



財團法人

金屬工業研究發展中心

METAL INDUSTRIES RESEARCH &
DEVELOPMENT CENTRE

溫室氣體查證意見

GHG Verification Opinion

英業達股份有限公司

Inventec Corporation.

台北市士林區後港街 66 號

No.66, Hougang Street, Shilin District, Taipei City, Taiwan, R.O.C.

經本中心依據 ISO 14064-3:2019 完成查證並符合下列標準要求

Has been verified in accordance with ISO 14064-3:2019 as meeting the requirements of

ISO 14064-1:2018

直接溫室氣體排放量 Direct greenhouse gas emission	7,344.3779	公噸二氧化碳當量(tonnes CO ₂ e)
間接溫室氣體排放量 Indirect greenhouse gas emission	972,643.3810	公噸二氧化碳當量(tonnes CO ₂ e)
(所在地基準 Location-based Approach)	943,558.0810	公噸二氧化碳當量(tonnes CO ₂ e)
(市場基準 Market-based Approach)		
直接與間接溫室氣體排放總量 Direct and indirect GHG emissions	979,987.759	公噸二氧化碳當量(tonnes CO ₂ e)
(所在地基準 Location-based Approach)	950,902.459	公噸二氧化碳當量(tonnes CO ₂ e)
(市場基準 Market-based Approach)		

溫室氣體排放量期間：2022 年 01 月 01 日至 2022 年 12 月 31 日

The GHG emissions information for the period from 2022-01-01 to 2022-12-31

意見編號
Opinion No : MIRDC-2023-01
簽署日期
Approved Date : 2023.04.14

簽署人 :
Signatory

林仁益



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Role and Responsibility

The management of Inventec Corporation ensures that the development, maintenance and documentation of the greenhouse gas information system have met the standard requirements also responsible for assessing, determining and reporting GHG emissions information and providing other information needed to support GHG statement.

Metal Industries Research & Development Center (MIRDC) upholds the guidelines of a third-party verification agency, and after an agreement between the two parties, based on Inventec's statement on greenhouse gas emissions from January 1, 2022 to December 31, 2022, and conduct greenhouse gas emission verification activities in the period 03 March 2023 to 27 March 2023, it proposes greenhouse gas verification opinions.

Scope

◆ Inventec Corporation

● Inventec Corporation- Shilin site (IET)

- No. 66, Hougang Street, Shilin District, Taipei City, Taiwan, R.O.C.
- No. 166, Section 4, Chengde Road, Shilin District, Taipei City, Taiwan, R.O.C.

● Inventec Corporation- Taipei Office

- 2F-3, No. 343, Section 5, Nanjing East Road, Songshan District, Taipei City, Taiwan, R.O.C.
- No. 349, Section 5, Nanjing East Road, Songshan District, Taipei City, Taiwan, R.O.C.
- 8F-2, No. 24, Jilin Road, Zhongshan District, Taipei City, Taiwan, R.O.C.

● Inventec Corporation- Tainan Buildings

- No. 498, Section 2, Bentian Road, Annan District, Tainan City, Taiwan, R.O.C.
- No. 26, Gongye 3rd Road, Annan District, Tainan City, Taiwan, R.O.C.

● Inventec Corporation- Taoyuan site (TAO)

- No. 88, Dazhi Road, Taoyuan District, Taoyuan City, Taiwan, R.O.C.
- No. 18, Xinghua Road, Taoyuan District, Taoyuan City, Taiwan, R.O.C.

● Inventec Corporation- Taoyuan site (TRDC/ITO)

- No. 349, Section 2, Renhe Road, Daxi District, Taoyuan City, Taiwan, R.O.C.

● Inventec Corporation- Tokyo office in Japan (IJC)

- 7F, No.1, Shimbashi Ekimae Building, 2-20-15 Shimbashi, Minato-ku, Tokyo, 105-0004, Japan.

◆ Inventec (Chongqing) Corporation (ICC)

- No. 66, West District 2nd Road, Shapingba District, Chongqing, P.R.C.
- Inventec Living Area, Huzeng Road, Shapingba District, Chongqing, P.R.C.
- Building #34, No. 66, Daxuecheng East Road, Shapingba District, Chongqing, P.R.C.

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◆ **Inventec (Pudong) Technology Corporation (IPT)**

- No. 789 Puxing Highway, Minhang District, Shanghai, P.R.C.
- No. 189, Alley 131, Kanghua Road, Pujiang Town, Minhang District, Shanghai, P.R.C.
- No. 1, Alley 200, Jianghua Road, Pujiang Town, Minhang District, Shanghai, P.R.C.
- No. 18, Alley 400, Jianghua Road, Pujiang Town, Minhang District, Shanghai, P.R.C.

◆ **SQ Technology (Shanghai) Corporation (SQT)**

- No. 789, Puxing Highway , Minhang District, Shanghai, P.R.C.

◆ **Inventec (Czech) S.R.O (ICZ)**

- Modrice, Central Trade Park, Evropska 863 664 42, Czech Republic.
- Tuřanka 1312/106, Brno-Slatina, 627 00, Czech Republic.
- Tuřanka 1328/102, Brno-Slatina, 627 00, Czech Republic.

◆ **IEC Technologies, S . de R. L. de C. V. (IMX)**

- Blvd. Independencia No.10150, Col. Municipio Libre, CD. Juarez, Chihuahua, Mexico
32575
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32575

- The IPCC 2021 AR6 GWP values are applied in this inventory.
- The GHG emissions of each category is described as below :

Category	Content	Description	GHG Emissions (tonnes CO ₂ e)	
			Location-based Approach	Market-based Approach
Category 1	Direct GHG emissions and removals	This direct GHG emissions are the sum of owned or controlled by the organization within the organization.	7,344.3779	
Category 2	Indirect GHG emissions from imported energy	Use of electricity under control	93,424.5546	64,339.2546
Category 3	Indirect GHG emissions from transportation	Transportation of specific raw materials	1,373.2516	
		Transportation for distribution of specific product	119,986.0993	
		Business travel for aviation	261.7489	
		Transportation for employee commuting	2,732.0693	
		Waste transportation	265.7168	
Category 4	Indirect GHG emissions from products used by organization	Electricity usage in the production process of specific raw materials	170,931.2258	
		Waste disposal	1,397.8916	
Category 5	Indirect GHG emissions associated with the use of products from the organization	Specific product use stage	543,288.4470	
		Investment	33,885.2167	
		Downstream leased assets	5,097.1594	
Category 6	Indirect GHG emissions from other sources	—	—	
Direct and Indirect GHG emissions and removals			979,987.759	950,902.459

Conclusion

The above verification opinions are based on GHG statement of Inventec Corporation in year 2022 and the impartial verification process by MIRDC. MIRDC carried out verification procedures in accordance with the verification criteria. The evidences show that the GHG statement provided by Inventec Corporation does not violate the 5% materiality difference. Category 1 and Category 2 are reasonable assurance levels of material correctness.

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Categorical GHG emissions reporting information:

● Individual(the parent company)

Company		Category	GHG Emissions (tonnes CO ₂ e)			
			Location-based Approach	Market-based Approach	Total	
Inventec Corporation	Shilin site(IET)	Category 1	331.2377		2951.5356	
		Category 2	2,620.2979			
	Taipei Office	Category 1	—		0.4886	
		Category 2	0.4886			
	Tainan Buildings	Category 1	—		10.4152	
		Category 2	10.4152			
	Taoyuan site(TAO)	Category 1	1,595.1022		15362.2583	
		Category 2	13,767.1561			
	Taoyuan site (TRDC/ITO)	Category 1	96.2388		3542.0866	
		Category 2	3,445.8478			
	Tokyo office in Japan (IJC)	Category 1	0.2353		5.1307	
		Category 2	4.8954			
	Total		Category 1	2,022.8140		21,871.9150
			Category 2	19,849.1010		

● The subsidiary

Company		Category	GHG Emissions (tonnes CO ₂ e)			
			Location-based Approach	Market-based Approach	Total	
Inventec (Chongqing) Corporation (ICC)	Category 1	3,199.3106		35,882.4765	6,797.1765	
	Category 2	32,683.1659	3,597.8659			
Inventec (Pudong) Technology Corporation (IPT)	Category 1	910.1522		28,351.3092		
	Category 2	27,441.1570				
SQ Technology (Shanghai) Corporation (SQT)	Category 1	399.8173		4,787.9651		
	Category 2	4,388.1478				
Inventec (Czech) S.R.O. (ICZ)	Category 1	356.1248		3,603.5984		
	Category 2	3,247.4736				
IEC Technologies, S . de R. L. de C. V. (IMX)	Category 1	456.1590		6,271.6683		
	Category 2	5,815.5093				
Total		Category 1	5,321.5639		78,897.0175	6,797.1765
		Category 2	73,575.4536	3,597.8659		

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Categorical GHG emissions reporting information:

● Inventec Corporation - Shilin site (IET)

Category	Content	GHG Emissions (tonnes CO ₂ e)
Category 1	Direct GHG emissions and removals	331.2377
Category 2	Indirect GHG emissions from imported energy	2,620.2979
Category 3	Indirect GHG emissions from transportation	475.3242
Category 4	Indirect GHG emissions from products used by organization	31.4229
Category 5	Indirect GHG emissions associated with the use of products from the organization	34,991.4687
Category 6	Indirect GHG emissions from other sources	—
Direct and Indirect GHG emissions and removals		38,449.7514

Note : 1. Use Taiwan 2021 electricity emission factor of 0.509 kgCO₂e/kWh
 2. Uncertainty(purchased electricity): ± 5.00 %

Categorical GHG emissions reporting information:

- Inventec Corporation - Taipei Office**

Category	Content	GHG Emissions (tonnes CO ₂ e)
Category 1	Direct GHG emissions and removals	—
Category 2	Indirect GHG emissions from imported energy	0.4886
Category 3	Indirect GHG emissions from transportation	—
Category 4	Indirect GHG emissions from products used by organization	—
Category 5	Indirect GHG emissions associated with the use of products from the organization	9.0704
Category 6	Indirect GHG emissions from other sources	—
Direct and Indirect GHG emissions and removals		9.5590

Note : 1. Use Taiwan 2021 electricity emission factor of 0.509 kgCO₂e/kWh
 2. Uncertainty(purchased electricity): ± 6.71 %

Categorical GHG emissions reporting information:

● Inventec Corporation - Tainan Buildings

Category	Content	GHG Emissions (tonnes CO ₂ e)
Category 1	Direct GHG emissions and removals	—
Category 2	Indirect GHG emissions from imported energy	10.4152
Category 3	Indirect GHG emissions from transportation	—
Category 4	Indirect GHG emissions from products used by organization	—
Category 5	Indirect GHG emissions associated with the use of products from the organization	—
Category 6	Indirect GHG emissions from other sources	—
Direct and Indirect GHG emissions and removals		10.4152

Note : 1. Use Taiwan 2021 electricity emission factor of 0.509 kgCO₂e/kWh
 2. Uncertainty(purchased electricity): ± 7.07 %

Categorical GHG emissions reporting information:

● Inventec Corporation - Taoyuan site (TAO)

Category	Content	GHG Emissions (tonnes CO ₂ e)
Category 1	Direct GHG emissions and removals	1,595.1022
Category 2	Indirect GHG emissions from imported energy	13,767.1561
Category 3	Indirect GHG emissions from transportation	1,792.1046
Category 4	Indirect GHG emissions from products used by organization	227.1295
Category 5	Indirect GHG emissions associated with the use of products from the organization	3,736.4682
Category 6	Indirect GHG emissions from other sources	—
Direct and Indirect GHG emissions and removals		21,117.9606

Note : 1. Use Taiwan 2021 electricity emission factor of 0.509 kgCO₂e/kWh
 2. Uncertainty(purchased electricity): ± 7.07 %

Categorical GHG emissions reporting information:

● Inventec Corporation - Taoyuan site (TRDC/ITO)

Category	Content	GHG Emissions (tonnes CO ₂ e)
Category 1	Direct GHG emissions and removals	96.2388
Category 2	Indirect GHG emissions from imported energy	3,445.8478
Category 3	Indirect GHG emissions from transportation	3.3776
Category 4	Indirect GHG emissions from products used by organization	64.4421
Category 5	Indirect GHG emissions associated with the use of products from the organization	245.3688
Category 6	Indirect GHG emissions from other sources	—
Direct and Indirect GHG emissions and removals		3,855.2751

Note : 1. Use Taiwan 2021 electricity emission factor of 0.509 kgCO₂e/kWh
 2. Uncertainty(purchased electricity): ± 7.07 %

Categorical GHG emissions reporting information:

● Inventec Corporation - Tokyo office in Japan(IJC)

Category	Content	GHG Emissions (tonnes CO ₂ e)
Category 1	Direct GHG emissions and removals	0.2353
Category 2	Indirect GHG emissions from imported energy	4.8954
Category 3	Indirect GHG emissions from transportation	—
Category 4	Indirect GHG emissions from products used by organization	—
Category 5	Indirect GHG emissions associated with the use of products from the organization	—
Category 6	Indirect GHG emissions from other sources	—
Direct and Indirect GHG emissions and removals		5.1307

Note : 1. Use Japan 2022 electricity emission factor of 0.457 kgCO₂e/kWh
 2. Uncertainty (purchased electricity): ± 7.28 %

Categorical GHG emissions reporting information:

● Inventec (Chongqing) Corporation (ICC)

Category	Content	GHG Emissions (tonnes CO ₂ e)	
		Location-based Approach	Market-based Approach
Category 1	Direct GHG emissions and removals	3,199.3106	
Category 2	Indirect GHG emissions from imported energy	32,683.1659	3,597.8659
Category 3	Indirect GHG emissions from transportation	119,611.4283	
Category 4	Indirect GHG emissions from products used by organization	115,899.9887	
Category 5	Indirect GHG emissions associated with the use of products from the organization	103,513.3422	
Category 6	Indirect GHG emissions from other sources	—	
Direct and Indirect GHG emissions and removals		374,907.2357	345,821.9357

Note : 1. Use China 2022 electricity emission factor of 0.42 kgCO₂e/kWh
 2. Uncertainty (purchased electricity): ± 6.12 %

The international REC standard below :

Device	Country of Origin	Energy Source	GHG Emissions (tonnes CO ₂ e)	
			Location-based Approach	Market-based Approach
Rongge Hydropower Station in Guizhou Province	China	Hydro-electric	32,683.1659	3,597.8659

From Certificate ID	To Certificate ID	Number of Certificates
0000-0002-6448-6729	0000-0002-6453-7728	51 000 (51,000 MWh)

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Categorical GHG emissions reporting information:

- Inventec (Pudong) Technology Corporation (IPT)

Category	Content	GHG Emissions (tonnes CO ₂ e)
Category 1	Direct GHG emissions and removals	910.1522
Category 2	Indirect GHG emissions from imported energy	27,441.1570
Category 3	Indirect GHG emissions from transportation	281.1783
Category 4	Indirect GHG emissions from products used by organization	53,543.7736
Category 5	Indirect GHG emissions associated with the use of products from the organization	—
Category 6	Indirect GHG emissions from other sources	—
Direct and Indirect GHG emissions and removals		82,176.2611

Note : 1. Use China 2022 electricity emission factor of 0.42 kgCO₂e/kWh

2. Uncertainty (purchased electricity): ± 6.12 %

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Categorical GHG emissions reporting information:

- SQ Technology (Shanghai) Corporation (SQT)

Category	Content	GHG Emissions (tonnes CO ₂ e)
Category 1	Direct GHG emissions and removals	399.8173
Category 2	Indirect GHG emissions from imported energy	4,388.1478
Category 3	Indirect GHG emissions from transportation	2,448.4030
Category 4	Indirect GHG emissions from products used by organization	2,284.1534
Category 5	Indirect GHG emissions associated with the use of products from the organization	439,775.1048
Category 6	Indirect GHG emissions from other sources	—
Direct and Indirect GHG emissions and removals		449,295.6263

Note : 1. Use Shanghai 2022 electricity emission factor of 0.42 kgCO₂e/kWh
 2. Uncertainty (purchased electricity): ± 7.02 %

Categorical GHG emissions reporting information:

- Inventec (Czech) S.R.O (ICZ)

Category	Content	GHG Emissions (tonnes CO ₂ e)
Category 1	Direct GHG emissions and removals	356.1248
Category 2	Indirect GHG emissions from imported energy	3,247.4736
Category 3	Indirect GHG emissions from transportation	2.8561
Category 4	Indirect GHG emissions from products used by organization	188.2281
Category 5	Indirect GHG emissions associated with the use of products from the organization	—
Category 6	Indirect GHG emissions from other sources	—
Direct and Indirect GHG emissions and removals		3,794.6826

Note : 1. Use Czech Republic 2021 electricity emission factor of 0.86 kgCO₂e/kWh
 2. Uncertainty (purchased electricity): ± 7.02 %

Categorical GHG emissions reporting information:

- IEC Technologies, S. de R.L. De C.V. (IMX)

Category	Content	GHG Emissions (tonnes CO ₂ e)
Category 1	Direct GHG emissions and removals	456.1590
Category 2	Indirect GHG emissions from imported energy	5,815.5093
Category 3	Indirect GHG emissions from transportation	4.2138
Category 4	Indirect GHG emissions from products used by organization	89.9791
Category 5	Indirect GHG emissions associated with the use of products from the organization	—
Category 6	Indirect GHG emissions from other sources	—
Direct and Indirect GHG emissions and removals		6,365.8612

Note : 1. Use Mexico 2021 electricity emission factor of 0.423 kgCO₂e/kWh
 2. Uncertainty (purchased electricity): ± 5.00 %