

Greenhouse Gas Verification Opinion

PlayNitride Inc.

No. 13, Kezhong Rd., Zhunan Township, Miaoli County, Taiwan (R.O.C.)

Summary of verification results

「Industrial Technology Research Institute (Center for Measurement Standards)」 has independently verified the GHG claims reported by 「PlayNitride Inc.」. The verification results of the direct GHG emissions (Category 1), the indirect GHG emissions from imported energy (Category 2), and the indirect GHG emissions from products used by an organization (Category 4) do not violate the substantive restrictions and meet the reasonable assurance level of the verification agreement. The data quality complies with the requirements of ISO 14064-1:2018.

Verification boundary:


- PlayNitride Inc.
Campus : Zhunan Plant 、 Taipei-Xindian Office 、 Taipei- Zhonghe Office 、 Taiyuan Office 、 Tainan Office
- Duration : Jan. 1, 2022 to Dec. 31, 2022

GHG Emissions:

Category 1:	Direct GHG emissions and removals	972.28	Tonnes CO ₂ e
Category 2:	Indirect GHG emissions from imported energy	3,556.31	Tonnes CO ₂ e
Category 4:	Indirect GHG emissions from products used by an organization	794.84	Tonnes CO ₂ e
Total GHG emissions:		5,323	Tonnes CO₂e

Mental reservation: N/A


Lead Verifier


Industrial Technology Research Institute
CMS General Director (Authorized Signature)

First release date : July. 10, 2023
Latest release date : July. 10, 2023



Validation and Verification
VB013

Detail verification categories

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

GHG emissions (unit: Tonnes CO ₂ e)	Location & Information
	PlayNitride Inc. Zhunan Plant 、 Taipei-Xindian Office 、 Taipei-Zhonghe Office 、 Taiyuan Office 、 Tainan Office
Category 1: Direct GHG emissions and removals	972.28
Category 2: Indirect GHG emissions from imported energy	3,556.31
Category 4: Indirect GHG emissions from products used by an organization	794.84

Location information	
Zhunan Plant	No.13, Kezhong Rd., Zhunan Township, Miaoli County
Taipei-Xindian Office(Jan.~Oct.)	9F., No. 117, Minquan Rd., Xindian Dist., New Taipei City
Taipei- Zhonghe Office (Nov.~Dec.)	13F.-6, No.268, Liancheng Rd., Zhonghe Dist., New Taipei City
Taiyuan Office	6F.-6, No. 6, Taiyuan 1st St., Zhubei City, Hsinchu County
Tainan Office	3F-2, No.18, Aly.21, Ln.279, Zhongzheng Rd., Yongkang Dist., Tainan City

- Verification duration : Jan. 1, 2022 to Dec. 31, 2022
- Types of GHGs included : CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃
- GWP applied : The IPCC 2021 AR6 GWP values are applied in this inventory.
- Electricity emission factor : 0.495 KgCO₂e/kWh (Announced by Bureau of Energy, Ministry of Economic Affairs in Jun. 21, 2023).
- Consolidation approach : Control
- The version of inventory sheet : 2022 PlayNitride GHG inventory sheet_20230630
- The version of GHG assertion : 2022 PlayNitride GHG inspection report_20230630

Materiality Threshold : 5 %

Level of Assurance : Reasonable level of assurance

Verification agreement :

ISO 14064-3:2019 Greenhouse gases - Part 3: Specification with guidance for the verification and validation of greenhouse gas statements.

Verification criteria :

ISO 14064-1:2018 Greenhouse gases - Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals

Verification opinion :

According to the verification process and procedures carried out by the "Industrial Technology Research Institute (Center for Measurement Standards)", there is sufficient evidence to show that the GHG statements of " PlayNitride Inc. " are not substantially different. The unmodified historical GHG data and related information are presented fairly based on ISO 14064-1:2018. The GHG statements are the responsibility of " PlayNitride Inc. " .

Verification process date :

Document review: May 26, 27, 28, 29, 2023

Stage 1 verification: June 16, 2023

Stage 2 verification: June 30, 2023

Confidentiality

The reports and attachments may contain relevantly confidential information belonging to " PlayNitride Inc. ". In addition to being submitted as governmental applications or certification documents, the reports and attachments are not allowed to be edited, duplicated, or published without " PlayNitride Inc. " 's agreement in written form.

Avoidance of conflict of interest

The report and attachments are in full compliance with the standard methods and procedures of the competent authority, and the inspection operations are conducted in an impartial and honest manner. If not, the auditing institution not only has to bear the relevant compensation duties, but also to receive legal charges and punishment. ITRI has no financial investment relationship with the inspected unit and complies with the requirements of the competent authority to avoid conflicts of interest. If there are any violations of the aforementioned facts, which are verified by the competent authority, this report and the contents of the attachments are willing to accept the decision of the competent authority as invalid.

Disclaimer

The content of this statement is prepared by "Industrial Technology Research Institute (Center for Measurement Standards)" based on the verification results of " PlayNitride Inc. " 's greenhouse gas claims and is issued after its consent. Local ordinances, and the responsibility for any published international guidelines and regulations; "Industrial Technology Research Institute (Center for Measurement Standards) " is not required to represent it to other organizations other than customers.