





Opinion Statement

Greenhouse Gas Emissions

Verification Opinion Statement

This is to verify that: Chunghwa Telecom Co., Ltd.

No. 21-3, Sec. 1, Xinyi Rd.

Zhongzheng Dist.

Taipei City, 100012

Taiwan

中華電信股份有限公司

臺灣 台北市

中正區信義路一段 21-3 號

100012

Holds Statement No:

GHGEV 768108

Verification opinion statement

As a result of carrying out verification procedures in accordance with ISO 14064-3:2006, it is the opinion of BSI with reasonable assurance that:

- The Greenhouse Gas Emissions with Chunghwa Telecom Co., Ltd. for the period from 2021-01-01 to 2021-12-31 was verified, including direct greenhouse gas emissions 17,887.470 tonnes of CO₂ equivalent and indirect greenhouse gas emissions from imported energy 716,979.259 tonnes of CO₂ equivalent.
- Excluding the overseas locations from the boundary of Chunghwa Telecom Co., Ltd.
- The purchased electricity emission factor is 0.502 kilograms of carbon dioxide equivalent per kWh, which is released by Bureau of Energy, Ministry of Economic Affairs, Taiwan in 2020.
- No material misstatements for the period from 2021-01-01 to 2021-12-31 Greenhouse Gas Emissions calculation were revealed.
- Data quality was considered acceptable in meeting the principles as set out in ISO 14064-1:2018.

The other selected indirect GHG emissions listed in the attached table on the next page were also reported in accordance with ISO 14064-1:2018 and with reference to the WRI/WBCSD Greenhouse Gas Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard and thus verified with limited assurance, and data quality was not considered unacceptable in meeting the principles as set out in ISO 14064-1: 2018.

For and on behalf of BSI:

Managing Director BSI Taiwan, Peter Pu

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The aggregate greenhouse gas emissions information across all of Taiwan reported by Chunghwa Telecom Co., Ltd.

for the period from 2021-01-01 to 2021-12-31 is listed below:

ic perior	a 110111 2021-01-01 to 2021-12-31 is listed below.		
	EMISSIONS	Notes	tonnes CO₂e
1. Di	17,887.470		
1.1	Stationary combustion		1831.4284
1.2	Mobile combustion		11,533.0694
1.3	Industrial processes(anthropogenic systems)	N/A	-
1.4	Fugitive(anthropogenic systems)		4,522.9723
1.5	Land use, land use change and forestry	N/A	-
Direct	emissions in tonnes of CO ₂ e from biomass		0
2. In	716,979.259		
2.1	Indirect emissions from imported electricity	location-based	,
2.1		approach	716,979.2586
Total e	734,866.729		
3. In	14,149.1999		
3.1	Upstream transportation and distribution		571.0138
3.2	Downstream transportation and distribution		141.8628
3.3	Business travels		4,771.1007
3.4	Employee commuting		8,665.2226
4. In	986,373.6061		
4.1	Emissions from purchased goods		466,201.0584
4.2	Capital goods		364,752.9818
4.5	Fuel- and energy-related activities		
4.3	(not included in scope 1 or scope 2)		135,568.0273
4.4	, , , , , , , , , , , , , , , , , , , ,	Solid waste only	1,359.3998
4.5			18,492.1388
5. In	direct GHG emissions associated with the use	e of products from the	,
or	456,312.5384		
5.1	Use of sold products		307,742.3346
5.2	End-of-life treatment of sold products		383.1154
5.3	Downstream leased assets		145,217.4281
5.4	Franchises	Scope 1 emissions (Senao)	2,969.6603

^{*} NS: Non significant.

The emission information was verified in headquarters, business groups, selected branches, and operation sites in Taiwan, and all the greenhouse gas emissions across all of the reporting company's locations are aggregated into Chunghwa Telecom Co., Ltd. as below:

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Location

Chunghwa Telecom Co., Ltd. No. 21-3, Sec. 1, Xinyi Rd. Zhongzheng Dist. Taipei City 100012 Taiwan 中華電信股份有限公司 臺灣 台北市 中正區信義路一段 21-3 號 100012

Verification Information

The Greenhouse Gas Emissions with Chunghwa Telecom Co., Ltd. excluding overseas locations for the period from 2021-01-01 to 2021-12-31 was verified, including direct greenhouse gas emissions 17,887.470 tonnes of CO₂ equivalent and indirect greenhouse gas emissions from imported energy 716,979.259 tonnes of CO₂ equivalent.

The greenhouse gas emissions information categorized by GHG Protocol and reported by Chunghwa Telecom Co., Ltd. for FY2021 is as follows:

Category of GHG Protocol		Notes	Emissions (tonnes CO ₂ e)
scope 1		Direct GHG emissions	17,887.470
scope 2		Indirect GHG emissions from imported energy	716,979.259
scope 3		Other indirect GHG emissions	1,456,835.344
Catego	ry		
		Upstream emissions from production of products and services purchased	
	Purchased goods &	by the reporting company including smart phones, smart watches and	
1	services	other 3C products etc. (estimated use combining EEIO and activity data	
		with LCA emission factors)	466,201.0584
		Upstream emissions from production of capital goods (tangible and	
2	Capital goods	intangible assets) including equipment for IDC, telecommunication etc.	
		(estimated use combining EEIO and activity data with LCA emission	
		factors)	364,752.9818
_	Fuel- and energy-	Upstream emissions related to production of electricity and fuel used by	
	related activities	locations of the reporting company (estimated use combining activity data	
3	(not included in scope	and LCA emission factor- cradle to gate)	
	1 or scope 2)		135,568.0273
4	Upstream	Upstream emission related to the transportation and distribution services	
	transportation and	by suppliers of the reporting company (estimated use spend-based	
	distribution	method: GHG Protocol Scope 3 Evaluator-Open IO emissions data)	571.0138
5	Waste generated in operations	Emissions related to the treatment of domestic and industrial solid wastes	
		generated from operations of the reporting company (estimated by activity	
		data with LCA emission factors of incineration treatment)	1,359.3998
6		Emissions from the transportation of employees on business (estimated	,
	Business travels	use spend-based method: GHG Protocol Scope 3 Evaluator-WIOD emission	
		factors)	4,771.1007

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Catego	ory of GHG Protocol	Notes	Emissions (tonnes CO ₂ e)
7		Emissions from the transportation of employees between homes and	
	Employee commuting	workplaces (estimate based on employee personnel information and	
		emission factors for each mode of transport)	8,665.2226
8	Upstream leased assets	Emissions form scope 1 & scope 2 emissions in leased asset from suppliers	
8		(estimated by collecting the emissions data from individual leased assets)	18,492.1388
	Downstream	Emission from the transportation and distribution of products sold by the	,
9	transportation and	reporting company (estimated based on spend-based method: GHG	
	distribution	Protocol Scope 3 Evaluator-Open IO emissions data)	141.8628
11	Use of sold products	Emissions from use of the products sold by the reporting company	
		including smart phones, smart watches, ICT equipment, MOD set-top	
		boxes etc. (estimated based on product directly energy consumption as	
		well as the quantities of products sold and/or installed)	307,742.3346
12		Emissions from disposed and treatment of sold products by the reporting	·
	End-of-life treatment of	company including smart phones, smart watches and other electronic	
12	sold products	products (estimated use activity data with end-of-life of the product LCA	
		emission factor)	383.1154
13	Downstream leased	Emissions from downstream leased assets (estimated use spend-based	
	assets	data: GHG Protocol Scope 3 Evaluator-WIOD emission factors)	145,217.4281
14	Franchises	Emissions from operation of stand-alone franchises (estimated mainly	
		based on the electricity use)	2,969.6603

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