# PUBLIC DISCLOSURE STATEMENT

2XE PTY LTD

ORGANISATION CERTIFICATION
FY2023–24

Australian Government

# Climate Active
# Public Disclosure Statement

An Australian Government Initiative

| | |
|---|---|
| NAME OF CERTIFIED ENTITY | 2XE Pty Ltd |
| REPORTING PERIOD | Financial year 1 July 2023 – 30 June 2024<br>Arrears report |
| DECLARATION | *To the best of my knowledge, the information provided in this public disclosure statement is true and correct and meets the requirements of the Climate Active Carbon Neutral Standard.*<br>  |
| | Nick Palousis<br>Managing Director<br>18/06/2025 |

Australian Government
Department of Climate Change, Energy, the Environment and Water



Version 9.

# 1.CERTIFICATION SUMMARY

| | |
|---|---|
| TOTAL EMISSIONS OFFSET | 76 $tCO_2$-e |
| CARBON OFFSETS USED | 100% CERs |
| RENEWABLE ELECTRICITY | 100% |
| CARBON ACCOUNT | Prepared by: 2XE PTY LTD |
| TECHNICAL ASSESSMENT | 27 November 2024 for FY 2023-24<br>Rachel Brdanovic<br>Tandem Energy<br>Next technical assessment due: FY27 |

Contents

# 2. CERTIFICATION INFORMATION

## Description of certification

The carbon neutral certification under the Climate Active Carbon Offset Standard covers the organisation emissions of 2XE Pty Ltd (ABN: 24 149 188 125). We are a carbon and energy management consultancy with our office located in North Adelaide, South Australia. We provide services to clients both in South Australia and nationally.

Additionally, a certification claim is made for 2XE's net zero strategy, renewable energy, resource efficiency and sustainability consulting services, which includes travel, office equipment and other Scope 3 emissions. The FY23-24 service certification claim is provided in a separate Public Disclosure Statement.

## Organisation description

2XE Pty Ltd (ABN: 24 149 188 125), trading as 2XE, is a carbon and energy management consultancy, located in North Adelaide, South Australia. The boundary approach for this certification is the operational control approach.

During the certification period, 2XE operations moved from a leased office to one where the organisation has significantly more control over building operations.

# 3.EMISSIONS BOUNDARY

## Inside the emissions boundary

All emission sources listed in the emissions boundary are part of the carbon neutral claim.

**Quantified emissions** have been assessed as relevant and are quantified in the carbon inventory. This may include emissions that are not identified as arising due to the operations of the certified entity, however are **optionally included**.

**Non-quantified emissions** have been assessed as relevant and are captured within the emissions boundary, but are not measured (quantified) in the carbon inventory. All material emissions are accounted for through an uplift factor. Further detail is available at Appendix C.

## Outside the emissions boundary

**Excluded emissions** are those that have been assessed as not relevant to an organisation's operations and are outside of its emissions boundary or are outside of the scope of the certification. These emissions are not part of the carbon neutral claim. Further detail is available at Appendix D.

**Inside emissions boundary**

**Quantified**

- Accommodation
- Carbon neutral products and services
- Cleaning and chemicals
- Construction Materials and Services
- Electricity
- Food
- Horticulture and Agriculture
- ICT services and equipment
- Machinery and vehicles
- Office equipment and supplies
- Postage, courier and freight
- Products
- Professional services
- Refrigerants
- Roads and landscape
- Stationary energy and fuels
- Transport (air)
- Transport (land and sea)
- Waste
- Water
- Working from home

**Non-quantified**

N/A

**Outside emission boundary**

**Excluded**

N/A

# 4.EMISSIONS REDUCTIONS

## Emissions reduction strategy

**Target**. 2XE Pty Ltd is continuing its commitment to reduce emissions across the value chain (scopes 1, 2 and 3) by 40% by 2030, from the 2021 Financial Year base year.

**Transport**. Increased staffing costs has delayed procurement of an electric vehicle, however this is anticipated to happen in FY2025. This is expected to reduce emissions from staff commute and business travel by 15%.

**Waste**. 2XE is close to achieving 100% diversion of recyclable products from landfill disposal, the target being by 2025. This has been achieved by increasing the number of recycling bins in the office and improving staff education.

**Energy**. Being in their own premises during this certification year, 2XE was able to carry out some upgrades and improvements, now having full operational control over elements that were previously under the control of a landlord (electricity contract, gas hot water, energy efficiency measures). For the first part of the FY 2XE was under a 100% renewable energy contract with the electricity retailer and Solar PV was installed in November 2023. The old reverse cycle AC was replaced in August 2023 for better efficiency, and the gas HWS was replaced in May 2024.

**Procurement**. A significant amount of emissions come from procurement of professional services. Where possible, 2XE will continue to select Climate Active businesses in its procurement and will continue to support non-Climate Active suppliers to pursue certification as a way of promoting the required decarbonisation of the economy to meet climate emission targets.

## Emissions reduction actions

2XE now uses onsite solar (with 100% GreenPower if required) maintaining scope 2 emissions to zero.

Diversion of resources from landfill has continued to improve through better segregation and monitoring

# 5.EMISSIONS SUMMARY

## Emissions over time

| Emissions since base year | | | |
|---|---|---|---|
| | | Total $tCO_2$-e (without uplift) | Total $tCO_2$-e (with uplift) |
| Base year/Year 1: | 2020-2021 | 23.2 | 24.36 |
| Year 2: | 2021-2022 | 20.7 | 20.7 |
| Year 3: | 2022-23 | 47.9 | 50.3 |
| Year 4: | 2023-24 | 71.71 | 75.3 |

## Significant changes in emissions

The following elements have increased both overall emissions and emissions intensity:

- Overall business growth

- Improved record keeping

| Significant changes in emissions | | | |
|---|---|---|---|
| **Emission source** | **Previous year emissions** ($t CO_2$-e) | **Current year emissions** ($t CO_2$-e) | **Reason for change** |
| **Building and facility maintenance and repair services (incl. trades, body corporate and strata)** | 5.39 | 7.69 | Emissions from Construction materials and services moved to this category (professional services) |
| **Business services** | 5.75 | 9.24 | Increase in business activities due to growth |
| **Technical services** | 0.00 | 15.18 | Previously emissions from this activity were reported under business services. Made it more specific by separating from business services |

## Use of Climate Active carbon neutral products, services, buildings or precincts

2XE has purchased Climate Active certified carbon neutral products for their Service inventory and certification, presented in the corresponding Public Disclosure Statement.

## Emissions summary

The electricity summary is available in Appendix B. Electricity emissions were calculated using a market-based approach.

| Emission category | Scope 1 emissions ($tCO_2$-e) | Scope 2 emissions ($tCO_2$-e) | Scope 3 emissions ($tCO_2$-e) | Total emissions (t $CO_2$-e) |
|---|---|---|---|---|
| Accommodation and facilities | 0.00 | 0.00 | 0.00 | 0.00 |
| Cleaning and Chemicals | 0.00 | 0.00 | 0.52 | 0.52 |
| Climate Active carbon neutral products and services | 0.00 | 0.00 | 0.00 | 0.00 |
| Construction Materials and Services | 0.00 | 0.00 | 0.00 | 0.00 |
| Electricity | 0.00 | 0.00 | 0.00 | 0.00 |
| Food | 0.00 | 0.00 | 2.02 | 2.02 |
| Horticulture and Agriculture | 0.00 | 0.00 | 0.00 | 0.00 |
| ICT services and equipment | 0.00 | 0.00 | 3.49 | 3.49 |
| Machinery and vehicles | 0.00 | 0.00 | 0.34 | 0.34 |
| Office equipment & supplies | 0.00 | 0.00 | 7.67 | 7.67 |
| Postage, courier and freight | 0.00 | 0.00 | 0.08 | 0.08 |
| Products | 0.00 | 0.00 | 0.17 | 0.17 |
| Professional Services | 0.00 | 0.00 | 46.91 | 46.91 |
| Refrigerants | 0.14 | 0.00 | 0.00 | 0.14 |
| Roads and landscape | 0.00 | 0.00 | 0.00 | 0.00 |
| Stationary Energy (gaseous fuels) | 0.12 | 0.00 | 0.02 | 0.14 |
| Stationary Energy (liquid fuels) | 0.00 | 0.00 | 0.00 | 0.00 |
| Stationary Energy (solid fuels) | 0.00 | 0.00 | 0.00 | 0.00 |
| Transport (Air) | 0.00 | 0.00 | 0.00 | 0.00 |
| Transport (Land and Sea) | 0.00 | 0.00 | 9.00 | 9.00 |
| Waste | 0.00 | 0.00 | 0.71 | 0.71 |
| Water | 0.00 | 0.00 | 0.11 | 0.11 |
| Working from home | 0.00 | 0.00 | 0.42 | 0.42 |
| **Total emissions ($tCO_2$-e)** | **0.25** | **0.00** | **71.46** | **71.71** |

## Uplift factors

An uplift factor is an upwards adjustment to the total carbon inventory to account for relevant emissions that cannot be reasonably quantified or estimated. This conservative accounting approach helps ensure the integrity of the carbon neutral claim.

| **Reason for uplift factor** | **$tCO_2$-e** |
|---|---|
| Uplift to account for any uncertainties in data collection | 3.59 |
| Total of all uplift factors ($tCO_2$-e) | 3.59 |
| **Total emissions footprint to offset ($tCO_2$-e)**<br>*(total emissions from summary table + total of all uplift factors)* | **75.3** |

# 6. CARBON OFFSETS

## Eligible offsets retirement summary

This certification has taken an in-arrears offsetting approach. The total emissions to offset is 75.3 t CO2-e. The total number of eligible offsets used in this report is 76. Of the total eligible offsets used, 0 were previously banked and 76 were newly purchased and retired.

**Offsets retired for Climate Active certification**

| Type of offset unit | Quantity used for this reporting period | Percentage of total units used |
|---|---|---|
| Certified Emissions Reductions (CERs) | 76 | 100% |

| Project name | Type of offset unit | Registry | Date retired | Serial number | Vintage | Total quantity retired | Quantity used in previous reporting periods | Quantity banked for future reporting periods | Quantity used for this reporting period | Percentage of total used this reporting period |
|---|---|---|---|---|---|---|---|---|---|---|
| Biomass Energy Conservation Programme | CER | ANREU | 9/12/2024 | MW-5-1675022-2-2-0-10182 - MW-5-1675122-2-2-0-10182 | CP2 | 101 | 25* | 0 | 76 | 100% |

* note that the 25 CERs have been allocated to 2XE's FY24 service certification.

## Co-benefits

The Biomass Energy Conservation Programme in Malawi aims to reduce household air pollution and deforestation by promoting the use of the locally produced Chitetezo Mbaula stove. These stoves are made from local materials and are more efficient than traditional three-stone fires, reducing particulate emissions by 46%, carbon monoxide by 44%, and firewood consumption by up to 80%. With Malawi's severe deforestation and limited access to electricity, the project addresses urgent needs in cooking practices for rural families, who rely on wood for fuel. Additionally, each stove prevents about 2 tons of CO2 equivalent emissions per family annually.

The programme has a wide range of co-benefits.

Environmentally, it helps mitigate deforestation, reduce soil erosion, and improve air quality by lowering smoke emissions, which reduces the incidence of respiratory diseases such as tuberculosis, asthma, and pneumonia, particularly among women and children.

Socially, the project provides income for over 2,000 people, primarily women, who manufacture and market the stoves. This promotes:

- job creation,
- education and skills development,
- and gender empowerment in rural areas.

Economically, the programme enhances household resilience by lowering firewood costs and reducing the time spent gathering wood. The stove design also improves safety, reducing the risks of burns and accidents in homes. Additionally, the project receives funding from CO2 credit sales, attracting investment and fostering self-reliance through local production. The initiative contributes to sustainable development by addressing key issues such as air quality, employment, and energy access, while promoting technological transfer and local ingenuity.

# 7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

## Renewable Energy Certificate (REC) summary

N/A

# APPENDIX A: ADDITIONAL INFORMATION

N/A

# APPENDIX B: ELECTRICITY SUMMARY

There are two international best-practice methods for calculating electricity emissions – the location-based method and the market-based method. Reporting electricity emissions under both methods is called dual reporting.

Dual reporting of electricity emissions is useful, as it provides different perspectives of the emissions associated with a business's electricity usage.

Location-based method:

The location-based method provides a picture of a business's electricity emissions in the context of its location, and the emissions intensity of the electricity grid it relies on. It reflects the average emissions intensity of the electricity grid in the location (State) in which energy consumption occurs. The location-based method does not allow for any claims of renewable electricity from grid-imported electricity usage.

Market-based method:

The market-based method provides a picture of a business's electricity emissions in the context of its renewable energy investments. It reflects the emissions intensity of different electricity products, markets and investments. It uses a residual mix factor (RMF) to allow for unique claims on the zero emissions attribute of renewables without double-counting.

For this certification, electricity emissions have been set by using the **market-based approach**.

## Market Based Approach Summary

| Market Based Approach | Activity Data (kWh) | Emissions (kg $CO_2$-e) | Renewable Percentage of total |
|---|---|---|---|
| Behind the meter consumption of electricity generated | 388 | 0 | 7% |
| **Total non-grid electricity** | **388** | **0** | **7%** |
| LGC purchased and retired (kWh) (including PPAs) | 0 | 0 | 0% |
| GreenPower | 5,185 | 0 | 93% |
| Climate Active certified - Precinct/Building (voluntary renewables) | 0 | 0 | 0% |
| Climate Active certified - Precinct/Building (LRET) | 0 | 0 | 0% |
| Climate Active certified - Precinct/Building jurisdictional renewables (LGCs surrendered) | 0 | 0 | 0% |
| Climate Active certified - Electricity products (voluntary renewables) | 0 | 0 | 0% |
| Climate Active certified - Electricity products (LRET) | 0 | 0 | 0% |
| Climate Active certified - Electricity products jurisdictional renewables (LGCs surrendered) | 0 | 0 | 0% |
| Jurisdictional renewables (LGCs surrendered) | 0 | 0 | 0% |
| Jurisdictional renewables (LRET) (applied to ACT grid electricity) | 0 | 0 | 0% |
| Large Scale Renewable Energy Target (applied to grid electricity only) | 971 | 0 | 17% |
| Residual electricity | -971 | -883 | 0% |
| **Total renewable electricity (grid + non grid)** | **6,544** | **0** | **117%** |
| **Total grid electricity** | **5,185** | **0** | **110%** |
| **Total electricity (grid + non grid)** | **5,573** | **0** | **117%** |
| Percentage of residual electricity consumption under operational control | 100% | | |
| **Residual electricity consumption under operational control** | **-971** | **-883** | |
| Scope 2 | -864 | -786 | |
| Scope 3 (includes T&D emissions from consumption under operational control) | -107 | -97 | |
| **Residual electricity consumption not under operational control** | **0** | **0** | |
| Scope 3 | 0 | 0 | |

| | |
|---|---|
| **Total renewables (grid and non-grid)** | **117.42%** |
| **Mandatory** | **17.42%** |
| **Voluntary** | **93.04%** |
| **Behind the meter** | **6.96%** |
| **Residual scope 2 emissions (t $CO_2$-e)** | **-0.79** |
| **Residual scope 3 emissions (t $CO_2$-e)** | **-0.10** |
| **Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t $CO_2$-e)** | **0.00** |
| **Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t $CO_2$-e)** | **0.00** |
| **Total emissions liability (t $CO_2$-e)** | **0.00** |
| *Figures may not sum due to rounding. Renewable percentage can be above 100%* | |

## Location Based Approach Summary

| Location Based Approach | Activity Data (kWh) total | Under operational control | | | Not under operational control | |
|---|---|---|---|---|---|---|
| **Percentage of grid electricity consumption under operational control** | **100%** | **(kWh)** | **Scope 2 Emissions (kg $CO_2$-e)** | **Scope 3 Emissions (kg $CO_2$-e)** | **(kWh)** | **Scope 3 Emissions (kg $CO_2$-e)** |
| ACT | 0 | 0 | 0 | 0 | 0 | 0 |
| NSW | 0 | 0 | 0 | 0 | 0 | 0 |
| SA | 5,185 | 5,185 | 1,296 | 415 | 0 | 0 |
| VIC | 0 | 0 | 0 | 0 | 0 | 0 |
| QLD | 0 | 0 | 0 | 0 | 0 | 0 |
| NT | 0 | 0 | 0 | 0 | 0 | 0 |
| WA | 0 | 0 | 0 | 0 | 0 | 0 |
| TAS | 0 | 0 | 0 | 0 | 0 | 0 |
| **Grid electricity (scope 2 and 3)** | **5,185** | **5,185** | **1,296** | **415** | **0** | **0** |
| ACT | 0 | 0 | 0 | 0 | | |
| NSW | 0 | 0 | 0 | 0 | | |
| SA | 388 | 388 | 0 | 0 | | |
| VIC | 0 | 0 | 0 | 0 | | |
| QLD | 0 | 0 | 0 | 0 | | |
| NT | 0 | 0 | 0 | 0 | | |
| WA | 0 | 0 | 0 | 0 | | |
| TAS | 0 | 0 | 0 | 0 | | |
| **Non-grid electricity (behind the meter)** | **388** | **388** | **0** | **0** | | |
| **Total electricity (grid + non grid)** | **5,573** | | | | | |

| | |
|---|---|
| **Residual scope 2 emissions (t $CO_2$-e)** | **1.30** |
| **Residual scope 3 emissions (t $CO_2$-e)** | **0.41** |
| **Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t $CO_2$-e)** | **1.30** |
| **Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t $CO_2$-e)** | **0.41** |
| **Total emissions liability (t $CO_2$-e)** | **1.71** |

## Operations in Climate Active buildings and precincts

N/A

## Climate Active carbon neutral electricity products

N/A

# APPENDIX C: INSIDE EMISSIONS BOUNDARY

## Non-quantified emission sources

The following emissions sources have been assessed as relevant, are captured within the emissions boundary, but are not measured (quantified) in the carbon inventory. They have been non-quantified due to one of the following reasons:

1. **Immaterial** <1% for individual items and no more than 5% collectively
2. **Cost effective** Quantification is not cost effective relative to the size of the emission but uplift applied.
3. **Data unavailable** Data is unavailable but uplift applied. A data management plan must be put in place to provide data within 5 years.
4. **Maintenance** Initial emissions non-quantified but repairs and replacements quantified.

| Relevant non-quantified emission sources | Justification reason |
|---|---|
| N/A | |

## Data management plan for non-quantified sources

There are no non-quantified sources in the emission boundary that require a data management plan.

# APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

## Excluded emission sources

The below emission sources have been assessed as not relevant to this organisation's operations and are outside of its emissions boundary. These emissions are not part of the carbon neutral claim. Emission sources considered for relevance must be included within the certification boundary if they meet two of the five relevance criteria. Those which only meet one condition of the relevance test can be excluded from the certification boundary.

Emissions tested for relevance are detailed below against each of the following criteria:

1. **Size** The emissions from a particular source are likely to be large relative to the organisation's electricity, stationary energy and fuel emissions.

2. **Influence** The responsible entity has the potential to influence the reduction of emissions from a particular source.

3. **Risk** The emissions from a particular source contribute to the organisation's greenhouse gas risk exposure.

4. **Stakeholders** Key stakeholders deem the emissions from a particular source are relevant.

5. **Outsourcing** The emissions are from outsourced activities previously undertaken within the organisation's boundary, or from outsourced activities typically undertaken within the boundary for comparable organisations.

## Excluded emissions sources summary

| Emission sources tested for relevance | Size | Influence | Risk | Stakeholders | Outsourcing | Justification |
|---|---|---|---|---|---|---|
| N/A | | | | | | |

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