

Opinion Statement

Greenhouse Gas Emissions Verification Opinion Statement

This is to verify that: ZIG SHENG INDUSTRIAL CO., LTD.
2F, No. 70, Xining N. Rd.
Datong Dist.
Taipei City
103601
Taiwan

集盛實業股份有限公司
台灣
台北市
大同區
西寧北路 70 號 2 樓
103601

Holds Statement No: GHGEV 766046

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 ZIG SHENG INDUSTRIAL CO., LTD. for the period from 2021-01-01 to 2021-12-31 was verified, including direct greenhouse gas emissions 36,994.7510 tonnes of CO₂ equivalent and indirect greenhouse gas emissions from imported energy 151,731.0380 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 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 electricity and steam used by DAYUAN 5th Factory district are provided by TA-YUAN COGEN CO., LTD., and the latest emission factor is 0.9969460457 kgCO₂ per kWh and 0.2143252529 tCO₂e per tonne.

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.



For and on behalf of BSI:

Managing Director BSI Taiwan, Peter Pu

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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			36,994.7510
1.1	Stationary combustion		36,272.3385
1.2	Mobile combustion		215.6067
1.3	Industrial processes (anthropogenic systems)		0.6313
1.4	Fugitive (anthropogenic systems)		506.1804
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			151,731.0380
2.1	Indirect emissions from imported electricity	location-based approach	151,625.5900
2.2	Indirect emissions from imported energy (steam)	provided by TA-YUAN COGEN CO., LTD.	105.4480
Category 4: indirect GHG emissions from products used by organization			23,895.3424
4.1	Emissions from Purchased goods	Emissions from purchased electricity	23,895.3424
4.2	Emissions from Capital goods	NS	-
4.3	Emissions from the disposal of solid and liquid waste	NS	-
4.4	Emissions from the use of assets	NS	-
4.5	Emissions from the use of services that are not described in the above subcategories	NS	-

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

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

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Taiwan Headquarters: 2nd Floor, No. 37, Ji-Hu Rd., Nei-Hu Dist., Taipei 114, Taiwan, R.O.C.
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Verification Information

ZIG SHENG INDUSTRIAL CO., LTD. 2F, No. 70, Xining N. Rd., Datong Dist. Taipei City, 103601, Taiwan 集盛實業股份有限公司 103601 台北市大同區西寧北路 70 號 2 樓	The Greenhouse Gas Emissions with ZIG SHENG INDUSTRIAL CO., LTD. for the period from 2021-01-01 to 2021-12-31 was verified, including direct greenhouse gas emissions 36,994.7510 tonnes of CO ₂ equivalent and indirect greenhouse gas emissions from imported energy 151,731.0380 tonnes of CO ₂ equivalent.
KWEI SHAN 1st Factory district No. 60, 60-1, Dongwanshou Rd., Xinling Li, Kweishan Dist. Taoyuan City, 333025, Taiwan 龜山一廠 333025 台灣桃園市龜山區新嶺里東萬壽路 60、60-1 號	The Greenhouse Gas Emissions with the KWEI SHAN 1st Factory district for the period from 2021-01-01 to 2021-12-31 was verified, including direct greenhouse gas emissions 114.0304 tonnes of CO ₂ equivalent and indirect greenhouse gas emissions from imported energy 16,844.7104 tonnes of CO ₂ equivalent.
KUAN YIN 2nd Factory district No. 552, Sec. 1, Chenggong Rd., Kuanyin Dist. Taoyuan City, 328453, Taiwan 觀音二廠 328453 台灣桃園市觀音工業區成功路一段 522 號	The Greenhouse Gas Emissions with the KUAN YIN 2nd Factory district for the period from 2021-01-01 to 2021-12-31 was verified, including direct greenhouse gas emissions 17365.0226 tonnes of CO ₂ equivalent and indirect greenhouse gas emissions from imported energy 29,766.8450 tonnes of CO ₂ equivalent.
KUAN YIN 3th Factory district (dormitory incl.) No. 506, Sec. 1, Chenggong Rd., Kuanyin Dist. Taoyuan City, 328453, Taiwan 觀音三廠 328453 台灣桃園市觀音工業區成功路一段 506 號	The Greenhouse Gas Emissions with the KUAN YIN 3rd Factory district (dormitory incl.) for the period from 2021-01-01 to 2021-12-31 was verified, including direct greenhouse gas emissions 19120.4586 tonnes of CO ₂ equivalent and indirect greenhouse gas emissions from imported energy 56,751.6020 tonnes of CO ₂ equivalent.
KUAN YIN 4th Factory district No. 2, Ronggong S. Rd., Kuanyin Dist. Taoyuan City, 328453, Taiwan 觀音四廠 328453 台灣桃園市觀音區榮工南路 2 號	The Greenhouse Gas Emissions with the KUAN YIN 4th Factory district for the period from 2021-01-01 to 2021-12-31 was verified, including direct greenhouse gas emissions 34.7277 tonnes of CO ₂ equivalent and indirect greenhouse gas emissions from imported energy 5,845.4888 tonnes of CO ₂ equivalent.
DAYUAN 5th Factory district No. 17, Dagong Rd., Dayuan Dist. Taoyuan City, 337053, Taiwan 大園五廠 337053 桃園市大園區大工路 17 號	The Greenhouse Gas Emissions with the DAYUAN 5th Factory district for the period from 2021-01-01 to 2021-12-31 was verified, including direct greenhouse gas emissions 360.5117 tonnes of CO ₂ equivalent and indirect greenhouse gas emissions from imported energy 42,522.3918 tonnes of CO ₂ equivalent.

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