

Energy and Sustainability at Auckland Council

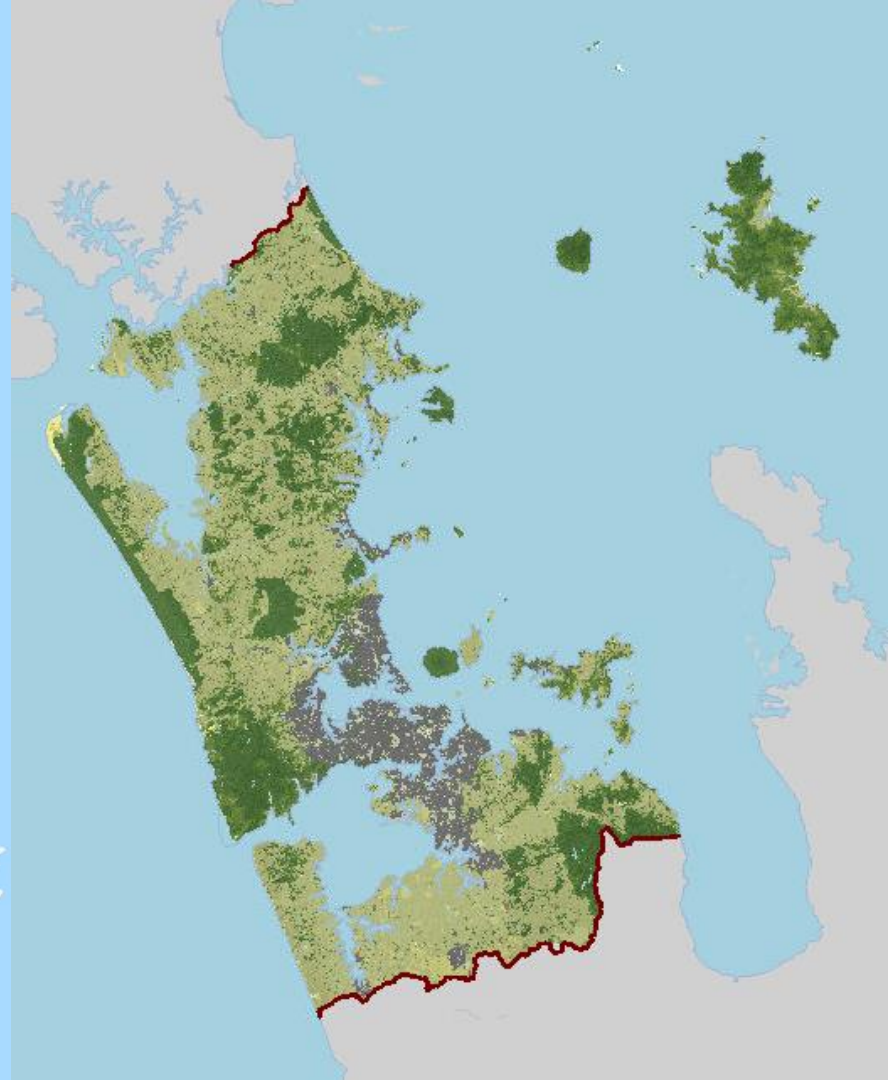
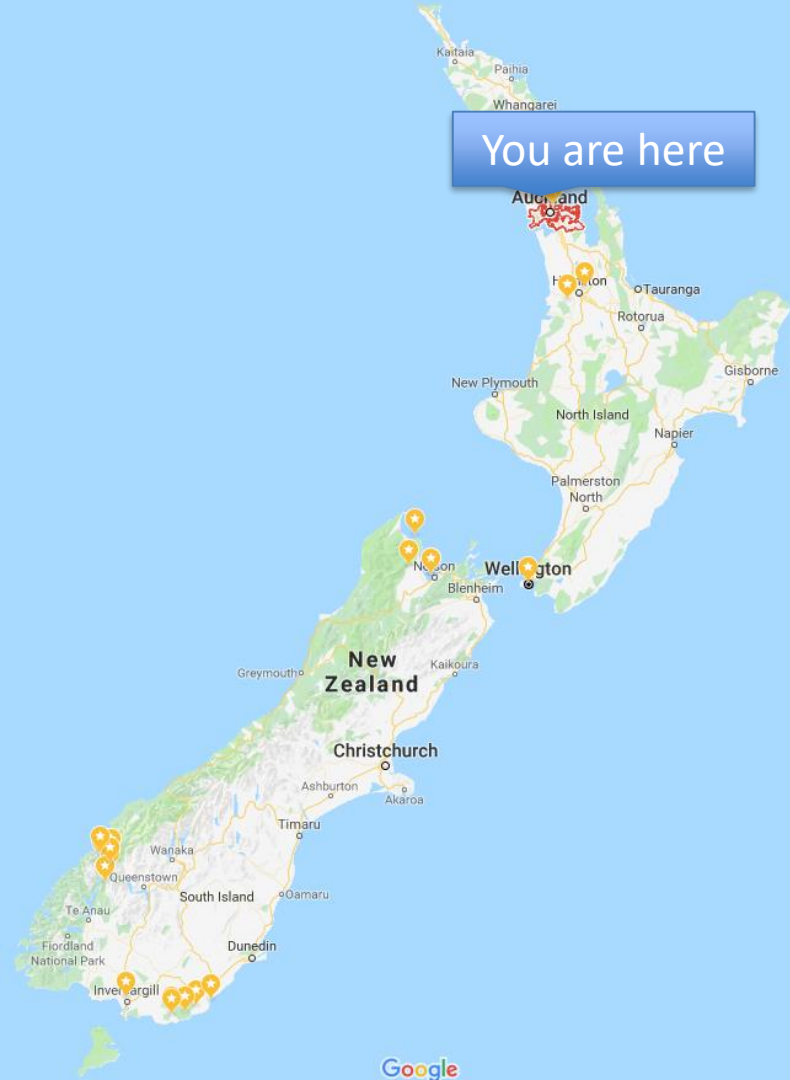
Duncan Munro

Energy and Sustainability Manager Community Facilities

15th October 2018

What you will get from my presentation

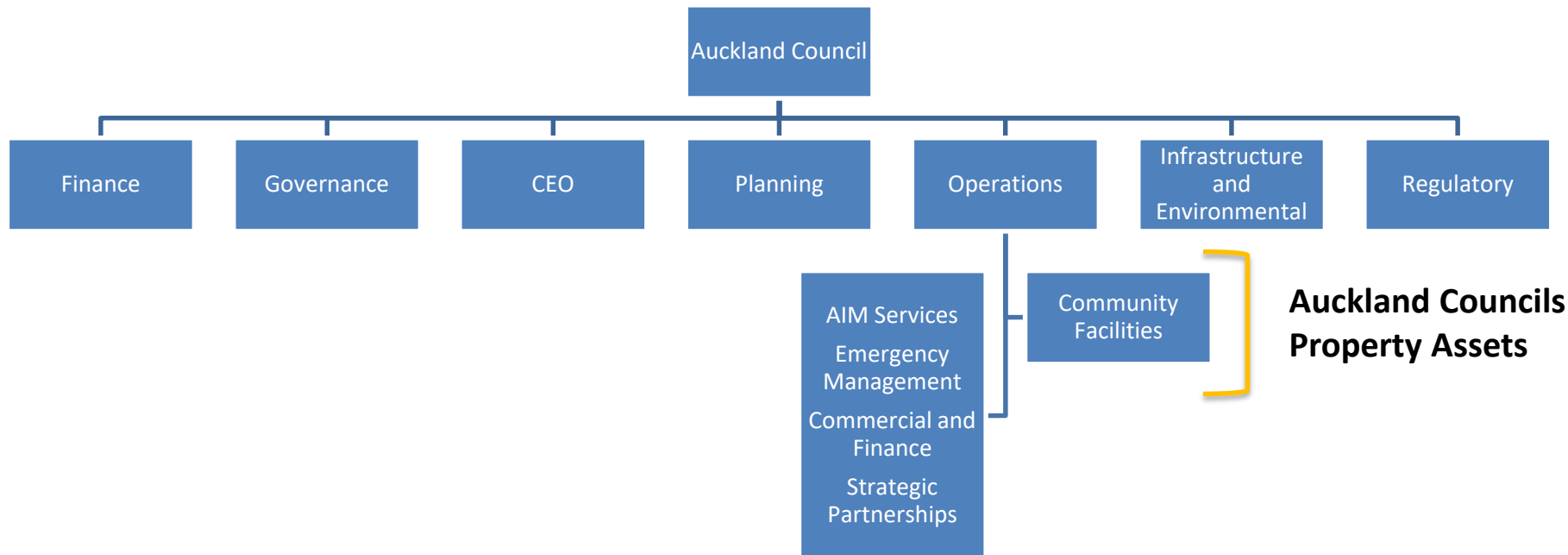
- **Auckland Council and what we do**
- **Our energy efficiency and sustainability targets**
- **Our Energy challenges (and NZs)**
- **How we are driving green house gas (GHG) reductions**



Auckland Council Family



Auckland Council

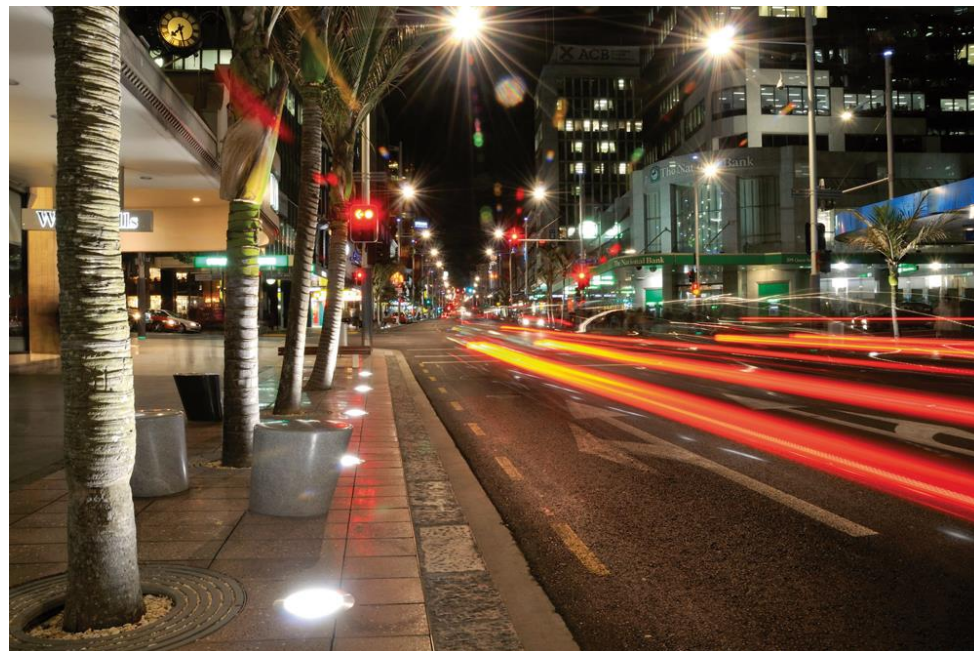


Utilities Use 2017 / 2018

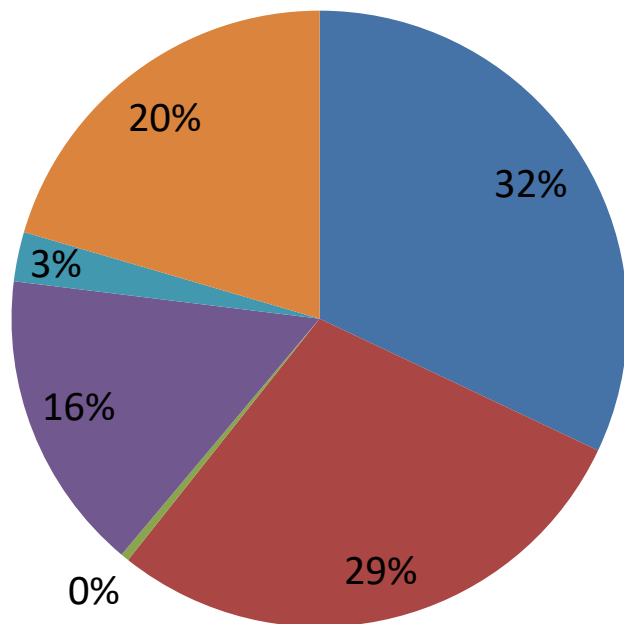
- **Electricity 55 GWh - \$11 million**
- **Gas 37 GWh - \$2 million**
- **Water – 2.7 GL - \$9 million**

Our Targets – Auckland Plan & Low Carbon

- **40% Reduction GHG emissions by 2040**
- **Zero Waste by 2040**
- **30% Reduction water use by 2040**
 - And more...

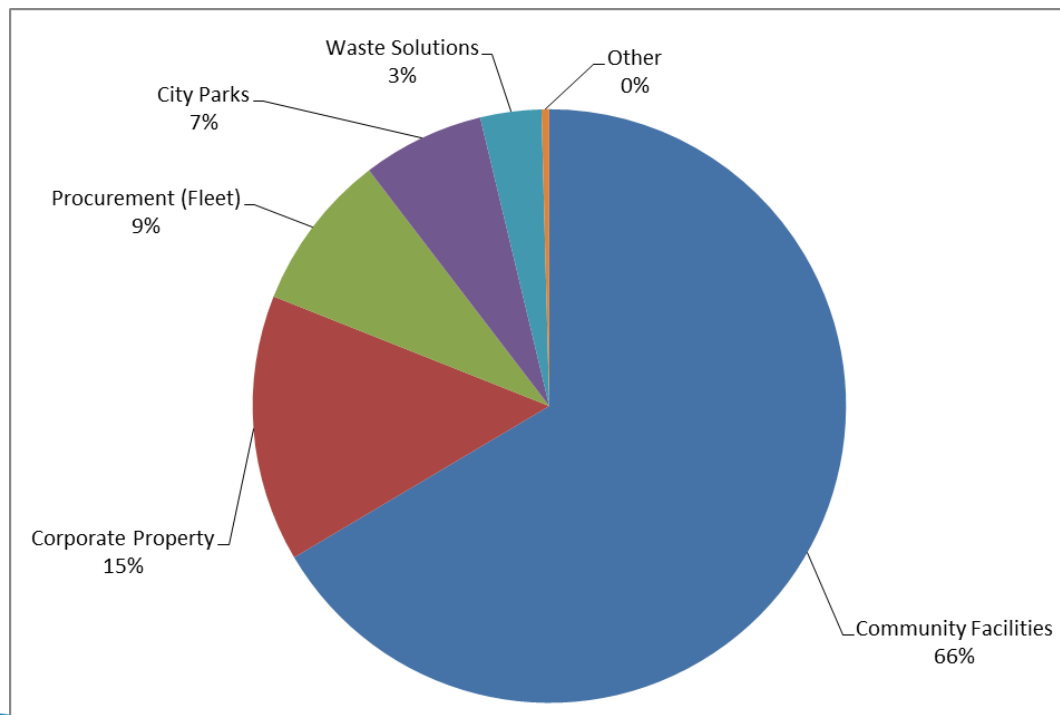


Emissions Profile



	tCO2e	Percentage
Stationary Combustion	7,781	32%
Electricity	6,957	29%
Refrigerants	106	0%
Fleet	3,844	16%
Claris Landfill	631	3%
Council Farms	4,970	20%

Auckland Council 2016/17 GHG Inventory

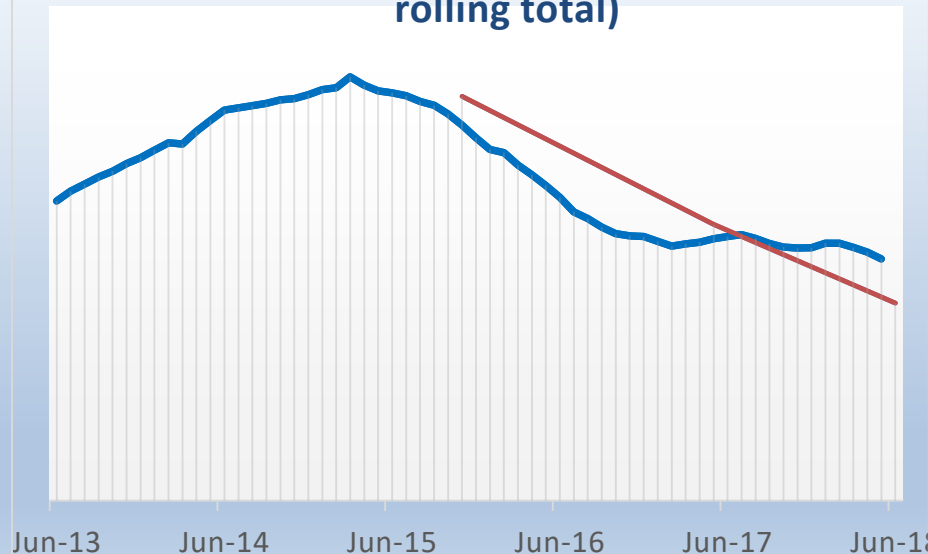


Auckland Council Low Carbon Action Plan Targets

Gas Consumption (12 month rolling total)



Electricity Consumption (12 month rolling total)



How can we get to 40%

	Actions	Reduction of emission source	GHG inventory Reduction	Achieved by
1	Gas Phase out gas boilers	80% - Stationary Combustion	23%	2040
2	Electricity 40% reduction in consumption 90% renewable grid New builds are net zero energy	70% - Electricity	18%	2040
3	Switch fleet to 100% electric (vehicles, e-bikes)	95% - Fleet	13%	2030
	Total		54%	

Our Challenges

- Outsourced maintenance model
- Making our size work
- Technology Challenges



Energy Technology Challenges

- Zero Carbon Heat
- BMS 70 sites
- IoT
- Energy supply



In summary

- **Auckland Council is committed to GHG reductions within our own assets**
- **We know how to get to our targets**
- **We have challenges with rolling out the technology needed**



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New Zealand-Germany Business Conference 2018:

Trans Technological Energy Solutions for the Industrial Sector in New Zealand

Monday, 15th October 2018, 9:00 am – 5:00 pm

www.german-energy-solutions.de/en