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Bureau Veritas Certification

Greenhouse Gases Verification Statement

is awarded to

JIANGSU ZHENJIANG NEW ENERGY EQUIPMENT CO., LTD

AVI MANUFACTURING CO.,LTD

JIANGYIN ZHENJIANG ENERGY TECHNOLOGY CO. LTD

Verified address: Zhencheng Road No. 2608, Jiangyin City

Guibin Road No. 60, Jiangyin City

Jiangshi Road No. 28, Lingang Street, Jiangyin City

Organizational boundaries: Activities and facilities of Jiangsu Zhenjiang New Energy Equipment Co., LTD/ AVI Manufacturing Co.,LTD/ Jiangyin Zhenjiang Energy Technology Co. LTD. under operational control

Reporting boundaries: Direct GHG emissions generated in manufacturing of wind power equipment, photovoltaic equipment components, and wind power facility assembly of Jiangsu Zhenjiang New Energy Equipment Co., LTD/ AVI Manufacturing Co.,LTD/ Jiangyin Zhenjiang Energy Technology Co. LTD and related management activities within the organizational boundaries, as well as significant indirect greenhouse gases emissions

Limitations and exclusions: Exclude other non-significant indirect GHG emissions

Level of assurance: Reasonable

Bureau Veritas Certification (Beijing) Co., Ltd.

certifies that the organization has conducted Greenhouse Gas inventory in accordance with the requirements of the standard detailed below, and verification data are reasonable measurement and calculation. Other details are described in the appendix.

ISO 14064-1:2018

Verified from 01/01/2022 to 31/12/2022:

Category 1: Direct GHG emissions: 3,310.56 tonnes of CO₂e

Category 2: Indirect GHG emissions from imported energy: 26,459.22 tonnes of CO₂e

Category 3: Indirect GHG emissions from transportation: 11,046.66 tonnes of CO₂e

Category 4: Indirect GHG emissions from products used by organization: 185,972.44 tonnes of CO₂e

Category 5: Indirect GHG emissions associated with the use of products from the organization: Non-significant indirect GHG emissions, Unquantified

Category 6: Indirect GHG emissions from other sources: Non-significant indirect GHG emissions, Unquantified

Total GHG emissions: 226,788.88 tonnes of CO₂e

Statement No.: EMI19673994

Issue date: 24/08/2023

Version No.: 1

Signed on behalf of BVC (Beijing) Co., Ltd.

Certification body address: Room 02, 9 / F, West Office Building 1, Oriental Economic and Trade City, Oriental Plaza, No.1 East Chang'an Street, Dongcheng District, Beijing, China. 100738

Further clarifications regarding the verification scope of this statement may be obtained by consulting the organization.
To check this statement validity please call: +86 021-23190306



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Greenhouse Gases Verification Statement (Appendix)

Jiangsu Zhenjiang New Energy Equipment Co., LTD/ AVI Manufacturing Co.,LTD/ Jiangyin Zhenjiang Energy Technology Co. LTD has commissioned Bureau Veritas (Beijing) Co., Ltd. to conduct a third-party verification on the GHG emissions within its reporting boundary. Key information is listed below.

GHG Inventory categories	GHG Source	GHG	Factor		Reference
			Quantity	Unit	
Direct GHG emissions	Diesel of Generat	CO ₂	74100	kg CO ₂ /TJ	IPCC 2006
		CH ₄	3	kg CH ₄ /TJ	
		N ₂ O	0.6	kg N ₂ O/TJ	
	LPG of canteen& workshops	CO ₂	63100	kg CO ₂ /TJ	
		CH ₄	1	kg CH ₄ /TJ	
		N ₂ O	0.1	kg N ₂ O/TJ	
	Natural gas of canteens& RTO	CO ₂	56100	kg CO ₂ /TJ	
		CH ₄	1	kg CH ₄ /TJ	
		N ₂ O	0.1	kg N ₂ O/TJ	
	Propane of cutting machine	CO ₂	3	kg CO ₂ e/kg	Mass balance method
	Gasoline of Car	CO ₂	69300	kg CO ₂ /TJ	IPCC 2006
		CH ₄	3.8	kg CH ₄ /TJ	
		N ₂ O	5.7	kg N ₂ O/TJ	
	Diesel of Truck	CO ₂	74100	kg CO ₂ /TJ	
		CH ₄	3.9	kg CH ₄ /TJ	
		N ₂ O	3.9	kg N ₂ O/TJ	
	Diesel of Fork cart	CO ₂	74100	kg CO ₂ /TJ	IPCC AR6
		CH ₄	4.15	kg CH ₄ /TJ	
		N ₂ O	28.6	kg N ₂ O/TJ	
	refrigerant	R407C	1908	kg CO ₂ e/kg	
		R410a	2255.5	kg CO ₂ e/kg	IPCC AR6
		R22	1960	kg CO ₂ e/kg	
		R32	771	kg CO ₂ e/kg	
	CO ₂ Fire Extinguisher	CO ₂	1	kg CO ₂ e/kg	Mass balance method
	CO ₂ Protective welding	CO ₂	1	kg CO ₂ e/kg	
Indirect GHG emissions form imported energy	Power	CO ₂	0.5703	kg CO ₂ e/KWh	Notice on Doing a Good Job in the Management of Greenhouse Gas Emission Reports for Enterprises in the Power Generation Industry from 2023 to 2025
Indirect GHG emissions from transportation	Road freight (Medium truck)	CO ₂	0.042	kg CO ₂ e/(t • km)	Carbon dioxide emission factors of road traffic in different provinces of China
	Road freight (Heavy truck)	CO ₂	0.049	kg CO ₂ e/(t • km)	
	Sea freight	CO ₂	0.0161	kg CO ₂ e/(t • km)	UK Government GHG Conversion Factors for Company Reporting-2022
	Air freight (With RF)	CO ₂	1.0189	kg CO ₂ e/(t • km)	

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	Railway freight	CO ₂	0.0109	kg CO ₂ e/ (t • km)	CLCD
	Air Transportation	CO ₂	0.0925	kg CO ₂ e/Pkm	Emission_Factors_fro m_Cross_Sector_Tool s_March_2017
	Car (passenger transport)	CO ₂	0.0410	kg CO ₂ e/Pkm	Carbon dioxide emission factors of road traffic in different provinces of China
	Railway (passenger transport)	CO ₂	0.0202	kg CO ₂ e/Pkm	Research on Carbon Reduction and Economic Environment Mutual Feedback in China's High Speed Railway Operation
	Medium car	CO ₂	0.1847	kg CO ₂ e/km	UK Government GHG Conversion Factors for Company Reporting-2022
	Medium car (EV)	CO ₂	0.2311	kWh (Net)/km	
Indirect GHG emissions from products used by organizati on	Hot-rolled steel plate	CO ₂	2.40	kg CO ₂ e/kg	GBT 51366-2019
	Carbon steel	CO ₂	2.05	kg CO ₂ e/kg	
	Paint	CO ₂	0.86	kg CO ₂ e/kg	Ecoinvent Version 3.9.1 (2022) Database
	Commercial and industrial waste electricity	CO ₂	21.2802	kgCO ₂ e/t	UK Government GHG Conversion Factors for Company Reporting-2022
	Machinery (not elsewhere classified)	CO ₂	4.2530	kg CO ₂ e/USD	GHG Protocol Scope 3 Evaluator tool
	Upstream emissions of purchased electricity	CO ₂	0.1639	kg CO ₂ e/kWh	UK Government GHG Conversion Factors for Company Reporting-2021
	Transmission and distribution (T&D) losses	CO ₂	0.0091	kg CO ₂ e/kWh	
	WTT-Natural gas	CO ₂	0.3459	kg CO ₂ e/m ³	
	WTT-Propane	CO ₂	350.4556	kg CO ₂ e/t	
	WTT-LPG	CO ₂	347.0093	kg CO ₂ e/t	
	WTT-Diesel	CO ₂	0.6099	kg CO ₂ e/L	
	WTT-Petrol	CO ₂	0.6133	kg CO ₂ e/L	

Above have been verified to be appropriate, except GHG emission sources that are not economically or technically feasible to verify.

Lead verifier: Vistar Chang

Verification date: 18/08/2023

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