

本公司溫室氣體盤查及能源統計情形

- 一、依據金管會公告之「上市櫃公司永續發展路徑圖」，本公司屬金管會時程規劃中資本額 100 億元以上之上市櫃公司，應於其規範第一階段進行溫室氣體盤查與查證之公司(即：2023 年進行盤查；2024 年完成查證)。配合上述規範，本公司於今年 1 月 25 日起進行總公司 2021 年度組織溫室氣體盤查，並於 5 月底完成第 3 方之查證。另外，於 7 月份進行所有工務處所溫室氣體盤查作業種子人員教育訓練，並於 9 月完成 2021 年度類別一、類別二之溫室氣體自我盤查作業如下表。(備註說明：類別 1- 製程或設施之直接排放，類別 2- 使用電力或蒸汽之能源利用所產生之間接排放)

中華工程股份有限公司 BES Engineering Inc.

3. 本公司110年度溫室氣體類別排放型式排放量統計表

	類別 1				類別 2	類別 3	總排放量 ^註	
	固定排放	製程排放	移動排放	逸散排放	能源間接排放	其他間接排放		
排放量 (公噸 CO ₂ e/年)	0.0000	0.0000	10.3492	37.4233	47.7725	497.5995	0.0000	545.372
氣體別占比 (%)	0.00%	0.00%	1.90%	6.86%	8.76%	91.2404%	-	100.00%

註：依溫室氣體排放量盤查登錄管理辦法第二條第一款規定，溫室氣體排放量以公噸二氧化碳當量(公噸CO₂e)表示，並四捨五入至小數點後第三位。

二、本公司前三年能源耗用統計

全公司能源耗用統計

年度/能源類別	108	109	110
汽油(L)	300,357	221,271	258,633
柴油(L)	5,062	9,627	8,395
用電量(KWH)	2,137,519	3,219,570	5,409,585
用水量(度)	67,159	74,024	287,802

三、溫室氣體盤查查證

bsi. Opinion Statement



Greenhouse Gas Emissions Verification Opinion Statement

This is to verify that: BES Engineering Corporation
6F.
No. 12, Dongxing Rd.
Songshan Dist., Taipei City 105412
Taiwan

中華工程股份有限公司
臺灣
台北市
松山區
東興路 12 號
6 樓
105412

Holds Statement No: GHGEV 766614

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 BES Engineering Corporation for the period from 2021-01-01 to 2021-12-31 was verified, including direct greenhouse gas emissions 47.7725 tonnes of CO₂ equivalent and indirect greenhouse gas emissions from imported energy 497.5995 tonnes of CO₂ equivalent.
- 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 emission factor for electricity for the year 2021 is not published by Taiwan government so far, the emission factor used for electricity is 0.502 kilograms of Carbon Dioxide equivalent per kWh instead which may potentially result in different Greenhouse Gas Emission estimates.

The other selected indirect GHG emissions listed in the attached table on the next page were also reported 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.

The organization had determined significant indirect GHG emissions in accordance with its own pre-determined criteria in the year of 2021, and no other indirect GHG emissions have been included in the reporting boundaries except for indirect GHG emissions from imported energy.

For and on behalf of BSI:


Managing Director BSI Taiwan, Peter Pu

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Location	Verification Information
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The greenhouse gas emissions information reported by the organization for the period from 2021-01-01 to 2021-12-31 is as follows:

EMISSIONS		Notes	tonnes CO ₂ e
Category 1: Direct GHG emissions and removals			47.7725
1.1	Stationary combustion		0.0000
1.2	Mobile combustion		10.3492
1.3	Industrial processes (anthropogenic systems)		0.0000
1.4	Fugitive (anthropogenic systems)		37.4233
1.5	Land use, land use change and forestry	N/A	-
Direct emissions in tonnes of CO ₂ e from biomass			0.0000
Category 2: Indirect GHG emissions from imported energy			497.5995
2.1	Indirect emissions from imported electricity	location-based approach	497.5995
2.2	Indirect emissions from imported energy (steam, heating, cooling and compressed air)		0.0000

* NS: Non significant; N/A: Non available.

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The total emissions were verified in selected branches and representative offices, including but not limited to the following:

Location	Verification Information
BES Engineering Corporation B1F., 6F and 13-15F. No. 12, Dongxing Rd. Songshan Dist., Taipei City 105412 Taiwan 中華工程股份有限公司 臺灣 台北市 松山區 東興路 12 號 B1、6 樓、13-15 樓 105412	The Greenhouse Gas Emissions with BES Engineering Corporation for the period from 2021-01-01 to 2021-12-31 was verified, including direct greenhouse gas emissions 47.7725 tonnes of CO ₂ equivalent and indirect greenhouse gas emissions from imported energy 497.5995 tonnes of CO ₂ equivalent.



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