

Statement No.: C522937-2021-DNV-TWN Issued date: 30 May, 2022

Page 1 of 3

This is to verify initiate reporting of Greenhouse Gas Inventory Management Report (2021) of

AU Optronics Corporation

Scope of Verification

DNV Business Assurance (DNV) has been commissioned by AU Optronics Corporation to perform a verification of the greenhouse gas assertion of Greenhouse Gas Inventory Management Report (2021) (hereafter the "Inventory Report") with respect to the sites listed in Appendix.

The scope of indirect emissions, other than Imported Energy with specified/limited list of sources, was defined by AUO's own pre-determined criteria for significance of indirect emissions, considering the intended use of the GHG inventory:

Category	Subcategory	Boundary		
Indirect GHG emissions from	Upstream transportation	Transportation of selected purchased goods, such as glass substrate • PI		
transportation	and distribution	spacer · target · gaseous chemicaletc.		
	Business travel	Transportation of employees for business-related activities		
	Employee commuting	Transportation of employees travelling between company and residence		
		place, factory shuttle bus included		
		(employees located at Mainland and overseas plants were not included)		
	Downstream	Transportation of products sold by the Company		
	transportation and			
	distribution			
Indirect GHG emissions from	Upstream leased assets	Operation of assets leased by AUO and not included in scope 1 and scope 2		
products used by organization		- reported by lessee.		
	Purchased goods and	Upstream (cradle-to-gate) emissions of selected purchased goods, such as		
	services	glass substrate, liquid crystals, photoresist, developer, etchant, stripper		
		and thinneretc		
	Fuel-and-energy-related	Upstream emissions of purchased fuels (Diesel Oil, Liquefied Petroleum		
	activities (not included in	Gases, Motor Gasoline and Natural Gas) and electricity		
	Scope 1 or 2)			
	Waste generated in	Transportation and disposal or treatment of waste		
	operations	(waste generated in Mainland and overseas plants were not included)		
Indirect GHG emissions	Investments	Emissions of subsidiary, AUO Crystal Corp., from energy use (Diesel Oil and		
associated with the use of		electricity)		
products from the				
organization				

Verification Criteria and GHG Programme

The verification was performed on the basis of ISO 14064-1:2018, Corporate Value Chain (Scope 3) Accounting and Reporting Standard, as well as IPCC 2006 Tier 2b methodology for fluorinated GHG emissions inventory, given to provide for consistent GHG emission identification, calculation, monitoring and reporting. The verification was conducted in accordance with ISO 14066:2011, ISO 14065:2013 and ISO 14064-3:2006.

Verification Statement

It is DNV's opinion that the Inventory Report (2021), which was published on April 30, 2022, 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 GHG emissions and Indirect GHG emissions from imported energy, the reliability of the information within the Inventory Report (2021) were verified with reasonable level of assurance.
- For the other indirect GHG emissions and the fluorinated greenhouse gases emission reduction, the involved information were verified and tested using agreed-upon procedures, AUP, defined in Inventory Report.

Chun-Nan Lin GHG Verifier

Place and date:

Taipei, 30 May, 2022

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



Statement No.: C522937-2021-DNV-TWN Place and date: Taipei, 30 May, 2022

Page 2 of 3

Supplement to Statement

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 1st January, 2021 to 31st December, 2021, it is DNV's opinion that the Inventory Report results in quantification of GHG emissions that are real, transparent and measurable.

Organizational Boundary of Verification

Financial Management Control Operational Management Control Equity Share

GHGs Verified

□CO2 □CH4 □N2O □HFCs □PFCs □SF6 □NF3

Direct Emissions: 79,186.29 tonnes CO2e

Imported Energy Indirect Emissions: 2,841,287.55 tonnes CO2e

Quantification of the other indirect emissions:

Category	Subcategory	Tonnes CO2
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Indirect GHG emissions from transportation	Upstream transportation and distribution	7,972.00
	Business travel	869.04
	Employee commuting	38,732.73
	Downstream transportation and distribution	67,284.90
Indirect GHG emissions from products used	Upstream leased assets	168.63
by organization	Purchased goods and services	616,395.10
	Fuel-and-energy-related activities (not included in Scope 1 or 2)	479,272.02
	Waste generated in operations	25,660.99
Indirect GHG emissions associated with the use of products from the organization	Investments	49,729.23

The indirect GHG emissions from imported energy of operations located at Taiwan were calculated based on 2020 electricity emission factor of 0.502 kg CO2-e/kwh, which was announced by Bureau of Energy, Ministry of Economic Affairs. The Global Warming Potential (GWP) of IPCC AR4 (2007) was applied for Direct and Imported Energy Indirect Emissions, while IPCC AR5 (2013) was applied for the other Indirect Emissions.

The fluorinated greenhouse gases ("FCs" defined by 2006 IPCC Guidelines) emissions in year 2021 with implementing abatement equipment was calculated as 14,114.33 Tonnes CO2-e, and self-declared 1,937,601.85 Tonnes CO2-e emission reduction, according to the Tier 2b method referred to 2006 IPCC Guidelines for National Greenhouse Gas Inventories Volume 3 Industrial Processes and Product Use, Chapter 6 Electronics Industry Emissions.

Ve	rification Opinion
	unmodified
	modified
	adverse



Statement No.: C522937-2021-DNV-TWN Page 3 of 3 Place and date: Taipei, 30 May, 2022

Appendix

The greenhouse gas assertion of AU Optronics Corporation Greenhouse Gas Inventory Management Report (2021) with respect to the following sites:

Site	Fab	Address	Total Emissions (Tonnes CO2-e)	Total Direct Emissions (Tonnes CO2-e)	Total Energy Indirect Emissions (Tonnes CO2-e)
AUHC	Headquarters/ L3B	No. 1, Li-Hsin Rd. 2, Hsinchu Science Park, Hsinchu, Taiwan, R.O.C.	19,751.02	1,540.67	18,210.35
	Global Research Center	No. 1, Gongye E. 3rd Rd., Hsinchu City, Taiwan (R.O.C.)	1,316.97	36.07	1,280.90
	L3C	No. 23, Li-Hsin Rd., Hsinchu Science Park, Hsinchu, Taiwan, R.O.C.	43,189.65	1,062.41	42,127.24
	Dormitory	Mabuville at Beipu Township, Hsinchu County, Taiwan, R.O.C	743.72	7.38	736.33
AULT	L4A/L5A/L5B	No. 1, Xinhe Rd., Aspire Park, Lungtan, Taoyuan, Taiwan, R.O.C.	230,992.61	9,135.86	221,856.75
AULK	L6B	No. 228, Lungke St., Lungtan, Taoyuan, Taiwan, R.O.C. / No. 288, No. 338, No. 338-1, Lungyuan Rd. 1, Lungtan, Taoyuan, Taiwan, R.O.C.	296,139.71	10,700.61	285,439.10
AUHY	L3D/L5D	No. 189, Hwaya Rd. 2, Kueishan, Taoyuan, Taiwan, R.O.C.	267,807.61	8,022.52	259,785.09
AUTC	L5C/L6A/L7A/ L7B/L8A	No. 1, JhongKe Rd., Central Taiwan Science Park, Taichung, Taiwan, R.O.C. / No. 2, No. 3, Keya Rd., Central Taiwan Science Park, Taichung, Taiwan, R.O.C.	1,015,674.05	20,977.68	994,696.37
AUHL	L8B	No. 1, Machang Rd., Houli Dist., Taichung City, Taiwan, R.O.C.	345,261.40	7,118.97	338,142.43
AUTN	C4A/C5D/C6C	No.36, Keji 1st Rd., Annan Dist., Tainan City, Taiwan, R.O.C.	63,830.61	363.35	63,467.26
AUKH	C5E	No.9, Luke 3rd Rd., Luzhu Dist., Kaohsiung City, Taiwan, R.O.C.	28,577.97	150.89	28,427.08
AUSZ	S01/S02/S06	No. 398, Suhong Zhong Road, Suzhou Industrial Park, 215021, China	124,069.17	3,408.56	120,660.61
AUXM	S11/S13/S17	No. 1689, Xiang An North Road, Xiang An Branch, Torch Hi-tech Industrial Development Zone, Xiamen, 361102, China	93,200.74	2,530.15	90,670.59
AUKS	L6K	No. 6, Longteng Rd., Kunshan Economic-Technological Development Area, China	307,768.97	10,158.77	297,610.20
AUST	L4B	No. 10, Tampines Industrial Avenue 3, Singapore 528798	80,476.72	3,801.77	76,674.95
AUSK	E11/E12	Bratislavska 517, 911 05 Trencin , Slovak Republic	318.10	135.94	182.16
AUSH	Kunshan office	No. 6, Longteng Rd., Kunshan Economic & Technical Development Zone, Kunshan City 215300, China	1,354.82	34.69	1,320.13
	Total			79,186.29	2,841,287.55