



## VERIFICATION STATEMENT OF GREENHOUSE GAS ASSERTIONS

Statement No. 00114-2014-AG-TWN-TAF

Page 1 of 2

### Zig Sheng Industrial Co., Ltd.

*initiate reporting of*

### Greenhouse Gas Inventory

### Management Report (2013)

#### Scope of Verification

*DNV GL Business Assurance (DNV) has been commissioned by Zig Sheng Industrial Co., Ltd. to perform a verification of the greenhouse gas assertion of Zig Sheng Industrial Co., Ltd. Greenhouse Gas Inventory Management Report (2013) (hereafter the "Inventory Report") in Taiwan, ROC with respect to the sites listed in Appendix.*

#### Verification Criteria and GHG Programme

*The verification was performed on the basis of ISO 14064-1:2006 and CNS 14064-1:2006 as well as EPA-GHG Reporting Guideline given to provide for consistent GHG emission identification, calculation, monitoring and reporting.*

#### Verification Statement

*It is DNV's opinion that with reasonable assurance the greenhouse gas assertion of the Inventory Report of December 2013 is free from material discrepancies in accordance with ISO 14064-1:2006 and CNS 14064-1:2006.*

Chun-Nan Lin  
GHG Verifier  
December 22, 2014



David Hsieh  
District Manager  
DNV Business Assurance Taiwan



## VERIFICATION STATEMENT OF GREENHOUSE GAS ASSERTIONS

Supplement to Statement No. 00114-2014-AG-TWN-TAF

Page 2 of 2

### Process and Methodology

The reviews of the Inventory Report and the subsequent follow-up interviews have provided DNV with sufficient evidence to determine the fulfilment of stated criteria. The Inventory Report correctly complies with the requirement of ISO 14064-1:2006 and CNS 14064-1:2006.

### Quantification of Greenhouse Gas Emission

The Inventory Report covering the period January 1, 2013 to December 31, 2013, it is DNV's opinion that the Inventory Report results in quantification of GHG emissions that are real, transparent and measurable.

#### Organizational Boundary of Verification

Financial Management Control  Operational Management Control  Equity Share

#### GHGs Verified

CO<sub>2</sub>  CH<sub>4</sub>  N<sub>2</sub>O  HFCs  PFCs  SF<sub>6</sub>

Total Direct Emissions: 40,474.068 Tonnes CO<sub>2</sub>-e

Total Indirect Emissions: 195,324.209 Tonnes CO<sub>2</sub>-e

The Global Warming Potential (GWP) defined in IPCC SAR (1995) has been chosen and correctly referred by the Organization.

#### Verification Opinion

Verified with Qualification: For DAYUAN 5th Factory district, the emission factors of electricity power and steam, which were from TA-YUAN Power Company, have not been verified by 3<sup>rd</sup> party.

## APPENDIX

The greenhouse gas assertion of Zig Sheng Industrial Co., Ltd. Greenhouse Gas Inventory Management Report (2013) with respect to the following sites:

	Total Direct Emissions (Tonnes CO <sub>2</sub> e)	Total Indirect Emissions (Tonnes CO <sub>2</sub> e)
<b><u>KWEI SHAN 1st Factory district</u></b> No. 60, 60-1, Dongwanshou Rd., Xinling Vill., Kweishan Township, Taoyuan County, Taiwan, R.O.C.	98.036	20,362.385
<b><u>KUAN YIN 2th Factory district</u></b> No. 522, Sec. 1, Chenggong Rd., Kuanyin Township, Taoyuan County, Taiwan, R.O.C.	17,331.978	36,877.458
<b><u>KUAN YIN 3th Factory district</u></b> No. 506, Sec. 1, Chenggong Rd., Kuanyin Township, Taoyuan County, Taiwan, R.O.C. No.307, Anhe St., Guanyin Township, Taoyuan County, Taiwan, R.O.C. (dormitory)	18,566.612	63,489.733
<b><u>KUAN YIN 4th Factory district</u></b> No. 2, Ronggong S. Rd., Kuanyin Township, Taoyuan County, Taiwan, R.O.C.	77.180	5,830.169
<b><u>DAYUAN 5th Factory district</u></b> No. 17, Dagong Rd., Dayuan Township, Taoyuan County, Taiwan, R.O.C.	4,400.262	68,764.463
<b>Total</b>	40,474.068	195,324.209

This Verification Opinion is based on the information made available to us and the engagement conditions detailed above. Hence, DNV can not guarantee the accuracy or correctness of the information. DNV can not be held liable by any party relying on or acting upon this Verification Opinion.

立恩威國際驗證股份有限公司, 新北市 220 板橋區文化路 2 段 293 號 29 樓

DNV ZNATW-OP-F50, Rev.6, 2013-01





## 溫室氣體排放量查證聲明書

聲明書編號：00113-2014-AP-TWN-TAF-Rev.1

(2 之 1 頁)

### 事業聯絡資訊

公司名稱：集盛實業股份有限公司  
聯絡電話：02-25557151  
通訊地址：台北市大同區西寧北路70號2樓

### 查驗機構聯絡資訊

公司名稱：立恩威國際驗證股份有限公司  
聯絡電話：02-82537800  
通訊地址：新北市板橋區文化路二段293號29樓

### 查證結果摘要

茲證明本案符合行政院環境保護署現行規定，查證結果發現未違反實質性限制，符合行政院環境保護署認可之合理保證等級。

**查證準則：** 行政院環境保護署發布之溫室氣體查驗指引、溫室氣體盤查及登錄管理原則、國家溫室氣體登錄平台之相關規定、CNS 14064-1 溫室氣體-第1部：組織層級溫室氣體排放與移除之量化及報告附指引之規範。

**查證範圍：** 涵蓋5家紡織製造廠(含1處宿舍)，共計5處設施：

名稱	地址	管制編號
龜山一廠	桃園縣龜山鄉新嶺村東萬壽路六〇、六〇之一號	H4804602
觀音二廠	桃園縣觀音鄉成功路一段五二二號	H5307693
觀音三廠	桃園縣觀音鄉草漯村成功路一段五〇六號 桃園縣觀音鄉安和街三〇七號(宿舍)	H5304165
觀音四廠	桃園縣觀音鄉榮工南路二號	H53A6207
大園五廠	桃園縣大園鄉北港村大工路一七號	H47A6144

**盤查期間：** 自102年1月1日至102年12月31日

**查證數據：** 採IPCC1995年第二次評估報告(SAR)公告之GWP值彙總排放量，總計235,798.277公噸二氧化碳當量，包含

公噸二氧化碳當量	直接溫室氣體排放(範疇一)	能源間接溫室氣體排放(範疇二)	總計
龜山一廠	98.036	20,362.385	20,460.421
觀音二廠	17,331.978	36,877.458	54,209.436
觀音三廠	18,566.612	63,489.733	82,056.345
觀音四廠	77.180	5,830.169	5,907.349
大園五廠	4,400.262	68,764.463	73,164.725

(一、二、三、四廠依經濟部能源局公告102年度電力排放係數0.522公斤CO<sub>2</sub>e/度計算；五廠之外購電力及蒸汽係數由大園汽電公司所提供，電力排放係數0.792公噸CO<sub>2</sub>e/千度，蒸汽排放係數0.277公噸CO<sub>2</sub>e/公噸，該係數未經第三方查證)

**查證意見：** 依據查證者所執行之查證過程與程序，有充分證據顯示集盛實業股份有限公司之溫室氣體主張不具實質差異，且係根據協議之查證準則規範的溫室氣體量化、監測與報告的國際標準予以準備，並公正地呈現溫室氣體數據及相關資訊。

**保留限制：** 大園五廠之外購電力及蒸汽係數由大園汽電公司所提供，該係數未經第三方查證

本案主導查驗員：林俊男

查證作業實施日期：

中華民國103年10月7日至10月28日



查驗機構簽章：

總經理簽章：謝振璋

查證聲明書核發日期：

中華民國103年12月23日

This Verification Opinion is based on the information made available to us and the engagement conditions detailed above. Hence, DNV can not guarantee the accuracy or correctness of the information. DNV can not be held liable by any party relying on or acting upon this Verification Opinion.



## 溫室氣體排放量查證聲明書

聲明書編號. 00113-2014-AP-TWN-TAF-Rev.1

(2 之 2 頁)

### 保密性聲明

此報告及附件可能包含屬於集盛實業股份有限公司之機密資訊，除作為行政院環境保護署相關額度認可申請之證明文件外，未經集盛實業股份有限公司書面同意，其他個人、團體或公司禁止自行複製或發行。


### 利益衝突迴避聲明

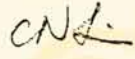

(一)茲保證此報告及附件內容完全依照行政院環境保護署及有關機關之相關規範，秉持公正、誠實之原則進行查證作業。絕無虛偽不實，如有違反，就政府機關所受損失願負連帶賠償責任之外，並接受主管機關依法令所為之行政處分及刑事處罰。

(二)吾人瞭解如自身受政府機關委任從事公務，亦屬於刑法上之公務員，並瞭解刑法上圖利罪、公務員登載不實偽造公文書及貪污治罪條例之相關規定，如有違反，亦為刑法及貪污治罪條例之適用對象，願受最嚴厲之法律制裁。

(三)保證本公司與受查證單位並無財務投資之關係，且符合主管機關對利益衝突迴避之要求。如有違反前述事實情事，經主管機關查證屬實時，此報告及附件內容願接受主管機關判定為無效之處分。

### 此 證

負責人簽章：謝振瑋  職稱：總經理 中華民國103年12月23日

查驗人員簽章：林俊男 、謝振瑋 、金仲萱 