

# Independent Verification Opinion

**Verification Opinion No.:**  
681013-2023-AG-TWN-DNV

**Issued Place:**  
Taipei

**Issued Date:**  
25 June, 2024

This is to verify initiate reporting of Greenhouse Gas Inventory Management Report (2023) of

## PRINCE HOUSING & DEVELOPMENT CORP.

### Scope of Verification

DNV Business Assurance (DNV) has been commissioned by PRINCE HOUSING & DEVELOPMENT CORP. ('the Organization') to perform a verification of the greenhouse gas statements of Greenhouse Gas Inventory Management Report (2023) (hereafter the "Inventory Report") in Taiwan, R.O.C. with respect to the sites listed in Appendix A.

The Reporting Boundary for the verification including direct GHG emissions and removals, indirect GHG emissions from imported energy, indirect GHG emissions from transportation, and indirect GHG emissions from products used by the Organization. The further descriptions for the Reporting Boundary listed in Appendix B.

### Verification Criteria and GHG Programme

The verification was performed on the basis of ISO 14064-1:2018 as well as criteria given to provide for consistent GHG emission identification, calculation, monitoring and reporting. The verification was conducted in accordance with ISO 14066:2011, ISO 14065:2020, ISO14064-3:2019

### Verification Opinion

It is DNV's opinion that the Inventory Report (2023), which was published on May 2024 is free from material discrepancies in accordance with the verification criteria identified as stated above. The opinion is decided based on the following approaches,

- For the Direct (Category 1) and Indirect GHG emissions from imported energy (Category 2), the reliability of the information within the Inventory Report (2023) were verified with reasonable level of assurance.
- For the other indirect GHG emissions, the involved information was verified and tested using agreed-upon procedures, AUP, defined in Inventory Report.

Also, the GHG information as stated in Appendix A and C has been verified during the process.

Po-Chien Tai  
GHG Verifier



Place and date:

**Taipei, 25 June, 2024**

For the issuing office:

**DNV Business Assurance Co., Ltd.**  
**29Fl., No. 293, Sec. 2, Wenhua Rd.,**  
**Banqiao District, New Taipei City**  
**220, Taiwan**



Management Representative



Verification Opinion No.:  
681013-2023-AG-TWN-DNV

Issued Place:  
Taipei

Issued Date:  
25 June, 2024

## Supplement to Verification Opinion

### Process and Methodology

The reviews of the Inventory Report and relevant documents, and the subsequent follow-up interviews have provided DNV with sufficient evidence to determine the fulfilment of stated criteria.

### Quantification of Greenhouse Gas Emission

The Inventory Report covering the period 1 January, 2023 to 31 December, 2023, it is DNV's opinion that GHG emissions and removals identified within the Reporting Boundary has been included in the Inventory Report as claimed in accordance with the verification criteria identified as stated above, and results in quantification of GHG emissions that are real, transparent and measurable.

### Organizational Boundary of Verification

☐ Financial Control ☒ Operational Control ☐ Equity Share

### GHGs Verified

☒ CO<sub>2</sub> ☒ CH<sub>4</sub> ☒ N<sub>2</sub>O ☒ HFCs ☒ PFCs ☒ SF<sub>6</sub> ☒ NF<sub>3</sub>

The Quantification of GHG emissions:

Category		Emission (tonne CO <sub>2</sub> e)
Category 1	Direct GHG emissions and removals	477.3469
1.1	Stationary combustion emissions	61.3836
1.2	Mobile emissions	7.2964
1.3	Industry process	0.0000
1.4	Fugitive emissions	408.6669
Category 2	Indirect GHG emissions from imported energy	3,335.0765
2.1	Indirect emissions from imported electricity	3,335.0765
Category 3	Indirect GHG emissions from transportation	0.0000
3.1	Emissions from upstream transport and distribution for goods	0.0000
Category 4	Indirect GHG emissions from products used by an organization	675.1436
4.1	Purchased goods and services (including purchased fuel and energy)	675.1436
Total		4,487.567

(The Imported Energy Indirect Emissions was calculated based on 2023 electricity emission factor of 0.494 kg CO<sub>2</sub>-e/kwh, which was announced by Energy Administration, Ministry of Economic Affairs. The Global Warming Potential (GWP) defined in IPCC AR6 (2021) has been chosen and correctly referred by the Organization.)

### Verification Opinion

☒ unmodified ☐ modified ☐ adverse

## Appendix to Verification Opinion No. 681013-2023-AG-TWN-DNV

### APPENDIX A

The organization boundary of report:

Site	Address	Category 1 (tonne CO <sub>2</sub> e)	Category 2 (tonne CO <sub>2</sub> e)	Category 3 (tonne CO <sub>2</sub> e)	Category 4 (tonne CO <sub>2</sub> e)
<b>Total Emissions of PRINCE HOUSING &amp; DEVELOPMENT CORP. 太子建設開發股份有限公司</b>		<b>477.3469</b>	<b>3,335.0765</b>	<b>0.0000</b>	<b>675.1436</b>
Taipei office 臺北辦公室	21F., No. 11, Songgao Rd., Xinyi Dist., Taipei City, Taiwan 臺北市信義區松高路 11 號 21 樓	2.3639	178.3316	0.0000	35.6553
Taichung office 臺中辦公室	14F., No. 416, Sec. 2, Chongde Rd., Beitun Dist., Taichung City, Taiwan 臺中市北屯區崇德路二段 416 號 14 樓	15.5808	62.9884	0.0000	12.8296
Tainan office 臺南辦公室	8F., No. 398, Sec. 1, Zhonghua E. Rd., East Dist., Tainan City, Taiwan 臺南市中華東路一段 398 號 8 樓	16.3402	60.7457	0.0000	13.0860
NTU Chang Hsing BOT 臺大 BOT 長興 舍區	No. 75, Sec. 3, Keelung Rd., Da'an Dist., Taipei City, Taiwan 臺北市大安區基隆路三段 75 號 (AB 棟，共兩 棟)	65.9422	784.7646	-	154.7046
NTU Shui Yuan BOT 臺大 BOT 水源 舍區	No. 16-1, 16-2, 16-3, 16-5, Siyuan St., Zhongzheng Dist., Taipei City, Taiwan 臺北市中正區思源街 16-2 號 (A 棟)、16-3 號 (B 棟)、16-5 號 (C 棟)、16-1 號 (D 棟)	226.3998	1,328.2298	-	261.7879
NCKU BOT 成大 BOT	No. 116, Shengli Rd., East Dist., Tainan City, Taiwan & No. 2, Daxue Rd., East Dist., Tainan City, Taiwan 臺南市東區勝利路 116 號 & 臺南市東區大學 路 2 號	134.5612	898.4034	-	192.8232
STSP Prince 南科太子雅舍	No. 1211, Zhongzheng Rd., Xinhua Dist., Tainan City, Taiwan 臺南市新化區中正路 1211 號	16.1588	21.6130	-	4.2570

### APPENDIX B

The Reporting Boundary of PRINCE HOUSING & DEVELOPMENT CORP. Greenhouse Gas Inventory Management Report (2023)

#### Indirect emissions verification procedures:

Category	Subcategory	Verification Procedures
<b>Category 2</b>	2.1 Imported electricity	-Bill and invoice from suppliers (TPC)
<b>Category 3</b>	3.1 Upstream transportation and distribution	-Weight of direct raw material report -Distance of transportation from supplier
<b>Category 4</b>	4.1 Purchased goods	-Weight of direct raw material report
	4.1 Purchased fuel and energy emission (not included in Cat.1 & Cat.2)	-Bill and invoice from suppliers
<b>Category 5*</b>	Indirect GHG emissions associated with the use of products from the organization	Not Significant Emissions
<b>Category 6*</b>	Indirect GHG emissions from other sources	Not Significant Emissions

NOTE: Category 5 & Category 6 were evaluated as Not Significant Emissions base on PRINCE HOUSING & DEVELOPMENT CORP.'s significant emission identification process reported in GHG inventory report.

## APPENDIX C

For direct emissions and removals, quantified separately for each GHG as below:

GHG Type	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	HFCs	PFCs	SF <sub>6</sub>	NF <sub>3</sub>	Total
Emissions (tonne CO <sub>2</sub> e)	68.3778	8.4622	0.2184	400.2885	0	0	0	477.3469
Proportion (%)	14.32	1.77	0.05	83.86	0	0	0	100

