

Emissions Factors September 2025

Australia

Background

EdenSuite uses emission factors published by the Federal Department of Climate Change, Energy, the Environment and Water Efficiency (DCEEW) in their National Greenhouse Account (NGA) factors. These factors are used for Scope 1 and 2 emissions and some Scope 3 (e.g. Waste). In September 2024 DCEEW simplified and aligned reporting so that one table provided factors for both NGA and NGERs. NGA factors from the year before should be applied to the following year's emissions. For example, the NGA Factors released in September 2024 should be applied to 2024-25 reporting. Where no factors are provided by DCEEW other sources are used, primarily DEFRA (UK) for air travel and Victorian EPA for paper.

Links

- Department of Climate Change, Energy, Environment and Water, [National Greenhouse Account Factors, September 2025](#)
- Environment Protection Authority Victoria (EPA Victoria), [Greenhouse Gas Inventory Management Plan 2020-2021](#)
- The UK Government, [UK.gov Greenhouse gas reporting: conversion factors 2025](#)

Emissions factors

- To access the complete set of current and historical emissions factors available in Eden Suite, run the Emission Factors register report.
- The FRD and GHG Inventory reports include the "Factors" tab which lists all the emission factors used in creating the report.
- The Electricity emission factor tables below are reproduced from the National Greenhouse Account Factors 2025.

Table 1 Indirect (scope 2 and scope 3) location-based emission factors associated with the consumption and losses of purchased or acquired electricity

State, Territory or grid description	Scope 2 Emission Factors (kg CO ₂ -e/kWh)	Scope 3 Emission Factors (kg CO ₂ -e/kWh)
New South Wales and Australian Capital Territory	0.64	0.03
Victoria	0.78	0.09
Queensland	0.67	0.09
South Australia	0.22	0.04
Western Australia - South West Interconnected System (SWIS)	0.50	0.06

State, Territory or grid description	Scope 2 Emission Factors (kg CO ₂ -e/kWh)	Scope 3 Emission Factors (kg CO ₂ -e/kWh)
Western Australia - North Western Interconnected System (NWIS)	0.56	0.09
Tasmania	0.20	0.03
Northern territory - Darwin Katherine Interconnected System (DKIS)	0.56	0.09
National	0.62	0.07

Sources: Primary data sources comprise National Greenhouse and Energy Reporting (Measurement) Determination 2008 (Schedule 1), Australian Energy Statistics, Clean Energy Regulator, and AEMO data and Department of Climate Change, Energy, the Environment and Water.

Table 2 Indirect (scope 2 and scope 3) market-based emission factors associated with the consumption and losses of purchased or acquired electricity

Residual Mix Factor for the market-based method	Scope 2 Emission Factors (kg CO ₂ -e/kWh)	Scope 3 Emission Factors (kg CO ₂ -e/kWh)
National	0.81	0.11

Sources: Primary data sources comprise National Greenhouse and Energy Reporting (Measurement) Determination 2008 (Schedule 1), Australian Energy Statistics, Clean Energy Regulator, and AEMO data and Department of Climate Change, Energy, the Environment and Water.

The ACT is currently the only state with a JRPP. The JRPP for the ACT for the 2025-26 reporting period is 80.32%.

<https://cer.gov.au/schemes/renewable-energy-target/renewable-energy-target-liability-and-exemptions/renewable-power-percentage>

2025 Renewable Power Percentage (RPP) 17.91%