

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
10342
Taiwan, R.O.C.

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
10342

Holds Statement No: GHGEV 1569

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 the five production plants of ZIG SHENG INDUSTRIAL CO. LTD. for the period from 2018-01-01 to 2018-12-31 is 218,463.991 tonnes of CO₂ equivalent, including scope 1 emissions 40,211.7946 tonnes of CO₂ equivalent and scope 2 emissions 178,252.1953 tonnes of CO₂ equivalent.
- No material misstatements for the period from 2018-01-01 to 2018-12-31 Greenhouse Gas Emissions calculation were revealed.
- Data quality was considered acceptable in meeting the principles as set out in ISO/CNS 14064-1:2006 and the GHG Validation and Verification Guideline (行政院環保署溫室氣體查驗指引:2010).
- The emission factor for electricity for the year 2018 is not published by Taiwan government so far, the emission factor used for electricity is 0.554 kilograms of Carbon Dioxide equivalent per kWh instead which may potentially result in different Greenhouse Gas Emission estimates.
- The electricity and steam used by the DAYUAN 5th Factory district are provided by the TA-YUAN COGEN CO., LTD., and the latest emission factor is 0.7712560067 kgCO₂ per kWh and 0.2665030535 tCO₂e per tonne.

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

For and on behalf of BSI:



Managing Director BSI Taiwan, Peter Pu

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Validation and Verification
VB 001

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Location	Verification Information
ZIG SHENG INDUSTRIAL CO., LTD. 2F, No. 70, Xining N. Rd. Datong Dist. Taipei City 10342 Taiwan, R.O.C. 集盛實業股份有限公司 台北市 大同區 西寧北路 70 號 2 樓 10342	The Greenhouse Gas Emissions with the five production plants of ZIG SHENG INDUSTRIAL CO. LTD. for the period from 2018-01-01 to 2018-12-31 is 218,463.991 tonnes of CO ₂ equivalent, including scope 1 emissions 40,211.7946 tonnes of CO ₂ equivalent and scope 2 emissions 178,252.1953 tonnes of CO ₂ equivalent.
KWEI SHAN 1st Factory district No. 60, 60-1, Dongwanshou Rd. Xinling Li Kweishan Dist. Taoyuan City 33355 Taiwan, R.O.C. 龜山一廠 桃園市 龜山區 新嶺里 東萬壽路 60、60-1 號 33355	The Greenhouse Gas Emissions for the period from 2018-01-01 to 2018-12-31 is 17,533.584 tonnes of CO ₂ equivalent, including scope 1 emissions 114.9371 tonnes of CO ₂ equivalent and scope 2 emissions 17,418.6464 tonnes of CO ₂ equivalent.
KUAN YIN 2nd Factory district No. 552, Sec. 1, Chenggong Rd. Kuanyin Dist. Taoyuan City 32844, Taiwan, R.O.C. 觀音二廠 桃園市 觀音工業區 成功路一段 522 號 32844	The Greenhouse Gas Emissions for the period from 2018-01-01 to 2018-12-31 is 52,150.781 tonnes of CO ₂ equivalent, including scope 1 emissions 17,576.2147 tonnes of CO ₂ equivalent and scope 2 emissions 34,574.5661 tonnes of CO ₂ equivalent.

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Location	Verification Information
KUAN YIN 3th Factory district (dormitory incl.) No. 506, Sec. 1, Chenggong Rd. Kuanyin Dist. Taoyuan City 32844 Taiwan, R.O.C. 觀音三廠 桃園市 觀音工業區 成功路一段 506 號 32844	The Greenhouse Gas Emissions for the period from 2018-01-01 to 2018-12-31 is 77,145.494 tonnes of CO ₂ equivalent, including scope 1 emissions 17,349.0606 tonnes of CO ₂ equivalent and scope 2 emissions 59,796.4332 tonnes of CO ₂ equivalent.
KUAN YIN 4th Factory district No. 2, Ronggong S. Rd. Kuanyin Dist. Taoyuan City 32849 Taiwan, R.O.C. 觀音四廠 桃園市 觀音工業區 榮工南路 2 號 32849	The Greenhouse Gas Emissions for the period from 2018-01-01 to 2018-12-31 is 8,808.017 tonnes of CO ₂ equivalent, including scope 1 emissions 32.2138 tonnes of CO ₂ equivalent and scope 2 emissions 8,775.8032 tonnes of CO ₂ equivalent.
DAYUAN 5th Factory district No. 17, Dagong Rd. Dayuan Dist. Taoyuan City 33759 Taiwan, R.O.C. 大園五廠 桃園市 大園區 大工路 17 號 33759	The Greenhouse Gas Emissions for the period from 2018-01-01 to 2018-12-31 is 62,826.115 tonnes of CO ₂ equivalent, including scope 1 emissions 5,139.3684 tonnes of CO ₂ equivalent and scope 2 emissions 57,686.7464 tonnes of CO ₂ equivalent.

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