

DEECA Factsheet

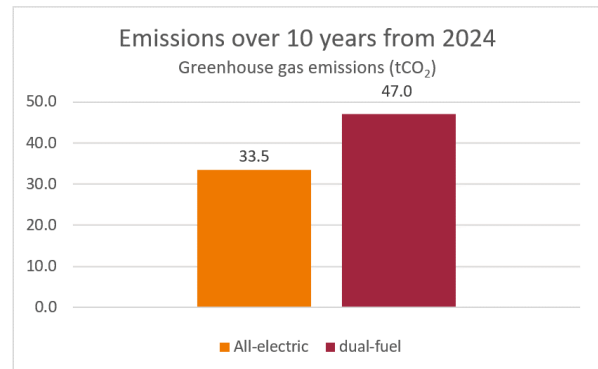
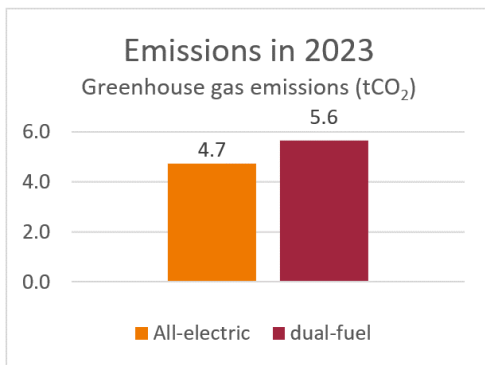
Victorian new build emissions forecast

All-Electric and Dual Fuel – August 2023

Key Messages

Department of Energy, Environment and Climate Action (DEECA) analysis concludes:

- Built today, a new, all-electric home has 16% lower emissions than a new dual fuel home, saving 0.9 t CO₂
- Over the 10-year period from 2024-2034, a new, all-electric home has 29% lower emissions than a new dual fuel home, saving 13.5 t CO₂.



Key Inputs

Input	Energy	Emissions Factor
Dual Fuel – gas input	43.5 GJ/yr	0.056 tCO ₂ /GJ
Dual Fuel – electricity input	4.3 MWh/yr	0.748 tCO ₂ /MWh
All-electric home input	6.3 MWh/yr	0.748 tCO ₂ /MWh

Household energy inputs

- New home built with 7-star building shell
- High efficiency, multi-split air conditioning systems used for space heating (high efficiency conversion of around 400%)

Emissions factors

- Scope 2 electricity emissions based on AEMO Step Change scenario and scope 3 from DCCEEW¹
- Scope 1 and 3 gas emissions from DCCEEW²

¹ Australian National Greenhouse Accounts Factors (dceew.gov.au) Table 1

² Australian National Greenhouse Accounts Factors (dceew.gov.au) Table 4 and Table 5. Table 5 notes the following “Scope 3 emission factors do not include fugitive emission leakage but do include the combustion associated with low pressure natural gas distribution pipeline networks.”