ZERO EMISSIONS HOBART

PRESENTATION



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Emissions Pathways for Hobart

Hobart Climate Assembly

18 February 2024

Strategy. Policy. Research.

Making the business case for sustainability

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What the science says

From the Inter-governmental Panel on Climate Change:

- Limiting human-caused global warming requires **zero greenhouse gas emissions**.
- Pathways that successfully limit warming to 2°C (or less) involve rapid and deep and, in most cases, **immediate greenhouse gas emissions reductions in all sectors this decade**.
- Climate change is a threat to human well-being and planetary health. There is a rapidly closing window of opportunity to secure a liveable and sustainable future for all.
- The choices and actions implemented in this decade will have impacts now and for thousands of years.

Science-based targets

How does the science translate to city targets?

- HCC is a member of the Global Covenant of Mayors for Climate and Energy, which is one of the partners in the Science Based Targets Network
- The Network promotes a science-based target setting method with 2 key elements:
  1. How much risk are we willing to accept that we might exceed key thresholds, like 1.5°C or 2°C? The more certain we want to be, the faster we need to reduce emissions.
  2. Equity – more developed/better off countries are expected to contribute more than less well-off ones, since they have greater capacity to respond
- This methodology sets minimum targets, while climate leadership would greater ambition

Principles

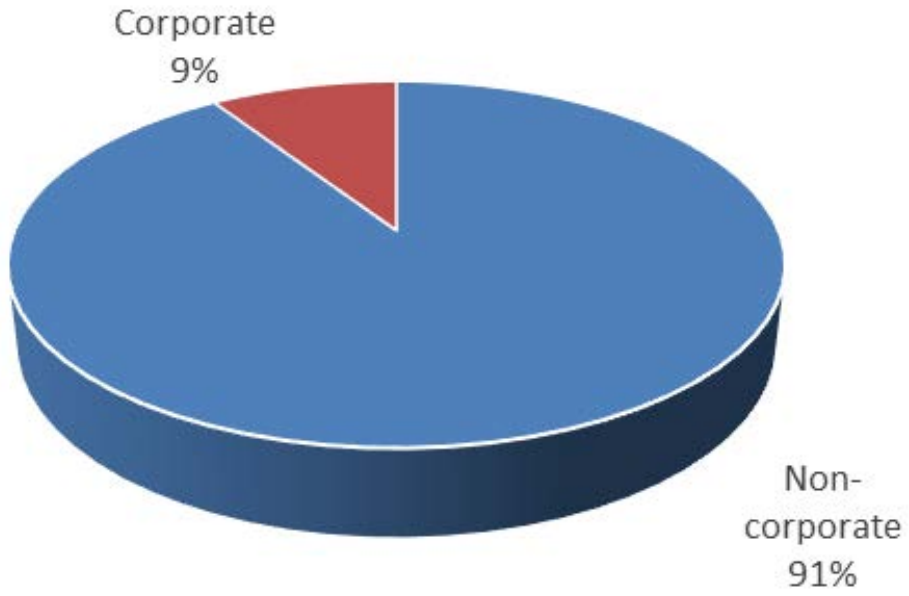
- Emissions targets should be based on the latest climate science and our capacity to act
- Focus on reducing the largest emissions sources first
  - Don’t sweat the small stuff until later on!
- Council should show leadership, for example by reducing its own emissions to zero as rapidly as possible, 2035 at the latest
- Council has less direct control over community emissions but should exercise leadership and influence through Council policies and programs, as well as through advocacy and leadership
  - Aim for leverage through partnerships with the State Government, government business enterprises and others.

Recommendations

- **Community emissions target**: at least a 70% reduction by 2030 and zero emissions by 2040 at the latest. Council to engage with community on this target.
- **Corporate emissions target**: at least a 75% reduction by 2030 and zero emissions by 2035 at the latest.
- **Landfill**: Minimise methane emissions and stop selling offsets.
- **Policies**: No fossil fuels, electrification as a priority.
- **Improve inventories**: ensure compliance with relevant international standards and introduce climate-disclosure standards.

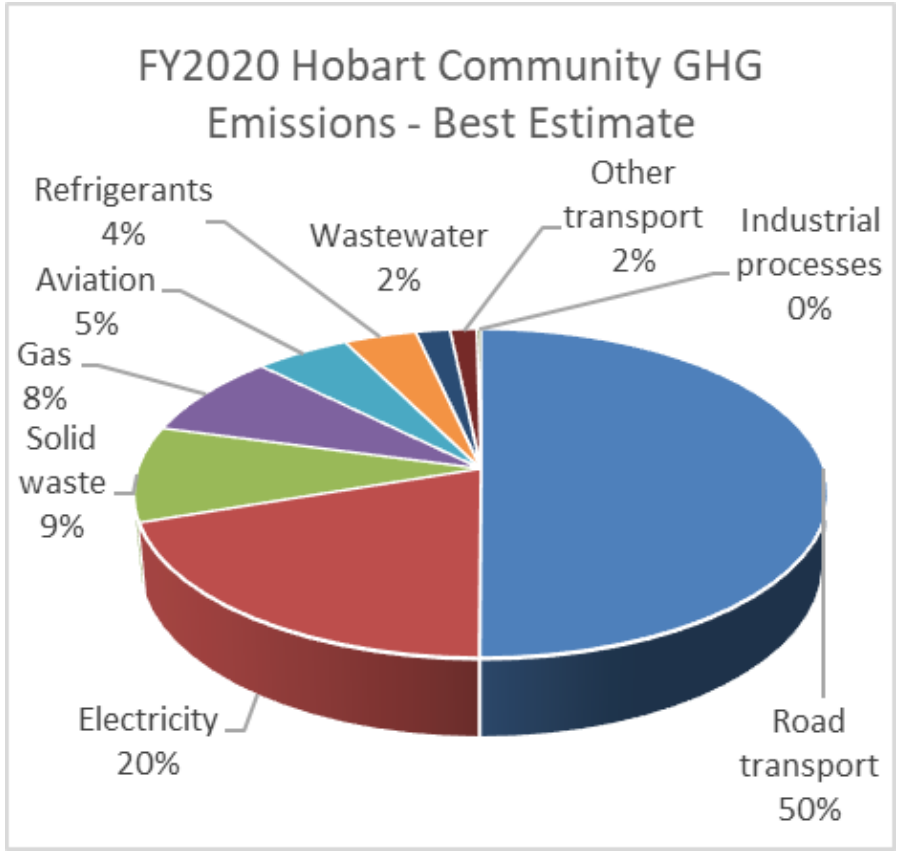
Inventories

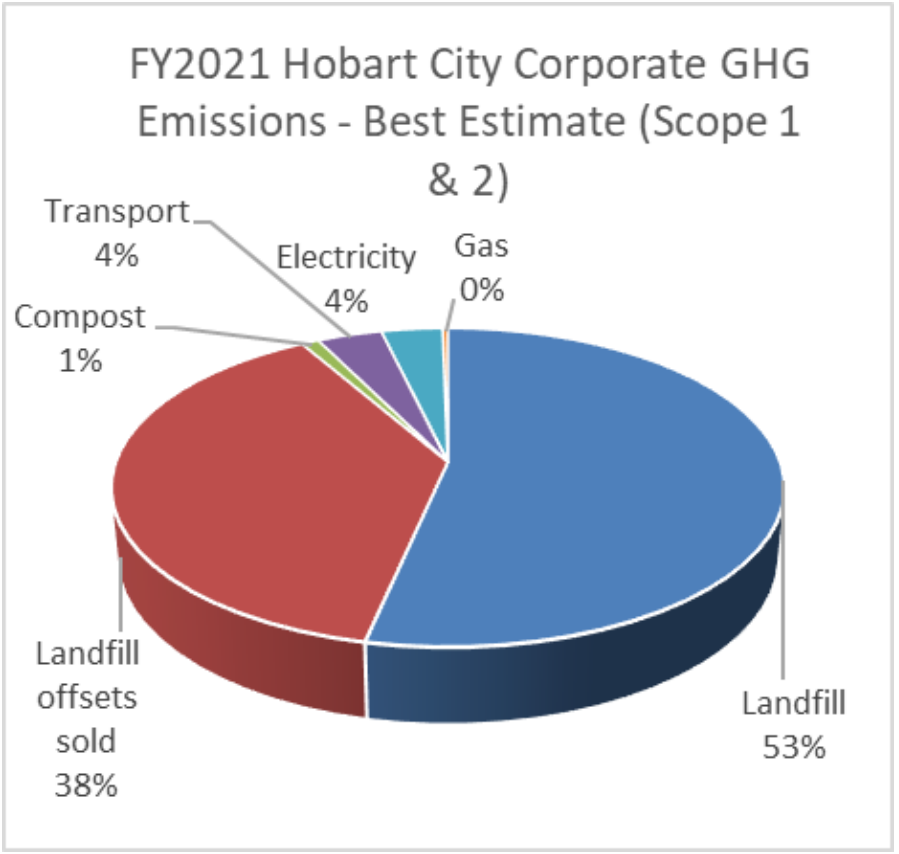
Council emissions are 9% of total Hobart (LGA) emissions



Corporate emissions	Community emissions
Smaller proportion	Larger proportion
Under direct Council control	Council has significant influence
Costs and savings direct to Council	Costs shared, savings mainly to community

Emissions profiles





- Community emissions are best estimate based on a variety of existing sources.
- Corporate emissions are dominated by waste – selling offsets does not reduce emissions

Pathways

- **Reference pathway:** some things will happen irrespective of Council action, but this will not meet science-based targets
- **Minimum Required Action pathway**: Actions that are likely to (just) meet science-based targets
  - Prioritises emissions reduction and cost effectiveness, less attention to social equity
- **Climate Leader pathway**:
  - Demonstrates global leadership
  - Reputational benefits, attract investment
  - Actively addresses social equity issues

Council and community can ‘mix and match’ opportunities from different pathways

Opportunities – Community

indicative only – largest emissions

Source category (% of 2020 emissions)	Key opportunities	Minimum Required Action pathway	Climate Leader pathway (additional)
Road transport (50%)	Electric vehicles	Advocate for increased public charging infrastructure Add more charging facilities at Council-controlled facilities – eg, carparks	Partnerships in place for rapid roll-out of in-street charging facilities, prioritising areas with little off-street parking Require provision in new buildings
	Mode shifting	Protected cycleways Greater priority for pedestrians E-bike hire scheme Advocate for free electric and increased public transport	Car free zones or congestion charging
Electricity (19.8%)	Rooftop PV residential and commercial	Interest free loans PV paid for through Council rates Subsidies for social and low income residences	HCC-initiated bulk purchase schemes Subsidies for social and low income residences Enabling access to community-based PV (and storage) Guarantee solar access in planning scheme
	Contract for zero emissions electricity	Council to investigate and promote to large users	Joint purchase arrangements between the Council and large users.

Opportunities– Corporate

indicative only – largest emissions

Source category (% of 2020 emissions)	Key opportunities	Minimum Required Action pathway	Climate Leader pathway (additional)
Landfill (53.4%)	Food waste prevention	Behaviour change programs	Near 100% methane capture for McRobies Gully
	Organic waste diversion	Encourage reduced organics to waste Initiate behaviour change campaign to achieve zero waste	Cease allowing organic waste to landfill
	Minimise methane emissions from McRobies	Landfill design and operation to minimise methane emissions	Tighter performances requirements for landfill gas contractor
Landfill offsets sold (38.3%)	Change contractual arrangements to cease sale of offsets	Cease allowing offsets when contract expires	Pay to terminate contracts and/or purchase and retire ACCUs
Transport (3.6%)	Passenger and other light fleet vehicles to EVs	Replace fleet vehicles as cost effective	100% fleet replacement
	Heavy vehicles to EVs or other low emissions technology	Replace as options become available	Set target date for total elimination of fossil fuels in heavy vehicles
Electricity (3.4%)	Contract for zero emissions electricity	Purchase Greenpower	PPA with developer of new renewable infrastructure


SHORT BREAK

ZERO EMISSIONS HOBART

DRAFT

PRIORITY

Zero emissions across the city by rapidly reducing greenhouse gas emissions as urgently and cost effectively as possible and focused on the largest sources of emissions first.

RECOMMENDED TARGET

Community target: At least a 70% reduction in gross community greenhouse gas emissions across Hobart by 2030 using a 2020 baseline, and zero emissions by 2040.

Council target: At least a 75% reduction in City operations greenhouse gas emissions by 2030 using a 2020 baseline, and zero emissions by 2035 at the latest including across investments and supply chain.

GOALS

1	2	3	4	5
Zero emissions transport	Zero emissions buildings and energy	Zero emissions waste	A compact climate ready city	Zero emissions Council

OBJECTIVES

Create a city for walking, cycling and public transport. Support the transition to zero emissions vehicles. Transition the City fleet to zero emissions vehicles	Retrofit homes, buildings and neighbourhoods to be electrified and thermally efficient. Retrofit city operations to be electrified and thermally efficient.	Zero methane emissions from landfill through waste minimisation, diverting organics as well as improving methane emissions capture.	Create a compact and well design city to contribute to a zero emissions and climate readiness. Reuse and repurpose buildings and infrastructure.	Zero emissions across city operations, city investments and the supply chain.

DELIBERATION

- To what extent do you support the goals and objectives?
- What are the reasons for your level of support?

Use the worksheets to record your collecting thoughts. Make sure you find the right sheets for your table :)





REPORTING BACK