



Statement TW23/00350GG

# Greenhouse Gas Verification Statement

The inventory of Greenhouse Gas emissions in year 2022 of

## Pegatron Corporation

No. 96, Ligong St., Beitou Dist.,  
Taipei City 112, Taiwan (R.O.C.)



has been verified in accordance with ISO 14064-3:2006 as  
meeting the requirements of

## ISO 14064-1:2018

Direct emissions

**34,386.2075** tonnes of CO<sub>2</sub>e

Indirect emissions

**413,827.5274** tonnes of CO<sub>2</sub>e

Direct emissions and indirect emissions

**448,213.735** tonnes of CO<sub>2</sub>e

Authorized by

Stephen Pao

Knowledge Deputy General Manager

Date: 21 July 2023

Version 1

TGP56A-15-6 2207

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The emission of each category is described as below:

Unit: tonnes of CO<sub>2</sub>e

| Reporting Boundaries                                  |   |   | GHG Emissions             |              |
|---|---|---|---------------------------|--------------|
| Inventory categories                                  |   | Description   | Location-based            | Market-based |
| Direct emissions                                      |   | This direct GHG emissions are the sum of owned or controlled by the organization within the organization. | 34,386.2075               |              |
| Indirect emissions                                    | Imported energy   | Imported electricity  | 411,890.9728              | 407,215.6534 |
|   | Transportation  | Business travel by air  | 1,936.5546                |              |
|   | Products used by an organization                          | (not significant)   | --                        |              |
|   | Associated with the use of products from the organization | (not significant)   | --                        |              |
|   | Other sources   | (not significant)   | --                        |              |
| Direct emissions and indirect emissions               |   |   | 448,213.735               | 443,538.416  |
| Purchased Renewable Energy Certificate(s) Information |   |   |                           |              |
| Site/Location   | Type  | Renewable Energy Source/Location  | Imported energy emissions |              |
|   |   |   | Location-based            | Market-based |
| PSZ   | I-REC   | Hydro-eletric / China   | 114,252.3538              | 111,915.2644 |
| PCQ   | I-REC   | Hydro-eletric / China   | 16,771.4198               | 14,433.1898  |

The emission of each site is described as below:

Unit: tonnes of CO<sub>2</sub>e

| Site | Direct emissions | Indirect emissions (category 2) | Total GHG emissions |
|------|------------------|---------------------------------|---------------------|
| HQ   | 96.6415          | 9,173.8982                      | 9,270.540           |
| PTY  | 313.5602         | 18,772.0295                     | 19,085.590          |
| PXD  | 3.0043           | 3,125.6280                      | 3,128.632           |
| PSH  | 17,366.4892      | 45,915.7286                     | 63,282.227          |

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| Site     | Direct emissions | Indirect emissions<br>(category 2) | Total GHG<br>emissions |
|----------|------------------|------------------------------------|------------------------|
| PKS      | 9,128.7225       | 118,402.0198                       | 127,530.742            |
| PSZ      | 3,134.5032       | 114,252.3538                       | 117,386.857            |
| Cotek    | 0.3123           | 14,027.5693                        | 14,027.882             |
| Casetek  | 1,120.9748       | 19,799.6093                        | 20,920.584             |
| PCQ      | 1,733.4972       | 16,771.4198                        | 18,504.917             |
| Kaichuan | 170.3928         | 3,248.5668                         | 3,418.960              |
| PMX      | 243.9883         | 4,286.4926                         | 4,530.481              |
| PCZ      | 70.7954          | 1,363.9308                         | 1,434.726              |
| PTB      | 0.0000           | 13,410.9589                        | 13,410.959             |
| PHP      | 51.8136          | 1,706.1565                         | 1,757.970              |
| PVN      | 168.7607         | 10,076.8865                        | 10,245.647             |
| PTI      | 782.7425         | 16,263.8928                        | 17,046.635             |
| PJ       | 0.0000           | 300.3088                           | 300.309                |
| PKR      | 0.0000           | 123.6223                           | 123.622                |
| PSG      | 0.0000           | 116.4353                           | 116.435                |
| PAU      | 0.0000           | 309.1962                           | 309.196                |
| PTSI     | 0.0000           | 444.2690                           | 444.269                |

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SGS has been contracted by Pegatron Corporation (hereinafter referred to as “Pegatron”), No. 96, Ligong St., Beitou Dist., Taipei City 112 , Taiwan (R.O.C.) for the verification of direct and indirect Greenhouse Gas emissions in accordance with

### **ISO 14064-3:2006**

as provided by Pegatron Corporation (hereinafter referred to as “Pegatron”), No. 96, Ligong St., Beitou Dist., Taipei City 112 , Taiwan (R.O.C.), in the GHG Assertion in the form of GHG report covering GHG emissions of the period 01 January 2022 to 31 December 2022.

### **Roles and responsibilities**

The management of Pegatron is responsible for the organization’s GHG information system, the development and maintenance of records and reporting procedures in accordance with that system, including the calculation and determination of GHG emissions information and the reported GHG emissions.

It is SGS’s responsibility to express an independent GHG verification opinion on the GHG emissions as provided in the GHG Assertion for the period 01 January 2022 to 31 December 2022.

SGS conducted a third-party verification of the provided GHG assertion against the principles of ISO 14064-1:2018, ISO 14064-3:2006 in the period 08 June 2023 to 27 June 2023. The verification was based on the verification scope, objectives and criteria as agreed between Pegatron and SGS on 21 September 2022.

### **Level of Assurance**

The level of assurance for category 1 and category 2 agreed is that of reasonable assurance. Category 3 till category 6 agreed is that of limited assurance.

### **Scope**

Pegatron has commissioned an independent verification by SGS Taiwan of reported GHG emissions of Pegatron arising from design and manufacture of computer products, consumer electronics, communication products, car electronics and smart electronics activities, to establish conformance with ISO 14064:2018 principles within the scope of the verification as outlined below.

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This engagement covers verification of emission from anthropogenic sources of greenhouse gases included within the organization's boundary and is based on ISO 14064-3:2006.

- Title or description activities: GHG verification for Pegatron in year 2022
- Location/boundary of the activities:
  - PEGATRON Corporation (HQ)
    - No.76, Ligong St., Beitou District, Taipei City, Taiwan
    - No.96, Ligong St., Beitou District, Taipei City, Taiwan
    - No.150, Lide Rd., Beitou District, Taipei City, Taiwan
    - No.11, Lane 120, Lide Rd., Beitou District, Taipei City, Taiwan
    - No.150-3, Lide Rd., Beitou District, Taipei City, Taiwan
    - 4F, No.62, Lide Rd., Beitou District, Taipei City, Taiwan
    - No.160, Lide Rd., Beitou District, Taipei City, Taiwan
    - No.158, Lide Rd., Beitou District, Taipei City, Taiwan
    - No.77, Ligong St., Beitou District, Taipei City, Taiwan
    - No.156, Lide Rd., Beitou District, Taipei City, Taiwan
    - 1F, No.15, Lide Rd., Beitou District, Taipei City, Taiwan
    - 8F-1, 8F-2, 8F-3, 8F-5, 9F-3, 9F-5, 9F-6, No. 9, Ligong St., Beitou Dist., Taipei City, Taiwan (R.O.C.)
  - PEGATRON Corporation (PTY)
    - No. 5, Xingye St., Guishan Dist., Taoyuan City 333 , Taiwan
    - No. 6, Xingye St., Guishan Dist., Taoyuan City 333 , Taiwan
    - No. 356, Shanying Rd., Guishan Dist., Taoyuan City 333 , Taiwan
    - No. 28, Xingbang Rd., Taoyuan Dist., Taoyuan City 333, Taiwan
    - No. 11, Shing Yeh St., Guishan Dist., Taoyuan City 333, Taiwan
  - PEGATRON Corporation (PXD)
    - No.1, Ln. 232, Baoqiao Rd., Xindian Dist., New Taipei City 231, Taiwan
  - PROTEK (Shanghai) Limited (PSH)
    - No. 3768 Xiu Yan Road., Kang Qiao Town, Pu Dong New District, Shanghai, China
  - PEGAGLOBE (Kunshan) Co., Ltd. (PKS)
    - Bailing Road Southside, Meigui Road Westside, Kunshan Development Zone, Jiangsu, China
  - MAINTEK Computer (Suzhou) Co., Ltd. (PSZ)
    - No.233, Jin Feng Rd., SND. Suzhou, Jiangsu, 215011, China

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- COTEK Electronics (Suzhou) Co., Ltd. (Cotek)  
No. 288, MaYun Road, New District, SuZhou, China
- CASETEK Computer (Suzhou) Co., Ltd. (Casetek)  
No. 233, Jin Feng Rd., SND. Suzhou, Jiangsu, 215011, P.R. China
- DIGITEK (Chongqing) Limited (PCQ)  
B01, Section C, Airport Function Zone, Lianglu Cuntan Free Trade Port Area, Yubei District, Chongqing City, China
- KAICHUAN Electronics (Chongqing) Limited (Kaichuan)  
B01, Section C, Airport Function Zone, Lianglu Cuntan Free Trade Port Area, Yubei District, Chongqing City, China
- PEGATRON MEXICO S.A. DE C.V. (PMX)  
Miguel de la Madrid No.9650 Col. Puente Alto, C.P.32695, Cd. Juarez, Chih, Mexico
- PEGATRON Czech s.r.o. (PCZ)  
Na Rovince 862, 720 00 Ostrava-Hrabová , Czech Republic, EU
- PT. PEGATRON TECHNOLOGY INDONESIA (PTB)  
Beringin Street, Lot 5 Batamindo Industrial Estate, Kabil District, Sei Beduk, Batam, Riau Islands, Indonesia
- Pegatron Technology Hai Phong Co., Ltd. (PHP)  
No. 151, East-West Boulevard, VSIP Hai Phong Township, Industrial & Service Park, Thuy Trieu Commune, Thuy Nguyen District, Hai Phong City, Vietnam
- PEGATRON Vietnam Company Limited (PVN)  
Land Plot CN3A, DEEP C 2A Industrial Zone, Dinh Vu - Cat Hai Economic Zone, Dong Hai 2 Ward, Hai An District, Hai Phong City, Vietnam
- Pegatron Technology India Private Limited (PTI)  
No. 8, Phase V, Mahindra World City, Chengalpattu, Tamil Nadu 603002, India
- PEGATRON Japan Inc. (PJ)  
5F Sagawa Tokyo Logistics Center, 2-2-11 Shinsuna Koto-ku, Tokyo, Japan
- Pegatron Service Korea.LLC (PKR)  
1701-1710, 17F, 25, Gasan digital 1-ro, Geumcheon-gu, Seoul, Korea
- Pegatron Service Singapore Pte. Ltd. (PSG)  
750E Chai Chee Road, #08-01/04, 469005, Singapore
- Pegatron Service Australia Pty Ltd (PAU)  
Unit 4, 5 Talavera Road, Macquarie Park, Sydney, New South Wales, Australia, 2113
- PEGATRON TECHNOLOGY SERVICE INC. (PTSI)  
DOCK B, 121 RIVERRIDGE CIRCLE, JEFFERSONVILLE, IN, 47130, USA

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- Physical infrastructure, activities, technologies and processes of the organization: Design and manufacture of computer products, consumer electronics, communication products, car electronics and smart electronics
- GHG sources, sinks and/or reservoirs included: Sources as presented in the inventory spreadsheet provided by Pegatron
- Types of GHGs included: CO<sub>2</sub>, CH<sub>4</sub>, N<sub>2</sub>O, HFCs, PFCs, SF<sub>6</sub>, NF<sub>3</sub>
- The IPCC 2021 AR6 GWP values are applied in this inventory.
- Emission factor:
  - Direct emissions: Greenhouse Gas Emission Factor Table (6.0.4), EPA.
  - Indirect emissions:
    - Electricity emission factor is 0.495 CO<sub>2</sub>e/kwh (Announced by Bureau of Energy, Ministry of Economic Affairs in 2023.
    - Other electricity emission factors are from local governments and IEA
    - The secondary database has US EPA Emission Factors for Greenhouse Gas Inventories.
- Directed actions: NA
- GHG information for the following period was verified: 01 January 2022 to 31 December 2022
- The version of inventory sheet: 06291740
- The version of GHG assertion: 0711
- Intended user of the verification statement: Private

### Objective

The purposes of this verification exercise are, by review of objective evidence, to independently review:

- Whether the GHG emissions are as declared by the organization's GHG assertion
- The data reported are accurate, complete, consistent, transparent and free of material error or omission.

### Criteria

Criteria against which the verification assessment is undertaken are the principles of ISO 14064-1:2018.

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**Materiality**

The materiality required of the verification was considered by SGS to 5%, based on the needs of the intended user of the GHG Assertion.

**Conclusion**

Pegatron provided the GHG assertion based on the requirements of ISO 14064-1: 2018. The GHG information for the period 01 January 2022 to 31 December 2022 disclosing emissions of 448,213.653 metric tonnes of CO<sub>2</sub> equivalent and 0.0000 metric tonnes of direct CO<sub>2</sub> emissions from the combustion of biomass are verified by SGS to a reasonable level of assurance, consistent with the agreed verification scope, objectives and criteria.

The emission of each site is described as below:

Unit: tonnes of CO<sub>2</sub>e

| Site     | Direct emissions | Indirect emissions (category 2) | Total GHG emissions |
|----------|------------------|---------------------------------|---------------------|
| HQ       | 96.6415          | 9,173.8982                      | 9,270.540           |
| PTY      | 313.5602         | 18,772.0295                     | 19,085.590          |
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Statement TW23/00350GG, continued

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| PVN  | 168.7607         | 10,076.8865                     | 10,245.647          |
| PTI  | 782.7425         | 16,263.8928                     | 17,046.635          |
| PJ   | 0.0000           | 300.3088                        | 300.309             |
| PKR  | 0.0000           | 123.6223                        | 123.622             |
| PSG  | 0.0000           | 116.4353                        | 116.435             |
| PAU  | 0.0000           | 309.1962                        | 309.196             |
| PTSI | 0.0000           | 444.2690                        | 444.269             |

Pegatron purchased 8,198 Renewable Energy Certificate(s) in 2022. The imported energy emissions by location-based and market-based approach shown as the following table :

Unit: tonnes of CO<sub>2</sub>e

| Purchased Renewable Energy Certificate(s) Information |       |                                  |                           |              |
|---|-------|----------------------------------|---------------------------|--------------|
| Site/Location   | Type  | Renewable Energy Source/Location | Imported energy emissions |              |
|   |       |                                  | Location-based            | Market-based |
| PSZ   | I-REC | Hydro-eletric / China            | 114,252.3538              | 111,915.2644 |
| PCQ   | I-REC | Hydro-eletric / China            | 16,771.4198               | 14,433.1898  |

SGS's approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions information and the controls in place to mitigate these. Our examination includes assessment, on a test basis, of evidence relevant to the amounts and disclosures in relation to the organization's reported GHG emissions.

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We planned and performed our work to obtain the information, explanations, and evidence that we considered necessary to provide a reasonable level of assurance that the GHG emissions of category 1 and category 2, and limited level of assurance of category 3 till category 6 for the period 01 January 2022 to 31 December 2022 are fairly stated.

We conducted our verification with regard to the GHG assertion of Pegatron which included assessment of GHG information system, monitoring and reporting plan/protocol. This assessment included the collection of evidence supporting the reported data, and checking whether the provisions of the protocol reference, were consistently and appropriately applied.

In SGS's opinion the presented GHG assertion

- is materially correct and is a fair representation of the GHG data and information, and
- is prepared in accordance with ISO14064-1:2018 on GHG quantification, monitoring and reporting.

### **Confidentiality**

The reports and attachments may contain relevantly confidential information of the clients. In addition to being submitted as governmental application or certification documents, the reports and attachments are not allowed to be edited, duplicated, or published without the clients' agreement in written form.

### **Avoidance of Conflict of Interest**

The reports and attachments are completely complied with the standards and procedures that related authorities established. The reports and attachments of auditing process are conduct with fairness and honesty. If not, the auditing institution not only has to bear the relevant compensation duties, but also to receive legal charge and punishment.

This statement shall be interpreted with the GHG assertion of Pegatron as a whole.

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**Verifier Group**

Above statements coincide with auditing process with fairness and impartiality and aim at the emission of year 2022 of clients.

Lead Verifier:

*Dave Lin*

Verifier:

*Bob Lu*

*Ocean Wu*

*Aiden Tseng*

Note: This Statement is issued, on behalf of Client, by SGS Taiwan Ltd. ("SGS") under its General Conditions for Greenhouse Gas Verification Services available at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). The findings recorded hereon are based upon an audit performed by SGS. A full copy of this statement, the findings and the supporting GHG Assertion may be consulted at Pegatron Corporation, No. 96, Ligong St., Beitou Dist., Taipei City 112, Taiwan (R.O.C.), This Statement does not relieve Client from compliance with any bylaws, federal, national or regional acts and regulations or with any guidelines issued pursuant to such regulations. Stipulations to the contrary are not binding on SGS and SGS shall have no responsibility vis-à-vis parties other than its Client.