Mechanisms to meet targets
- Price difference



Approach and observations

- Bringing people together to identify information gaps, concerns and opportunities
- Developing tailored communication tools to address key misconceptions
- Fleet analysis, site technical review to improve understanding of fleet

Observations

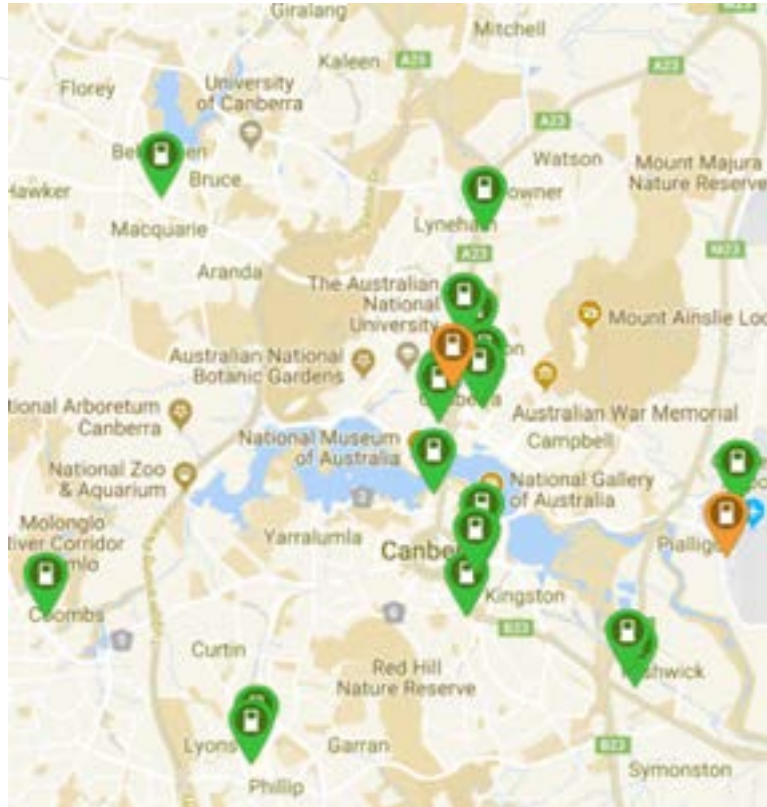
- Strong interest from governments and industry
- Around 65% of passenger vehicles are 'fit' for replacement with an EV
- Average daily km travelled are well within EV range
- Rapidly shifting culture – growing support and willingness to go beyond passenger vehicles

Requiring charging in new multi-unit and mixed-use developments

- Defining required charging infrastructure/charging readiness
- Analysing estimated costs and benefits
- Amending regulations to require



Principles and process for public charging stations



- Existing network of 12 ActewAGL charging stations plus a number at shopping centres, hotels etc.
- Want to prepare for future to ensure we have a strategic, user-friendly network
- Currently no clear process for evaluating proposals
- Developing process and guiding principles

Next steps and areas for collaboration

- Investigating joint fleet procurement – for improved availability and affordability
- Inter-city rapid charging infrastructure
- Expanding to include light commercial and service vehicles as they become available
- Increasing uptake of electric buses
- Considering how to encourage zero emissions heavy vehicles (freight)



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