



## VERIFICATION OPINION GREENHOUSE GAS EMISSIONS

This is to verify that

# Quanta Computer Inc.

No. 211, Wen Hwa 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan

Holds Statement No: TWN20618451GT-2/E Rev.1

Bureau Veritas Certification (Taiwan) Co., Ltd. was engaged to conduct an independent verification of the greenhouse gas (GHG) emissions reported by Quanta Computer Inc. for the period stated below. This Verification Statement applies to the related information included within the scope of work described below.

The determination of the GHG emissions is the sole responsibility of Quanta Computer Inc., BVC's sole responsibility was to provide independent verification on the accuracy of the GHG emissions reported, and on the underlying systems and processes used to collect, analyze and review the information.

### Boundaries of the reporting company GHG emissions covered by the verification:

- Quanta Computer Inc. at 211, 188, 178, and 220, Wen Hwa 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan; and please refer to the attachment for detail information.
- Period covered by GHG emissions verification: January 1, 2023 to December 31, 2023

### Emissions data verified:

- Category 1 - Direct GHG emissions and removals: 1,490.5770 tCO<sub>2</sub>e
- Category 2 - Indirect GHG emissions from imported energy: 64,194.4983 tCO<sub>2</sub>e
- Category 3 - Indirect GHG emissions from transportation: 9,913.6668 tCO<sub>2</sub>e
- Category 4 - Indirect GHG emissions from products used by organization: 13,080.5985 tCO<sub>2</sub>e

### Level of Assurance and Qualifications:

- Reasonable assurance
- Limited assurance
- This verification used a materiality threshold of 5% for aggregate errors in sampled data for each of the above indicators

### Assurance Opinion:

Based on the process and procedures conducted, we conclude that the GHG statement for Category 1 and 2 is materially correct and is a fair representation of the GHG data and information, and is prepared in accordance with the ISO 14064-1:2018.

There is no evidence that the GHG statement for Category 3, and 4 is not materially correct and is not a fair representation of GHG data and information and has not been prepared in accordance with the ISO 14064-1:2018.

It is our opinion that Quanta Computer Inc. has established appropriate systems for the collection, aggregation and analysis of quantitative data for determination of these GHG emissions for the stated period and boundaries.

Carter Liu, Technical Reviewer  
Originally Issue: 23/2/2024

  
Pei Hsu, CER Manager  
Latest Issue: 23/2/2024

  
Validation and Verification  
VB005



**Greenhouse Gas Statement:**

- Quanta Computer Inc. (QRDC): No. 211, Wen Hwa 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan, include Parking Lot and exclude Tenant.

Categories	Subcategories	Remark	tCO <sub>2</sub> e	
<b>Category 1: Direct GHG emissions and removals</b>	1.1 Direct emissions from stationary combustion		193.9454	<b>354.7289</b>
	1.2 Direct emissions from mobile combustion		4.8013	
	1.3 Direct process emissions and removals arise from industrial processes		0.0000	
	1.4 Direct fugitive emissions arise from the release of greenhouse gases in anthropogenic systems		155.9822	
	1.5 Direct emissions and removals from Land Use, Land Use Change and Forestry		0.0000	
<b>Category 2: Indirect GHG emissions from imported energy</b>	2.1 Indirect emissions from imported electricity	Location based approach*	17,607.6723	<b>17,607.6723*</b>
		Market based approach	N.A.	
<b>Category 3: Indirect GHG emissions from transportation</b>	2.2 Indirect emissions from imported energy	N.A.	0.0000	<b>5,989.6694</b>
	3.1 Emissions from Upstream transport and distribution for goods		N.A.	
	3.2 Emissions from Downstream transport and distribution for goods		N.A.	
	3.3 Emissions from Employee commuting includes emissions	Quantified the emissions from shuttle bus and car/motors of employee commuting.	5,975.5095	
	3.4 Emissions from Client and visitor transport		N.A.	
<b>Category 4: Indirect GHG emissions from products used by organization</b>	3.5 Emissions from Business travels	Quantified the emissions from taxi used for business travel	14.1599	<b>3,411.4426</b>
	4.1 Emissions from Purchased goods	Quantified the emissions from energy purchased.	3,190.3364	
	4.2 Emissions from Capital goods		N.A.	
	4.3 Emissions from the disposal of solid and liquid waste	Quantified the emissions from the disposal of general industrial waste.	179.1052	
	4.4 Emissions from the use of assets	Quantified the emissions from Parking Lot used.	33.465	
<b>Category 5: Indirect GHG emissions associated with the use of products from the organization</b>	4.5 Emissions from the use of services that are not described in the above subcategories	Quantified the emissions from Refrigerant used in outsourced refectory.	8.536	<b>N.A.</b>
	5.1 Emissions or removals from the use stage of the product		N.A.	
	5.2 Emissions from downstream leased assets		N.A.	
	5.3 Emissions from end of life stage of the product		N.A.	
<b>Category 6: Indirect GHG emissions from other sources</b>			N.A.	<b>N.A.</b>

#: N.S.: Non-significant ; N.A.: Not available



- Quanta Computer Inc. (QC1): No.188, Wen Hwa 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan and include Dormitory.

Categories	Subcategories	Remark	tCO <sub>2</sub> e	
<b>Category 1: Direct GHG emissions and removals</b>	1.1 Direct emissions from stationary combustion		0.0000	<b>942.9930</b>
	1.2 Direct emissions from mobile combustion		0.0000	
	1.3 Direct process emissions and removals arise from industrial processes		0.0000	
	1.4 Direct fugitive emissions arise from the release of greenhouse gases in anthropogenic systems		942.9930	
	1.5 Direct emissions and removals from Land Use, Land Use Change and Forestry		0.0000	
<b>Category 2: Indirect GHG emissions from imported energy</b>	2.1 Indirect emissions from imported electricity	Location based approach*	26,576.3520	<b>26,576.3520*</b>
		Market based approach	N.A.	
	2.2 Indirect emissions from imported energy	N.A.	0.0000	
<b>Category 3: Indirect GHG emissions from transportation</b>	3.1 Emissions from Upstream transport and distribution for goods		N.A.	<b>2,959.7486</b>
	3.2 Emissions from Downstream transport and distribution for goods		N.A.	
	3.3 Emissions from Employee commuting includes emissions	Quantified the emissions from shuttle bus and car/motors of employee commuting.	2,857.8931	
	3.4 Emissions from Client and visitor transport	Quantified the emissions from vehicles of sub-contracted company restaurant	95.0833	
	3.5 Emissions from Business travels	Quantified the emissions from taxi used for business travel	6.7722	
<b>Category 4: Indirect GHG emissions from products used by organization</b>	4.1 Emissions from Purchased goods	Quantified the emissions from energy purchased.	4,735.4227	<b>5,728.1959</b>
	4.2 Emissions from Capital goods		N.A.	
	4.3 Emissions from the disposal of solid and liquid waste	Quantified the emissions from the disposal of general industrial waste.	191.3133	
	4.4 Emissions from the use of assets	Quantified the emissions from Dormitory used (Electricity, Refrigerant).	801.4599	
	4.5 Emissions from the use of services that are not described in the above subcategories	Quantified the emissions from Refrigerant used in vending machine.	0.000	
<b>Category 5: Indirect GHG emissions associated with the use of products from the organization</b>	5.1 Emissions or removals from the use stage of the product		N.A.	<b>N.A</b>
	5.2 Emissions from downstream leased assets		N.A.	
	5.3 Emissions from end of life stage of the product		N.A.	
	5.4 Emissions from investments		N.A.	
<b>Category 6: Indirect GHG emissions from other sources</b>			N.A.	<b>N.A</b>

#: N.S.: Non-significant ; N.A.: Not available



- Quanta Computer Inc. (QC2): No. 178, Wen Hwa 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan and include Dormitory.

Categories	Subcategories	Remark	tCO <sub>2</sub> e	
<b>Category 1: Direct GHG emissions and removals</b>	1.1 Direct emissions from stationary combustion		0.0000	<b>73.9276</b>
	1.2 Direct emissions from mobile combustion		0.0000	
	1.3 Direct process emissions and removals arise from industrial processes		0.0000	
	1.4 Direct fugitive emissions arise from the release of greenhouse gases in anthropogenic systems		73.9276	
	1.5 Direct emissions and removals from Land Use, Land Use Change and Forestry		0.0000	
<b>Category 2: Indirect GHG emissions from imported energy</b>	2.1 Indirect emissions from imported electricity	Location based approach*	6,855.3540	<b>6,855.3540 *</b>
		Market based approach	N.A.	
<b>Category 3: Indirect GHG emissions from transportation</b>	2.2 Indirect emissions from imported energy		0.0000	<b>641.8615</b>
	3.1 Emissions from Upstream transport and distribution for goods		N.A.	
	3.2 Emissions from Downstream transport and distribution for goods		N.A.	
	3.3 Emissions from Employee commuting includes emissions	Quantified the emissions from shuttle bus and car/motors of employee commuting.	619.7728	
	3.4 Emissions from Client and visitor transport	Quantified the emissions from vehicles of sub-contracted company restaurant	20.6201	
<b>Category 4: Indirect GHG emissions from products used by organization</b>	3.5 Emissions from Business travels	Quantified the emissions from taxi used for business travel	1.4686	<b>1,508.1479</b>
	4.1 Emissions from Purchased goods	Quantified the emissions from energy purchased.	1,221.4994	
	4.2 Emissions from Capital goods		N.A.	
	4.3 Emissions from the disposal of solid and liquid waste	Quantified the emissions from the disposal of general industrial waste.	101.9837	
	4.4 Emissions from the use of assets	Quantified the emissions from Dormitory used (Electricity, Refrigerant).	184.5024	
<b>Category 5: Indirect GHG emissions associated with the use of products from the organization</b>	4.5 Emissions from the use of services that are not described in the above subcategories	Quantified the emissions from Refrigerant used in vending machine.	0.1624	<b>N.A.</b>
	5.1 Emissions or removals from the use stage of the product		N.A.	
	5.2 Emissions from downstream leased assets		N.A.	
	5.3 Emissions from end of life stage of the product		N.A.	
<b>Category 6: Indirect GHG emissions from other sources</b>	5.4 Emissions from investments		N.A.	<b>N.A.</b>

#: N.S.: Non-significant ; N.A.: Not available



- Quanta Computer Inc. (QC3): No. 220, Wen Hwa 2nd Rd., Guishan Dist., Taoyuan City 33377, Taiwan and include Dormitory.

Categories	Subcategories	Remark	tCO <sub>2</sub> e	
<b>Category 1: Direct GHG emissions and removals</b>	1.1 Direct emissions from stationary combustion		0.7818	<b>118.9275</b>
	1.2 Direct emissions from mobile combustion		0.0000	
	1.3 Direct process emissions and removals arise from industrial processes		0.0000	
	1.4 Direct fugitive emissions arise from the release of greenhouse gases in anthropogenic systems		118.1457	
	1.5 Direct emissions and removals from Land Use, Land Use Change and Forestry		0.0000	
<b>Category 2: Indirect GHG emissions from imported energy</b>	2.1 Indirect emissions from imported electricity	Location based approach*	13,155.1200	<b>13,155.1200 *</b>
		Market based approach	N.A.	
<b>Category 3: Indirect GHG emissions from transportation</b>	2.2 Indirect emissions from imported energy		0.0000	<b>322.3873</b>
	3.1 Emissions from Upstream transport and distribution for goods		N.A.	
	3.2 Emissions from Downstream transport and distribution for goods		N.A.	
	3.3 Emissions from Employee commuting includes emissions	Quantified the emissions from shuttle bus and car/motors of employee commuting.	311.2928	
	3.4 Emissions from Client and visitor transport	Quantified the emissions from vehicles of sub-contracted company restaurant	10.3568	
<b>Category 4: Indirect GHG emissions from products used by organization</b>	3.5 Emissions from Business travels	Quantified the emissions from taxi used for business travel	0.7377	<b>2,432.8121</b>
	4.1 Emissions from Purchased goods	Quantified the emissions from energy purchased.	2,344.2222	
	4.2 Emissions from Capital goods		N.A.	
	4.3 Emissions from the disposal of solid and liquid waste	Quantified the emissions from the disposal of general industrial waste.	41.9699	
	4.4 Emissions from the use of assets	Quantified the emissions from Dormitory used (Electricity, Refrigerant).	46.4576	
<b>Category 5: Indirect GHG emissions associated with the use of products from the organization</b>	4.5 Emissions from the use of services that are not described in the above subcategories	Quantified the emissions from Refrigerant used in vending machine.	0.1624	<b>N.A.</b>
	5.1 Emissions or removals from the use stage of the product		N.A.	
	5.2 Emissions from downstream leased assets		N.A.	
	5.3 Emissions from end of life stage of the product		N.A.	
<b>Category 6: Indirect GHG emissions from other sources</b>			N.A.	<b>N.A.</b>



**GHG Verification Protocols used to conduct the verification:**

- ISO 14064-1:2018, ISO 14064-3:2019
- Period covered by GHG emissions verification: January 1, 2023 to December 31, 2023
- GHG covered: Carbon dioxide (CO<sub>2</sub>), Methane (CH<sub>4</sub>), Nitrous oxide (N<sub>2</sub>O), Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), Sulfur hexafluoride (SF<sub>6</sub>) and Nitrogen trifluoride (NF<sub>3</sub>)
- Global warming potential (GWP): 2013 IPCC Fifth Assessment Report (AR5)
- Electricity Emission Factor: 2022 Electricity Retailing Utility Enterprise Electricity Carbon Emission Factor (0.495 kgCO<sub>2</sub>e/kWh) published by Bureau of Energy, Ministry of Economic Affairs, R.O.C.
- Approach for consolidating GHG emissions: Operational Control
- GHG Inventory: 02/06/2024
- GHG Report: 02/06/2024

**GHG Verification Methodology:**

- Interviews with relevant personnel of Quanta Computer Inc.;
- Review of documentary evidence produced by Quanta Computer Inc.;
- Review of Quanta Computer Inc. data and information systems and methodology for collection, aggregation, analysis and review of information used to determine GHG emissions at Quanta Computer Inc. Headquarters(QRDC) and during site visits to QC1 / QC2 / QC3; and
- Audit of sample of data used by Quanta Computer Inc. to determine GHG emissions.

**Verification Team:**

- Lead Verifier: Ryan Man *Ryan*
- Verifier: Lily Chuang *Lily Chuang*

**Statement of independence, impartiality and competence**

*The Bureau Veritas Group is an independent professional services company that specializes in Quality, Health, Safety, Social and Environmental management with over 190 years history in providing independent assurance services.*

*No member of the verification team has a business relationship with Quanta Computer Inc., its Directors or Managers beyond that required of this assignment. We conducted this verification independently and to our knowledge there has been no conflict of interest.*

*The Bureau Veritas Group has implemented a Code of Ethics across the business to maintain high ethical standards among staff in their day-to-day business activities.*

*The verification team has extensive experience in conducting assurance over environmental, social, ethical and health and safety information, systems and processes, has over 20 years combined experience in this field and an excellent understanding of The Bureau Veritas Group standard methodology for the verification of greenhouse gas emissions data.*

*This verification statement, including the opinion expressed herein, is provided to Quanta Computer Inc. and is solely for the benefit of Quanta Computer Inc. in accordance with the terms of our agreement. We consent to the release of this statement by you to others interest party in order to satisfy the terms of disclosure requirements but without accepting or assuming any responsibility or liability on our part to any other party who may have access to this statement.*