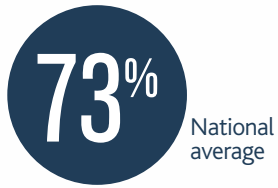


# AUCKLAND NOW



Only 68-79 per cent of New Zealand electricity supply is generated from renewable sources.

The majority of the energy used in Auckland is sourced from outside the region.



Auckland's energy demand could increase by up to 65 per cent by 2040.



Auckland's electricity demand is forecast to grow on average by 2.1 per cent annually over the next 15 years – higher than the national average of 1.7 per cent.

# \$5,000,000,000

Auckland's current spend on energy per year.



New buildings can achieve a 30 per cent to 40 per cent reduction in energy use by applying current technologies.

## Transforming the way we use and generate energy

### Managing the energy demand



Develop smart green "zero energy" buildings and development through innovative low impact design.



Improve the energy-efficiency of existing buildings through retrofitting.



Invest in smart grid infrastructure and technologies.



Promote energy efficiency.



Install energy efficient street lighting.

### Developing Auckland's low carbon energy options.



Remove regulatory barriers to encourage:

- developing renewable generation (including wind and solar photovoltaics) on a large scale
- uptake of small-scale distributed generation.



Protect the key transmission corridors.



Develop combined heat and power (CHP) schemes and waste to energy (WTE) conversions using residual organic waste.



Stimulate widespread adoption of low-carbon technologies.



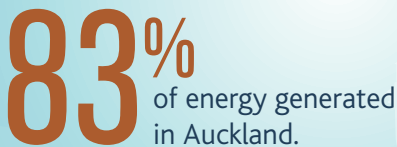
Apply precinct and district scale approaches to optimise renewable energy generation and smart grid networks.

## AUCKLAND 2040

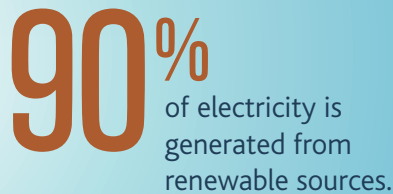
All properties have access to 'smart' grid networks and technologies.



Solar photovoltaics (PV) and wind energy will account for



Local large scale wind generation will power the equivalent of



Solar photovoltaics (PV) on buildings will power the equivalent of



We reduce the energy used in street lighting.

