



PUBLIC DISCLOSURE STATEMENT

TOKYO GAS AUSTRALIA

ORGANISATION CERTIFICATION

CY2022

Australian Government
Climate Active
Public Disclosure Statement



NAME OF CERTIFIED ENTITY	Tokyo Gas Australia
REPORTING PERIOD	1 January 2022 – 31 December 2022
DECLARATION	<p><i>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.</i></p> <p><i>Signature here</i></p> <p>藤井 英一郎</p> <p>Name of signatory Eiichiro Fujii Position of signatory Chief Executive Officer Date 20 October 2023</p>



Australian Government
**Department of Industry, Science,
Energy and Resources**

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Version March 2022. To be used for FY20/21/CY2021 reporting onwards.



1. CERTIFICATION SUMMARY

TOTAL EMISSIONS OFFSET	310 tCO ₂ -e
OFFSETS BOUGHT	100% VCU
RENEWABLE ELECTRICITY	18.64%
TECHNICAL ASSESSMENT	02/08/2021 Michaela Hermanova Ndevr Environmental Next technical assessment due: CY24

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2. CARBON NEUTRAL INFORMATION

Description of certification

This Public Disclosure Statement (PDS) is in relation to Tokyo Gas Australia's (ABN 46 102 349 557) ongoing reporting as a carbon neutral certification under Climate Active. The emissions reported in this PDS are for CY2022. This covers Tokyo Gas Australia's office in Perth.

The operational boundary has been defined based on an operational control test, in accordance with the principles of the National Greenhouse and Energy Reporting Act 2007. The methods used for collating data, performing calculations and presenting the carbon account are in accordance with the Climate Active standards, the Greenhouse Gas Protocol and the National Greenhouse and Energy Reporting Measurement Determination 2008.

Where possible, the calculation methodologies and emission factors used in this inventory are derived from the National Greenhouse Accounts (NGA) Factors in accordance with "Method 1" from the National Greenhouse and Energy Reporting (Measurement) Determination 2008. The greenhouse gases considered within the inventory are those that are commonly reported under the Kyoto Protocol; carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O) and synthetic gases - hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) sulfur hexafluoride (SF₆) and nitrogen trifluoride (NF₃). These have been expressed as carbon dioxide equivalents (CO₂-e) using relative global warming potentials (GWPs).

Organisation description

Tokyo Gas Australia is a wholly owned subsidiary of Tokyo Gas Co. Ltd., which is a Japanese utility company, listed on the Tokyo Stock Exchange, that supplies gas and Japan's largest provider of city gas, serving more than 11 million customers for over 130 years, primarily in the Tokyo metropolitan area.

Tokyo Gas Australia holds the following subsidiaries and invests in LNG project from through each subsidiary:

- Tokyo Gas Darwin LNG Pty Ltd (which holds a 3.066% interest in the Darwin LNG Project and associated infrastructure);
- Tokyo Gas Pluto Pty Ltd (which holds a 5% interest in the Pluto LNG Project and associated infrastructures);
- Tokyo Gas Gorgon Pty Ltd (which holds a 1% interest in the Gorgon LNG Project and associated infrastructures);
- Tokyo Gas QCLNG Pty Ltd (which holds a 1.25% interest in the Queensland Curtis LNG Project and associated infrastructures);
- Tokyo Gas Ichthys Pty Ltd (which holds a 1.575% interest in the Ichthys LNG Project and associated infrastructures); and
- Tokyo Gas Ichthys F&E Pty Ltd (which holds a 1.575% interest in the Permit WA285-P)

"Being Climate Active demonstrates our initiative to achieve net zero emissions in Australia."

The primary activities of Tokyo Gas Australia are investment and participation in various joint ventures that own and operate the LNG projects for the production and supply of liquefied natural gas and condensate for export, and the production and supply of domestic gas for sale within Australia. Tokyo Gas Australia is not an operator of the projects, rather, participates as a minority joint venture partner.

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 or precinct'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

Electricity (purchased and base building)

Petrol

Purchased goods and services (including business, legal and technical services, office equipment, entertainment, printing and stationery, telecommunications, mailing services, entertainment)

Business travel including air travel, accommodation and car travel

Employee Commuting

Waste (including general waste and recycling)

Water

Non-quantified

Refrigerants

Outside emission boundary

Excluded

n/a

4. EMISSIONS REDUCTIONS

Emissions reduction strategy

Tokyo Gas Australia commits to reduce its overall emissions by 15% by 2030, compared to a CY2021 base year.

This will be achieved by reductions in Scope 2 emissions, including:

- Reducing our energy needs by systematically replacing all light bulbs with LEDs by 2030.
- Investing progressively GreenPower for all TGAU offices commencing 2023 (subject to confirmation from office building).
- Prioritising the selection of energy efficient options for future equipment purchases commencing 2023.

Scope 3 emissions will be reduced by:

- Installing a waste reduction and separation policy within our office and process for measuring the waste output commencing 2023.
- Inputting digitalisation practices in office management activities to reduce the need for office supplies and printing commencing 2023.

Tokyo Gas Australia is committed to taking positive action to reduce our impact on the environment.

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:	2021	259	
Year 2:	2022	310	

Significant changes in emissions

Emission source name	Previous year emissions (t CO ₂ -e)	Current year emissions (t CO ₂ -e)	Detailed reason for change
Electricity (market-based method, scope 2)	108.74	94.39	Due to moving to a smaller office than previous year
Business services	23.30	41.33	There were a lot of projects that required professional services
Legal services	12.88	37.69	There were a lot of projects that required professional services
Long economy class flights (>3,700km)	6.51	60.07	The number of business trips increased due to easing of movement restrictions from covid.

Use of Climate Active carbon neutral products and services

No Climate Active products or services were used during this reporting period.

Organisation emissions summary

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

Emission category	Sum of Scope 1 (TCO2e)	Sum of Scope 2 (TCO2e)	Sum of Scope 3 (TCO2e)	Sum of Total Emissions (TCO2e)
Accommodation and facilities	0.00	0.00	4.40	4.40
Electricity	0.00	83.36	11.03	94.39
ICT services and equipment	0.00	0.00	3.31	3.31
Office equipment & supplies	0.00	0.00	8.16	8.16
Postage, courier and freight	0.00	0.00	0.13	0.13
Professional Services	0.00	0.00	84.34	84.34
Transport (Air)	0.00	0.00	76.62	76.62
Transport (Land and Sea)	12.11	0.00	17.69	29.81
Waste	0.00	0.00	7.68	7.68
Water	0.00	0.00	0.85	0.85
Total net emissions	12.11	94.39	203.18	309.68

Uplift factors

N/A

6. CARBON OFFSETS

Offsets retirement approach

In arrears		
1.	Total number of eligible offsets banked from last year's report	0
2.	Total emissions footprint to offset for this report	309.68
3.	Total eligible offsets required for this report	310
4.	Total eligible offsets purchased and retired for this report	310
5.	Total eligible offsets banked to use toward next year's report	0

Co-benefits

Across India, wind farms avoid emissions by introducing clean power to the electricity grid which would otherwise be generated by a fossil fuel fired power plant. The projects are compatible with rural land uses and allow farmers to continue growing crops and grazing livestock up to the base of the turbines. These projects help reduce power shortages and contribute to increased values on agricultural land and residential properties. They have also created new jobs and training, improved communication within remote villages and established a local immunisation program. Many local villages rely on the turbines to pump clean water to drink and to irrigate their crops.

Eligible offsets retirement summary

Offsets cancelled for Climate Active Carbon Neutral Certification											
Project description	Type of offset units	Registry	Date retired	Serial number (and hyperlink to registry transaction record)	Vintage	Stapled quantity	Eligible quantity (tCO ₂ -e)	Eligible quantity used for previous reporting periods	Eligible quantity banked for future reporting periods	Eligible quantity used for this reporting period	Percentage of total (%)
Bundled Wind Power project in Tamil Nadu managed by Enercon India Limited II	VCUs	VERRA	5 June 2024	5284-221918810-221919119-VCU-050-APX-IN-1-404-15122016-13022017-0	2016-2017		310	0	0	310	100%
Total offsets retired this report and used in this report										310	
Total offsets retired this report and banked for future reports									0		

Type of offset units	Quantity (used for this reporting period claim)	Percentage of total
Verified Carbon Units (VCUs)	310	100%



Certificate of Verified Carbon Unit (VCU) Retirement

Verra, in its capacity as administrator of the Verra Registry, does hereby certify that on 05 Jun 2024, 310 Verified Carbon Units (VCUs) were retired on behalf of:

Tokyo Gas Australia Pty Ltd

Project Name

Bundled Wind Power project in Tamil Nadu managed by Enercon India Limited II

VCU Serial Number

5284-221918810-221919119-VCU-050-APX-IN-1-404-15122016-13022017-0

Additional Certifications

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7. RENEWABLE ENERGY CERTIFICATE (REC) SUMMARY

Renewable Energy Certificate (REC) summary

N/A

APPENDIX A: ADDITIONAL INFORMATION

N/A

APPENDIX B: ELECTRICITY SUMMARY

Electricity emissions are calculated using a **market-based approach**.

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.

Market Based Approach Summary			
Market Based Approach	Activity Data (kWh)	Emissions (kg CO2-e)	Renewable Percentage of total
Behind the meter consumption of electricity generated	0	0	0%
Total non-grid electricity	0	0	0%
LGC Purchased and retired (kWh) (including PPAs)	0	0	0%
GreenPower	0	0	0%
Climate Active precinct/building (voluntary renewables)	0	0	0%
Precinct/Building (LRET)	0	0	0%
Precinct/Building jurisdictional renewables (LGCs surrendered)	0	0	0%
Electricity products (voluntary renewables)	0	0	0%
Electricity products (LRET)	0	0	0%
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)	22,645	0	19%
Residual Electricity	98,840	94,392	0%
Total renewable electricity (grid + non grid)	22,645	0	19%
Total grid electricity	121,485	94,392	19%
Total electricity (grid + non grid)	121,485	94,392	19%
Percentage of residual electricity consumption under operational control	100%		
Residual electricity consumption under operational control	98,840	94,392	
Scope 2	87,287	83,359	
Scope 3 (includes T&D emissions from consumption under operational control)	11,553	11,033	
Residual electricity consumption not under operational control	0	0	
Scope 3	0	0	

Total renewables (grid and non-grid)	18.64%
Mandatory	18.64%
Voluntary	0.00%
Behind the meter	0.00%
Residual scope 2 emissions (t CO2-e)	83.36
Residual scope 3 emissions (t CO2-e)	11.03
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	83.36
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	11.03
Total emissions liability (t CO2-e)	94.39

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	
		(kWh)	Scope 2 Emissions (kg CO2-e)	Scope 3 Emissions (kg CO2-e)	(kWh)	Scope 3 Emissions (kg CO2-e)
Percentage of grid electricity consumption under operational control	100%					
ACT	0	0	0	0	0	0
NSW	0	0	0	0	0	0
SA	0	0	0	0	0	0
VIC	0	0	0	0	0	0
QLD	0	0	0	0	0	0
NT	0	0	0	0	0	0
WA	121,485	121,485	61,957	4,859	0	0
TAS	0	0	0	0	0	0
Grid electricity (scope 2 and 3)	121,485	121,485	61,957	4,859	0	0
ACT	0	0	0	0		
NSW	0	0	0	0		
SA	0	0	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)	0	0	0	0		
Total electricity (grid + non grid)	121,485					

Residual scope 2 emissions (t CO2-e)	61.96
Residual scope 3 emissions (t CO2-e)	4.86
Scope 2 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	61.96
Scope 3 emissions liability (adjusted for already offset carbon neutral electricity) (t CO2-e)	4.86
Total emissions liability (t CO2-e)	66.82

Operations in Climate Active buildings and precincts

Operations in Climate Active buildings and precincts	Electricity consumed in Climate Active certified building/precinct (kWh)	Emissions (kg CO2-e)
N/A	0	0
<p><i>Climate Active carbon neutral electricity is not renewable electricity. These electricity emissions have been offset by another Climate Active member through their building or precinct certification. This electricity consumption is also included in the market based and location based summary tables. Any electricity that has been sourced as renewable electricity by the building/precinct under the market based method is outlined as such in the market based summary table.</i></p>		

Climate Active carbon neutral electricity products

Climate Active carbon neutral product used	Electricity claimed from Climate Active electricity products (kWh)	Emissions (kg CO2-e)
N/A	0	0
<p><i>Climate Active carbon neutral electricity is not renewable electricity. These electricity emissions have been offset by another Climate Active member through their electricity product certification. This electricity consumption is also included in the market based and location based summary tables. Any electricity that has been sourced as renewable electricity by the electricity product under the market based method is outlined as such in the market based summary table.</i></p>		

APPENDIX C: INSIDE EMISSIONS BOUNDARY

Non-quantified emission sources

Emissions from refrigerants were assessed to be immaterial: <1% of the total carbon inventory. Therefore, as the data on fugitive emissions from Tokyo Gas Australia's Perth office refrigerants is not readily available or cost-effective to obtain, the emission source was not quantified.

The following sources emissions 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	(1) Immaterial	(2) Cost effective (but uplift applied)	(3) Data unavailable (but uplift applied & data plan in place)	(4) Maintenance
Refrigerants	Yes			

APPENDIX D: OUTSIDE EMISSIONS BOUNDARY

Excluded emission sources

N/A



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