

TABLE 1 SECTORAL REPORT FOR ENERGY
(Sheet 1 of 1)

Inventory 2024

Submission 2026

Taiwan

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂	CH ₄	N ₂ O	NO _x	CO	NMVOC	SO _x	Total GHG emissions ⁽¹⁾
	(kt)							CO ₂ equivalents (kt) ⁽²⁾
Total Energy	245,271.49	31.36	4.04	NE	NE	NE	NE	247,219.38
1.A. Fuel combustion activities (sectoral approach)	245,271.49	18.79	4.04	NE	NE	NE	NE	246,867.43
1.A.1. Energy industries	172,978.17	5.00	2.03	NE	NE	NE	NE	173,655.29
1.A.1.a. Public electricity and heat production	155,202.58	4.77	2.00	NE	NE	NE	NE	155,865.30
1.A.1.b. Petroleum refining	8,791.17	0.19	0.03	NE	NE	NE	NE	8,803.27
1.A.1.c. Manufacture of solid fuels and other energy industries	8,984.42	0.04	0.00	NE	NE	NE	NE	8,986.72
1.A.2. Manufacturing industries and construction	29,025.34	2.27	0.32	NE	NE	NE	NE	29,174.55
1.A.2.a. Iron and steel	8,317.00	0.29	0.04	NE	NE	NE	NE	8,335.85
1.A.2.b. Non-ferrous metals	293.61	0.01	0.00	NE	NE	NE	NE	294.05
1.A.2.c. Chemicals	8,484.35	0.62	0.09	NE	NE	NE	NE	8,526.31
1.A.2.d. Pulp, paper and print	1,914.83	0.22	0.03	NE	NE	NE	NE	1,929.23
1.A.2.e. Food processing, beverages and tobacco	859.72	0.04	0.00	NE	NE	NE	NE	862.10
1.A.2.f. Non-metallic minerals	3,804.71	0.31	0.05	NE	NE	NE	NE	3,825.87
1.A.2.g. Other	5,351.12	0.79	0.11	NE	NE	NE	NE	5,401.15
1.A.3. Transport	33,891.79	10.52	1.65	NE	NE	NE	NE	34,622.49
1.A.3.a. Domestic aviation	197.74	0.00	0.01	NE	NE	NE	NE	199.25
1.A.3.b. Road transportation	33,412.22	10.49	1.62	NE	NE	NE	NE	34,136.67
1.A.3.c. Railways	21.66	0.00	0.01	NE	NE	NE	NE	23.91
1.A.3.d. Domestic navigation	260.17	0.02	0.01	NE	NE	NE	NE	262.66
1.A.3.e. Other transportation	NE	NE	NE	NE	NE	NE	NE	NE
1.A.4. Other sectors	9,376.18	1.00	0.04	NE	NE	NE	NE	9,415.09
1.A.4.a. Commercial/institutional	3,946.31	0.46	0.02	NE	NE	NE	NE	3,965.05
1.A.4.b. Residential	3,814.56	0.32	0.01	NE	NE	NE	NE	3,825.20
1.A.4.c. Agriculture/forestry/fishing	1,615.30	0.22	0.01	NE	NE	NE	NE	1,624.85
1.A.5. Other	NE	NE	NE	NE	NE	NE	NE	NE
1.A.5.a. Stationary	NE	NE	NE	NE	NE	NE	NE	NE
1.A.5.b. Mobile	NE	NE	NE	NE	NE	NE	NE	NE
1.B. Fugitive emissions from fuels	NE	12.57	NE	NE	NE	NE	NE	351.96
1.B.1. Solid fuels	NO	NO	NO	NO	NO	NO	NO	NO
1.B.1.a. Coal mining and handling	NO	NO	NO	NO	NO	NO	NO	NO
1.B.1.b. Fuel transformation	NO	NO	NO	NO	NO	NO	NO	NO
1.B.1.c. Other	NO	NO	NO	NO	NO	NO	NO	NO
1.B.2. Oil and natural gas and other emissions from energy pr	NO	12.57	NO	NE	NE	NE	NE	351.96
1.B.2.a. Oil	NO	0.17	NO	NE	NE	NE	NE	4.64
1.B.2.b. Natural gas	NO	12.40	NO	NE	NE	NE	NE	347.11
1.B.2.c. Venting and flaring	NO	0.01	NO	NE	NE	NE	NE	0.21
1.B.2.d. Other	NE	NE	NE	NE	NE	NE	NE	NE

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂	CH ₄	N ₂ O	NO _x	CO	NMVOC	SO _x	Total GHG emissions ⁽¹⁾
	(kt)							CO ₂ equivalents (kt) ⁽²⁾
1.C. CO₂ Transport and storage	NE							NE
1.C.1. Transport of CO ₂	NE							NE
1.C.2. Injection and storage	NE							NE
1.C.3. Other	NE							NE
1.D. Memo items:⁽³⁾								
1.D.1. International bunkers	13,289.64	0.43	0.36	NE	NE	NE	NE	13,398.05
1.D.1.a. Aviation	9,258.58	0.06	0.26	NE	NE	NE	NE	9,329.02
1.D.1.b. Navigation	4,031.06	0.37	0.10	NE	NE	NE	NE	4,069.03
1.D.2. Multilateral operations	NO	NO	NO	NO	NO	NO	NO	NO
1.D.3. CO₂ emissions from biomass	NO							NO
1.D.4. CO₂ captured	NO							NO
1.D.4.a. For domestic storage	NO							NO
1.D.4.b. For storage in other countries	NO							NO

⁽¹⁾ "Total GHG emissions" does not include NO_x, CO, NMVOC and SO_x.

⁽²⁾ As per decision 18/CMA.1, annex, para. 37, this inventory uses the 100-year time-horizon GWP values from the IPCC Fifth Assessment Report, or 100-year time-horizon GWP values from a subsequent IPCC assessment report as agreed upon by the CMA, to report aggregate emissions and removals of GHGs, expressed in CO₂ eq. Additional metrics (e.g. global temperature potential) may also be used to report supplemental information on aggregate emissions and removals of GHGs, expressed in CO₂ eq. In such cases, information on the values of the metrics used and the IPCC assessment report they were sourced from shall be provided in the NID.

⁽³⁾ The inventory reports emissions from international aviation and marine bunkers and multilateral operations, as well as CO₂ emissions from biomass, under memo items. These emissions should not be included in the national total emissions from the energy sector. Amounts of biomass used as fuel are included in the national energy consumption but the corresponding CO₂ emissions are not included in the national total, as it is assumed that the biomass is produced in a sustainable manner. If the biomass is harvested at an unsustainable rate, net CO₂ emissions are accounted for as a loss of biomass stocks in the LULUCF.

Note: Minimum level of aggregation is needed to protect confidential business and military information, where it would identify particular entity's/entities' confidential data.

Documentation Box:

- A detailed description of the energy sector should be provided in chapter 3 ("Energy" (CRT sector 1)) of the NID. Use this documentation box to provide references to relevant sections of the NID, if any additional information and/or further details are needed to explain the content of this table, particularly how feedstocks and non-energy use of fuels have been accounted for in the inventory under the energy or industrial processes and product use sector, in accordance with decision 18/CMA.1, annex, para. 54.

TABLE 2(I) SECTORAL REPORT FOR INDUSTRIAL PROCESSES AND PRODUCT USE
Sources of fluorinated substances

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂	CH ₄	N ₂ O	HFCs ⁽¹⁾	PFCs ⁽¹⁾	Unspecified mix of HFCs and PFCs ⁽¹⁾	SF ₆	NF ₃	NO _x	CO	NMVOC	SO _x	Total GHG emissions ⁽²⁾
	(kt)			CO ₂ equivalent (kt) ⁽³⁾			(kt)						CO ₂ equivalents (kt) ⁽³⁾
2. Total industrial processes	15,299.45	0.79	3.61	1,807.29	875.85	NO	0.02	0.04	NE	NE	NE	NE	20,197.18
2.A. Mineral industry	6,049.53	NO	NO	NO	NO	NO	NO	NO	NE	NE	NE	NE	6,049.53
2.A.1. Cement production	4,676.14											NE	4,676.14
2.A.2. Lime production	214.00												214.00
2.A.3. Glass production	38.38												38.38
2.A.4. Other process uses of carbonates	1,121.00								NE	NE	NE	NE	1,121.00
2.B. Chemical industry	1,181.80	0.79	1.97	NO	NO	NO	NO	NO	NE	NE	NE	NE	1,725.29
2.B.1. Ammonia production	NE	NE	NE						NE	NE	NE	NE	NE
2.B.2. Nitric acid production			0.79						NE				208.83
2.B.3. Adipic acid production	NE		NE						NE	NE	NE		NE
2.B.4. Caprolactam, glyoxal and glyoxylic acid production	NE		1.18								NE	NE	312.64
2.B.5. Carbide production	NE	NE							NE	NE	NE	NE	NE
2.B.6. Titanium dioxide production	NE												NE
2.B.7. Soda ash production	NE												NE
2.B.8. Petrochemical and carbon black production	1,181.80	0.79							NE	NE	NE	NE	1,203.82
2.B.9. Fluorochemical production				NO	NO	NO	NO	NO					NO
2.B.10. Other	NE	NE	NE	NO	NO	NO	NO	NO	NE	NE	NE	NE	NO, NE
2.C. Metal industry	8,054.42	0.00	NE	NE	NO,NE	NE	0.00	NE	NO,NE	NO,NE	NO,NE	NO,NE	8,163.51
2.C.1. Iron and steel production	8,033.86	NE							NE	NE	NE	NE	8,033.86
2.C.2. Ferroalloys production	0.16	0.00							NE	NE	NE	NE	0.16
2.C.3. Aluminium production	NO				NO		NO		NO	NO	NO	NO	NO
2.C.4. Magnesium production	NE			NE	NE	NE	0.00		NE	NE	NE	NE	109.09
2.C.5. Lead production	4.04								NE	NE	NE	NE	4.04
2.C.6. Zinc production	16.37								NE	NE	NE	NE	16.37
2.C.7. Other	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
2.D. Non-energy products from fuels and solvent use⁽⁴⁾	0.00006	NA,NE	NA,NE						NE	NE	NE	NE	0.00006
2.D.1. Lubricant use	0.00006	NA	NA						NE	NE	NE	NE	0.00006
2.D.2. Paraffin wax use	NO	NA	NA						NE	NE	NE	NE	NO, NE
2.D.3. Other	NE	NE	NE						NE	NE	NE	NE	NE
2.E. Electronics industry			1.64	119.82	875.85	NO	0.02	0.04					2,483.79
2.E.1. Integrated circuit or semiconductor			1.60	118.36	804.59	NO	0.01	0.04					2,319.07
2.E.2. TFT flat panel display			0.04	1.46	71.26	NO	0.00	0.00					164.73
2.E.3. Photovoltaics				NE	NE	NO	NE	NE					NO, NE
2.E.4. Heat transfer fluid				NE	NE	NO	NE	NE					NO, NE
2.E.5. Other			NE	NE	NE	NO	NE	NE					NO, NE

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂	CH ₄	N ₂ O	HFCs ⁽¹⁾	PFCs ⁽¹⁾	Unspecified mix of HFCs and PFCs ⁽¹⁾	SF ₆	NF ₃	NO _x	CO	NMVOC	SO _x	Total GHG emissions ⁽²⁾
	(kt)			CO ₂ equivalent (kt) ⁽³⁾			(kt)						CO ₂ equivalents (kt) ⁽³⁾
2.F. Product uses as substitutes for ODS				1,687.47	NE	NO	NE	NE					1,687.47
2.F.1. Refrigeration and air conditioning				1,676.04	NE	NO	NE	NE					1,676.04
2.F.2. Foam blowing agents				NE	NE	NO	NE	NE					NO,NE
2.F.3. Fire protection				11.43	NE	NO	NE	NE					11.43
2.F.4. Aerosols				NE	NE	NO	NE	NE					NO,NE
2.F.5. Solvents				NE	NE	NO	NE	NE					NO,NE
2.F.6. Other applications				NE	NE	NO	NE	NE					NO,NE
2.G. Other product manufacture and use	NE	NE	NE	NO,NE	NO	NO	0.003	NO	NE	NE	NE	NE	73.89
2.G.1. Electrical equipment				NO	NO	NO	NO	NO					NO
2.G.2. SF ₆ and PFCs from other product use					NO		0.003						73.89
2.G.3. N ₂ O from product uses			NE										NE
2.G.4. Other	NE	NE	NE	NE	NE	NO	NO	NO	NE	NE	NE	NE	NO,NE
2.H. Other⁽⁵⁾	13.70	NE	NE	NE	NE	NO	NE	NE	NE	NE	NE	NE	13.70
2.H.1. Pulp and Paper	NE	NE	NE	NE	NE	NO	NE	NE	NE	NE	NE	NE	NO, NE
2.H.2. Food and Beverages Industry	13.70	NE	NE	NE	NE	NO	NE	NE	NE	NE	NE	NE	13.70
2.H.3. Other	NE	NE	NE	NE	NE	NO	NE	NE	NE	NE	NE	NE	NO, NE

⁽¹⁾ Emissions of HFCs, PFCs, unspecified mix of HFCs and PFCs, and other F-gases are to be expressed in CO₂ eq. Data on disaggregated emissions of HFCs and PFCs are to be provided in table 2(II).

⁽²⁾ "Total GHG emissions" does not include NO_x, CO, NMVOC and SO_x.

⁽³⁾ As per decision 18/CMA.1, annex, para. 37, this inventory uses the 100-year time-horizon GWP values from the IPCC Fifth Assessment Report, or 100-year time-horizon GWP values from a subsequent IPCC assessment report as agreed by the CMA, to report aggregate emissions and removals of GHGs, expressed in CO₂ eq. Additional metrics (e.g. global temperature potential) may also be used to report supplemental information on aggregate emissions and removals expressed in CO₂ eq. In such cases, information on the values of the metrics used and the IPCC assessment report they were sourced from shall be provided in the NID.

Note: Minimum level of aggregation is needed to protect confidential business and military information, where it would identify particular entity's/entities' confidential data.

<p>Documentation box:</p> <ul style="list-style-type: none"> A detailed description of the industrial processes and product use sector should be provided in chapter 4 ("Industrial processes and product use" (CRT sector 2)) of the NID. Use this documentation box to provide references to relevant information in the NID, if any additional information and/or further details are needed to explain the contents of this table, particularly how feedstocks and non-energy use of fuels have been accounted for in the inventory under the energy or industrial sector in accordance with decision 18/CMA.1, annex, para. 54.
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TABLE 3 SECTORAL REPORT FOR AGRICULTURE
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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂	CH ₄	N ₂ O	NO _x	CO	NM VOC	SO _x	Total GHG emissions ⁽¹⁾
	(kt)							CO ₂ equivalents (kt) ⁽²⁾
3. Total agriculture	18.14	71.93	4.75	NE	NE	NE	NE	3,289.92
3.A. Enteric fermentation		22.20						621.48
3.A.1. Cattle ⁽³⁾		13.10						366.70
<i>Option A:</i>								
3.A.1.a. Dairy cattle		7.41						207.57
3.A.1.a. Dairy cattle		5.68						159.13
3.A.2. Sheep		NE						NE
3.A.3. Swine		7.81						218.69
3.A.4. Other livestock		1.29						36.08
3.B. Manure management		28.80	0.49			NE		936.89
3.B.1. Cattle ⁽³⁾		0.38	0.00			NE		10.77
<i>Option A:</i>								
3.B.1.a. Dairy cattle		0.29	0.00			NE		8.30
3.B.1.b. Non-dairy cattle		0.09	NO			NE		2.47
3.B.2. Sheep		NE	NE			NE		NE
3.B.3. Swine		26.03	0.21			NE		784.16
3.B.4. Other livestock		2.38	0.28			NE		141.95
3.B.5. Indirect N ₂ O emissions			NA					
3.C. Rice cultivation		20.93				NE	NE	585.95
3.D. Agricultural soils^(4,5)			4.25	NE	NE			1,126.90
3.D.1. Direct N ₂ O emissions from managed soils			2.98					788.88
3.D.1.a. Inorganic N fertilizers			2.48					656.69
3.D.1.b. Organic N fertilizers			0.34					91.38
3.D.1.c. Urine and dung deposited by grazing animals			NE					NE
3.D.1.d. Crop residues			0.15					40.81
3.D.1.e. Mineralization/immobilization associated with loss/gain of soil organic matter			NO					NO
3.D.1.f. Cultivation of organic soils (i.e. histosols)			NO					NO
3.D.1.g. Other			NO					NO
3.D.2. Indirect N ₂ O Emissions from managed soils			1.28					338.02
3.E. Prescribed burning of savannahs		NE	NE	NE	NE	NE	NE	NE
3.F. Field burning of agricultural residues		0.02	0.0004	NE	NE	NE	NE	0.57
3.G. Liming	NE							NE
3.H. Urea application	18.14							18.14
3.I. Other carbon-containing fertilizers	NE							NE
3.J. Other (please specify)	NE	NE	NE	NE	NE	NE	NE	NE

(1) "Total GHG emissions" does not include NO_x, CO, NMVOC and SO_x.

(2) As per decision 18/CMA.1, annex, para. 37, this inventory uses the 100-year time-horizon GWP values from the IPCC Fifth Assessment Report, or 100-year time-horizon GWP values from a subsequent IPCC assessment as agreed upon by the CMA, to report aggregate emissions and removals of GHGs, expressed in CO₂ eq. Additional metrics (e.g. global temperature potential) may also be used to report supplemental information on aggregate emissions and removals of GHGs, expressed in CO₂ eq. In such cases, information on the values of the metrics used and the IPCC assessment report they were sourced from shall be provided in the NID.

(3) The sum for cattle is calculated on the basis of entries made under either option A (dairy and non-dairy cattle) or option B (other disaggregation of cattle categories).

(4) Direct N₂O emissions generated by manure in the system "Pasture, range and paddock" are to be reported under direct N₂O emissions from managed soils. See also the 2006 IPCC Guidelines (vol. 4, chap. 10.5).

(5) Indirect N₂O emissions generated by manure in the system "Pasture, range and paddock" are to be reported under indirect N₂O emissions from managed soils. See also the 2006 IPCC Guidelines (vol. 4, chap. 10.5).

Note: Minimum level of aggregation is needed to protect confidential business and military information, where it would identify particular entity's/entities' confidential data.

Note: The 2006 IPCC Guidelines do not provide methodologies for calculating (CH₄) emissions and CH₄ and N₂O removals from agricultural soils or for calculating CO₂ emissions from the prescribed burning of savannahs and burning of agricultural residues. Parties that have estimated such emissions should provide in the NID the additional information (AD and EFs) used to derive these estimates and include in the documentation box of the corresponding sectoral background data tables a reference to the relevant section of the NID.

Documentation box:

- A detailed description of the agriculture sector should be provided in chapter 5 ("Agriculture" (CRT sector 3)) of the NID. Use this documentation box to provide references to relevant sections of the NID, if any additional and/or further details are needed to explain the contents of this table.
- If estimates are reported for category 3.J Other, use this documentation box to provide information on activities covered under this category and a reference to the section of the NID where background information can be found.

TABLE 4 SECTORAL REPORT FOR LAND USE, LAND-USE CHANGE AND FORESTRY

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	Net CO ₂ emissions/removals ^(1,2)	CH ₄ ⁽²⁾	N ₂ O ⁽²⁾	NO _x	CO	NM VOC	Total GHG emissions/removals ⁽³⁾
	(kt)						CO ₂ equivalents (kt) ⁽⁴⁾
4. Total LULUCF	-21,757.32	NE	NE	NE	NE	NE	-21,757.32
4.A. Forest land	-21,757.32	NE	NE	NE	NE	NE	-21,757.32
4.A.1. Forest land remaining forest land	-21,365.90	NE	NE	NE	NE	NE	-21,365.90
4.A.2. Land converted to forest land	-391.42	NE	NE	NE	NE	NE	-391.42
4.B. Cropland	NE	NE	NE	NE	NE	NE	NE
4.B.1. Cropland remaining cropland	NE	NE	NE	NE	NE	NE	NE
4.B.2. Land converted to cropland	NE	NE	NE	NE	NE	NE	NE
4.C. Grassland	NE	NE	NE	NE	NE	NE	NE
4.C.1. Grassland remaining grassland	NE	NE	NE	NE	NE	NE	NE
4.C.2. Land converted to grassland	NE	NE	NE	NE	NE	NE	NE
4.D. Wetlands ⁽⁵⁾	NE	NE	NE	NE	NE	NE	NE
4.D.1. Wetlands remaining wetlands	NE	NE	NE	NE	NE	NE	NE
4.D.2. Land converted to wetlands	NE	NE	NE	NE	NE	NE	NE
4.E. Settlements	NE	NE	NE	NE	NE	NE	NE
4.E.1. Settlements remaining settlements	NE	NE	NE	NE	NE	NE	NE
4.E.2. Land converted to settlements	NE	NE	NE	NE	NE	NE	NE
4.F. Other land ⁽⁶⁾	NE	NE	NE	NE	NE	NE	NE
4.F.1. Other land remaining other land							
4.F.2. Land converted to other land	NE	NE	NE	NE	NE	NE	NE
4.G. Harvested wood products ⁽⁷⁾	NE						NE
4.H. Other (please specify)	NE	NE	NE	NE	NE	NE	NE
NA	NE	NE	NE	NE	NE	NE	NE
Memo item:							
Emissions and subsequent removals from natural disturbances on managed lands ⁽⁸⁾	NE	NE	NE	NE	NE	NE	NE

- (1) For the purposes of reporting, the signs for removals are always negative (–) for removals and positive (+) for emissions.
- (2) For each land-use category and subcategory, this table sums the net CO₂ emissions and removals shown in tables 4.A to 4.F, and the CO₂, CH₄ and N₂O emissions shown in tables 4(I)–(IV) and 4.G.
- (3) "Total GHG emissions/removals" does not include NO_x, CO and NMVOC.
- (4) As per decision 18/CMA.1, annex, para. 37, each Party shall use the 100-year time-horizon GWP values from the IPCC Fifth Assessment Report, or 100-year time-horizon GWP values from a subsequent IPCC assessment report as agreed upon by the CMA, to report aggregate emissions and removals of GHGs, expressed in CO₂ eq. Each Party may in addition also use other metrics (e.g. global temperature potential) to report supplemental information on aggregate emissions and removals of GHGs, expressed in CO₂ eq. In such cases, the Party shall provide in the national inventory document information on the values of the metrics used and the IPCC assessment report they were sourced from.
- (5) Parties may decide not to prepare estimates for CH₄ emissions from flooded land contained in appendix 3 of vol. 4 of the 2006 IPCC Guidelines, although they may do so if they wish.
- (6) This category includes bare soil, rock, ice, and all land areas that do not fall into any of the other five categories thus enabling the total of identified land areas to match the national area.
- (7) End of life non-CO₂ emissions from HWP are covered in the energy sector or waste sector.
- (8) Parties may report the emissions and subsequent removals from natural disturbances on managed lands, in the case of a Party addressing these emissions and subsequent removals, in accordance with decision 18/CMA.1, annex, para. 55.

Note: Minimum level of aggregation is needed to protect confidential business and military information, where it would identify particular entity's/entities' confidential data.

Documentation box:

- Parties should provide a detailed description of the LULUCF sector in chapter 6 ("Land Use, Land-Use Change and Forestry" (CRT sector 4)) of the NID. Use this documentation box to provide references to relevant sections of the NID, if any additional information and/or further details are needed to understand the content of this table.
- If estimates are reported under the category 4.H. (other), use this documentation box to provide information regarding activities covered under this category and to provide a reference to the section of the NID where background information can be found.
- Parties may indicate in this documentation box whether national totals include estimates of the emissions and subsequent removals from natural disturbances on managed lands, in accordance with decision 18/CMA.1, annex, para.55.

TABLE 5 SECTORAL REPORT FOR WASTE
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	(kt)							CO ₂ equivalents (kt) ⁽²⁾
5. Total waste	914.89	51.11	0.41	NO,NE	NO,NE	NO,NE	NE	2,454.88
5.A. Solid waste disposal		19.20		NO,NE	NO,NE	NO,NE		537.72
5.A.1. Managed waste disposal sites		14.45		NE	NE	NE		404.70
5.A.2. Unmanaged waste disposal sites		4.75		NE	NE	NE		133.03
5.A.3. Uncategorized waste disposal sites		NO		NO	NO	NO		NO
5.B. Biological treatment of solid waste		0.93	0.07	NE	NE	NE		44.31
5.B.1. Composting		0.93	0.07	NE	NE	NE		44.31
5.B.2. Anaerobic digestion at biogas facilities		NE	NE	NE	NE	NE		NE
5.C. Incineration and open burning of waste	914.89	NO,NE	0.04	NE	NE	NE	NE	925.82
5.C.1. Waste incineration	914.89	NO	0.04	NE	NE	NE	NE	925.82
5.C.2. Open burning of waste	NE	NE	NE	NE	NE	NE	NE	NE
5.D. Wastewater treatment and discharge		30.98	0.30	NO	NO	NO		947.03
5.D.1. Domestic wastewater		12.60	0.29	NE	NE	NE		429.08
5.D.2. Industrial wastewater		18.38	0.01	NE	NE	NE		517.95
5.D.3. Other		NE	NE	NE	NE	NE		NE
5.E. Other (please specify)	NE	NE	NE	NE	NE	NE	NE	NE
Memo item: ⁽³⁾								
5.F.1. Long-term storage of C in waste disposal sites	NE							NE
5.F.2. Annual change in total long-term C storage	NE							NE
5.F.3. Annual change in total long-term C storage in HWP waste ⁽⁴⁾	NE							NE

(1) "Total GHG emissions" does not include NO_x, CO, NMVOC and SO_x.

(2) As per decision 18/CMA.1, annex, para. 37, this inventory uses the 100-year time-horizon GWP values from the IPCC Fifth Assessment Report, or 100-year time-horizon GWP values from a subsequent IPCC assessment report as agreed upon by the CMA, to report aggregate emissions and removals of GHGs, expressed in CO₂ eq. Additional metrics (e.g. global temperature potential) may also be used to report supplemental information on aggregate emissions and removals of GHGs, expressed in CO₂ eq. In such cases, information on the values of the metrics used and the IPCC assessment report they were sourced from shall be provided in the NID.

(3) Long-term storage of carbon in waste disposal sites, annual change in total long-term storage of carbon stored and annual change in long-term storage of carbon in HWP waste should be entered as CO₂.

(4) Carbon stored in wood, paper, cardboard, waste (equals to the annual change in stocks of HWP in solid waste disposal sites from consumption, second AD in the table for HWP).

Note: Minimum level of aggregation is needed to protect confidential business and military information, where it would identify particular entity's/entities' confidential data.

Documentation box:

- A detailed description of the waste sector should be provided in chapter 7 ("Waste" (CRT sector 5)) of the NID. Use this documentation box to provide references to relevant sections of the NID where any additional information and/or further details are needed to explain the contents of this table.
- If estimates are reported for category 5.E (other), use this documentation box to provide information on activities covered under this category and to provide reference to the section in the NID where background information can be found.

SUMMARY 2 SUMMARY REPORT FOR CO2 EQUIVALENT EMISSIONS

(Sheet 1 of 1)

Inventory 2024

Submission 2026

Taiwan

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ ⁽¹⁾	CH ₄	N ₂ O	HFCs	PFCs	Unspecified mix of HFCs and PFCs	SF ₆	NF ₃	Total
	CO ₂ equivalents (kt) ⁽²⁾								
Total (net emissions) ⁽¹⁾	239,746.65	4,345.38	3,391.92	1,807.29	875.85	0.00	542.41	694.54	251,404.05
1. Energy	245,271.49	878.15	1,069.74						247,219.38
1.A. Fuel combustion	245,271.49	526.20	1,069.74						246,867.43
1.A.1. Energy industries	172,978.17	140.06	537.06						173,655.29
1.A.2. Manufacturing industries and construction	29,025.34	63.66	85.55						29,174.55
1.A.3. Transport	33,891.79	294.60	436.09						34,622.49
1.A.4. Other sectors	9,376.18	27.88	11.04						9,415.09
1.A.5. Other	NO	NO	NO						NO
1.B. Fugitive emissions from fuels	NO	351.96	NO						351.96
1.B.1. Solid fuels	NO	NO	NO						NO
1.B.2. Oil and natural gas and other emissions from energy production	NO	351.96	NO						351.96
1.C. CO ₂ transport and storage	NO								NO
2. Industrial processes and product use	15,299.45	22.02	955.62	1,807.29	875.85	NO	542.41	694.54	20,197.18
2.A. Mineral industry	6,049.53								6,049.53
2.B. Chemical industry	1,181.80	22.01	521.47	NO	NO	NO	NO	NO	1,725.29
2.C. Metal industry	8,054.42	0.00	NO	NO	NO	NO	109.09	NO	8,163.51
2.D. Non-energy products from fuels and solvent use	0.00	NO	NO						0.00
2.E. Electronic Industry				119.82	875.85	NO	359.43	694.54	2,049.65
2.F. Product uses as ODS substitutes				1,687.47	NO	NO	NO	NO	1,687.47
2.G. Other product manufacture and use	NO	NO	NO	NO	NO	NO	73.89	NO	73.89
2.H. Other	13.70	NO	NO	NO	NO	NO	NO	NO	13.70
3. Agriculture	18.14	2,014.16	1,257.62						3,289.92
3.A. Enteric fermentation		621.48							621.48
3.B. Manure management		806.28	130.61						936.89
3.C. Rice cultivation		585.95							585.95
3.D. Agricultural soils		0.00	1,126.90						1,126.90
3.E. Prescribed burning of savannahs		NO	NO						NO
3.F. Field burning of agricultural residues		0.46	0.11						0.57
3.G. Liming	NO								NO
3.H. Urea application	18.14								18.14
3.I. Other carbon-containing fertilizers	NE								NO
3.J. Other	NO	NO	NO						NO

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ ⁽¹⁾	CH ₄	N ₂ O	HFCs	PFCs	Unspecified mix of HFCs and PFCs	SF ₆	NF ₃	Total
	CO ₂ equivalents (kt) ⁽²⁾								
4. Land use, land-use change and forestry⁽¹⁾	-21,757.32	NO	NO						-21,757.32
4.A. Forest land	-21,757.32	NO	NO						-21,757.32
4.B. Cropland	NO	NO	NO						NO
4.C. Grassland	NO	NO	NO						NO
4.D. Wetlands	NO	NO	NO						NO
4.E. Settlements	NO	NO	NO						NO
4.F. Other land	NO	NO	NO						NO
4.G. Harvested wood products	0.00								NO
4.H. Other	NO	NO	NO						NO
5. Waste	914.89	1,431.05	108.94						2,454.88
5.A. Solid waste disposal		537.72							537.72
5.B. Biological treatment of solid waste		25.91	18.39						44.31
5.C. Incineration and open burning of waste	914.89	NO	10.93						925.82
5.D. Waste water treatment and discharge		867.42	79.62						947.03
5.E. Other	NE	NE	NE						NE
6. Other (as specified in summary 1)	NO	NO	NO	NO	NO	NO	NO	NO	NO

Memo items:⁽³⁾									
1.D.1. International bunkers	9,258.58	1.81	68.63						9,329.02
1.D.1.a. Aviation	4,031.06	10.25	27.72						4,069.03
1.D.1.b. Navigation	NE	NE	NE						NE
1.D.2. Multilateral operations	NO	NO	NO						0.37
1.D.3. CO₂ emissions from biomass	NO								NO
1.D.4. CO₂ captured	NO								NO
5.F.1. Long-term storage of C in waste disposal sites	NO								NO
Indirect N₂O			0.00						

Indirect CO₂⁽⁴⁾	0.00								
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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂ ⁽¹⁾	CH ₄	N ₂ O	HFCs	PFCs	Unspecified mix of HFCs and PFCs	SF ₆	NF ₃	Total
	CO ₂ equivalents (kt) ⁽²⁾								

Total CO₂ equivalent emissions without LULUCF									273,161.36
Total CO₂ equivalent emissions with LULUCF									251,404.05
Total CO₂ equivalent emissions, including indirect CO₂, without LULUCF									NA
Total CO₂ equivalent emissions, including indirect CO₂, with LULUCF									NA

⁽¹⁾ For CO₂ from LULUCF, the net emissions/removals are to be reported. For reporting purposes, the signs are always negative (-) for removals and positive (+) for emissions .

⁽²⁾ As per decision 18/CMA.1, annex, para. 37, this inventory uses the 100-year time-horizon GWP values from the IPCC Fifth Assessment Report, or 100-year time-horizon GWP values from a subsequent assessment report as agreed upon by the CMA, to report aggregate emissions and removals of GHGs, expressed in CO₂ eq. Additional metrics (e.g. global temperature potential) may also be used to report supplemental information on aggregate emissions and removals of GHGs, expressed in CO₂ eq. In such cases, information on the values of the metrics used and the IPCC assessment report they were sourced from shall be provided in the NID.

⁽³⁾ The inventory reports emissions from international aviation and international navigation and multilateral operations, as well as CO₂ emissions from biomass and CO₂ captured, under memo items. The emissions should not be included in the national total emissions from the energy sector. Amounts of biomass used as fuel are included in the national energy consumption but the corresponding CO₂ emissions are not included in the national total as it is assumed that the biomass is produced in a sustainable manner. If the biomass is harvested at an unsustainable rate, net CO₂ emissions are accounted for as a loss of biomass stocks in the Land Use, Land-use Change and Forestry sector.

⁽⁴⁾ In accordance with the modalities, procedures and guidelines (chapter II), where indirect CO₂ is reported, the national totals shall be provided with and without indirect CO₂.

Note: Minimum level of aggregation is needed to protect confidential business and military information, where it would identify particular entity's/entities' confidential data.

SUMMARY 3 SUMMARY REPORT FOR METHODS AND EMISSION FACTORS USED

Inventory 2024

Submission 2026

Taiwan

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GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂		CH ₄		N ₂ O		HFCs		PFCs		SF ₆		Unspecified mix of HFCs and PFCs		NF ₃	
	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor
1. Energy	T1, T3	D	T1, T3	D	T1	D										
1.A. Fuel combustion	T1	D	T1	D	T1	D										
1.A.1. Energy industries	T1	D	T1	D	T1	D										
1.A.2. Manufacturing industries and construction	T1	D	T1	D	T1	D										
1.A.3. Transport	T1	D	T1	D	T1	D										
1.A.4. Other sectors	T1	D	T1	D	T1	D										
1.A.5. Other	NE	NA	NE	NA	NE	NA										
1.B. Fugitive emissions from fuels	T1, T3	D	T1, T3	D	T1	D										
1.B.1. Solid fuels	NE	NE	T1	D	NE	NE										
1.B.2. Oil and natural gas and other emissions from energy production	T1, T3	D	T1, T3	D	T1	D										
1.C. CO ₂ transport and storage	NE	NE														
2. Industrial processes	T1, T2, T3	CS, D	T1	CS, D	T1, T2	CS, D	T1, T2	CS, D	T2	D	T2, T3	CS, D	T2	D	T2	D
2.A. Mineral industry	T1, T2	CS, D														
2.B. Chemical industry	T1, T3	CS, D	T1	CS, D	T1	CS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2.C. Metal industry	T1, T3	CS, D	T1	D	NA	NA	NA	NA	NA	NA	T2	CS	NA	NA	NA	NA
2.D. Non-energy products from fuels and solvent use	T1	D	NA	NA	NA	NA										
2.E. Electronic Industry					T2	D	T2	D	T2	D	T2	D	T2	D	T2	D
2.F. Product uses as ODS substitutes							T1	CS, D	NA	NA	NA	NA	NA	NA	NA	NA
2.G. Other product manufacture and use	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	T3	CS, D	NA	NA	NA	NA
2.H. Other	T1	CS, D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
3. Agriculture	T1	D	T1, T2, T3	CS, D	T1, T3	CS, D										
3.A. Enteric fermentation			T1, T3	CS, D												
3.B. Manure management			T1, T3	CS, D	T1, T3	CS, D										
3.C. Rice cultivation			T2	CS												
3.D. Agricultural soils			NE	NA	T1	D										
3.E. Prescribed burning of savannahs			NE	NE	NE	NE										
3.F. Field burning of agricultural residues			T1	D	T1	D										
3.G. Liming	NE	NE														
3.H. Urea application	T1	D														
3.I. Other carbon-containing fertilizers	NE	NE														
3.J. Other	NA	NA	NA	NA	NA	NA										

GREENHOUSE GAS SOURCE AND SINK CATEGORIES	CO ₂		CH ₄		N ₂ O		HFCs		PFCs		SF ₆		Unspecified mix of HFCs and PFCs		NF ₃	
	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor	Method applied	Emission factor
4. Land use, land-use change and forestry	T2	CS	NE	NE	NE	NE										
4.A. Forest land	T2	CS	NE	NE	NE	NE										
4.B. Cropland	NE	NE	NE	NE	NE	NE										
4.C. Grassland	NE	NE	NE	NE	NE	NE										
4.D. Wetlands	NE	NE	NE	NE	NE	NE										
4.E. Settlements	NE	NE	NE	NE	NE	NE										
4.F. Other land	NE	NE	NE	NE	NE	NE										
4.G. Harvested wood products	NE	NE														
4.H. Other	NE	NE														
5. Waste	T1	D	T1,T2,T3	CS, D	T1,T3	D										
5.A. Solid waste disposal			T2	D												
5.B. Biological treatment of solid waste			T1	D	T1	D										
5.C. Incineration and open burning of waste	T1	D	NE	NE	T1	D										
5.D. Waste water treatment and discharge			T1,T2,T3	CS, D	T1,T3	D										
5.E. Other	NE	NE	NE	NE	NE	NE										
6. Other (as specified in summary 1)	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

Use the following notation keys to specify the method applied:

D (IPCC default)
CR (CORINAIR)

T1 (IPCC tier 1)
CS (country-specific)

T1a, T1b, T1c (IPCC tier 1a, tier 1b and tier 1c, respectively)
M (model)

T2 (IPCC tier 2)
RA (reference approach)

T3 (IPCC tier 3)
OTH (other)

If using more than one method within one category, list all the relevant methods. Explanations regarding country-specific methods, other methods or any modifications to the default IPCC methods, as well as information regarding the use of different methods per category where more than one method is indicated, should be provided in the documentation box. Also use the documentation box to explain the use of notation OTH.

Use the following notation keys to specify the emission factor used:

D (IPCC default)
M (model)

CR (CORINAIR)
PS (plant-specific)

CS (country-specific)
OTH (other)

Where a mix of EFs has been used, list all the methods in the relevant cells and provide explanations in the documentation box. Also use the documentation box to explain the use of the notation key "OTH".

Note: Minimum level of aggregation is needed to protect confidential business and military information, where it would identify particular entity's/entities' confidential data.

Documentation box:

- Full information on methodological issues, such as methods and emission factors used, should be provided in the relevant sections of the NID. Use this documentation box to provide references to relevant sections of the NID, if any additional information and further details are needed to understand the content of this table.
- Where a mix of methods/EFs has been used within one category, use this documentation box to specify those methods/emission factors for the various sub-category where they have been applied.
- Where the notation OTH (other) has been entered in this table, use this documentation box to specify those other methods/EFs.