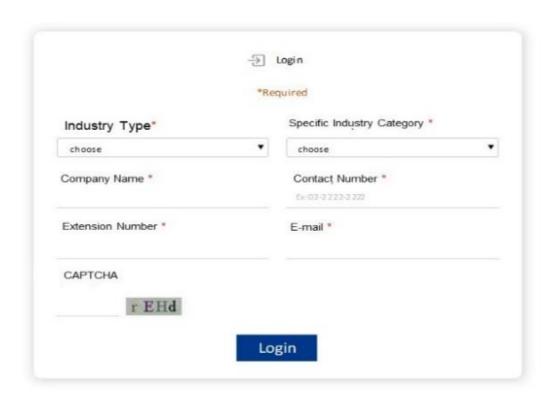
GHG Emission Calculator - Quantity of Use Example of Logistics Industry

1.Basic Information

Item Number	Name	Content to Fill In
1	Industry Type	Н
2	Specific Industry Category	5301
3	Company Name	TEST-2024
4	Contact Number	02-2911-0688
5	Extension Number	0
6	E-mail	

Carbon Emission Calculator





- 2. Basic Equipment Information (Optional)
- 3. Select Calculation Method: This example uses the Advanced Calculation Method Quantity of use (Red).



4. A logistics center has recorded its energy and resource usage as well as refrigerant equipment. The center outsources its waste management, so the waste collection weight is calculated.

According to the statistical data, the nearest incinerator is the Yongkang Waste Resource Recovery (Incineration) Plant in Tainan City. For wastewater treatment, the nearest facility is the Central Taiwan Science Park Administration-Huwei Park in Huwei Township, Yunlin County.

Statistics Table of Energy and Resource Usage for Logistics Industry

Item	Quantity	Purpose
Electricity Usage (kWh/year)	5,060,600	Electricity Usage
Water Usage (m³/year)	450	Water Usage
Diesel Usage - Fixed Source (liters/year)	80	Generator
Diesel Usage - Mobile Source (liters/year)	530	Trucks

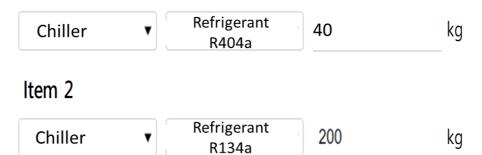
Ů	Calculated Based of Energy or Usage	n
Electricity	Water	
5060600 kWh	450	m³
Natural Gas	Gasoline	
m³		liter
Fuel Oil	Liquefied Petrol	eum Gas
m³	(barrels (20 kg)
Diesel (Mobile Source)	Diesel (Fixed	Source)
530 liter	80	liter

Refrigerant Usage Statistics for a Logistics Center Logistics Industry

Type	Quantity	Purpose
R404a(kg)	40	Chiller
R134a(kg)	200	Chiller

Refrigerant Discharge calculation

Item 1



Waste Collection for Logistics Industry

Weight of Waste Collection (tons/year)	10
Distance of Waste Transport (kilometers)	25

Waste Transport and Incineration Calculation	
Weight of garbage collection service	
10	ton
Nearest incinerator	
廢棄物焚化處理服務(臺南市永康垃圾資源回收(焚化)廠)	•
Transportation emissions - distance of garbage collection service (site to nearest incinerator)	
25	km
Wastewater Treatment Calculation	
Nearest wastewater treatment center	
廢(污)水處理服務(中部科學工業園區管理局-虎尾園區)	•

- 5. Upon completing the above information, the total greenhouse gas emissions are 2,994,952 kilograms of CO₂.
- Scope 1 emission as a percentage of total emissions 1.5%.
- In Scope 1, refrigerant R134a has the highest percentage contribution.
- Scope 2 emission as a percentage of total emissions 83.5%.
- In Scope 2, electricity usage has the highest percentage contribution.
- Scope 3 emission as a percentage of total emissions 15%.
- In Scope 3, upstream emissions come from electricity use has the highest percentage contribution.

Scope 1 Emissi	on Scope 1 Emission 43 Total	698.9	kgCO ₂	Scope 1 Emission as percentage of Total Emissions 1.5	%
Scope 2 Emission	Scope 2 Emission Total 25	04997	kgCO₂	Scope 2 Emission as percentage of Total Emissions 83.5	%
Scope 3 Emission	Scope 3 Emission Total	0275.1	公斤CO₂	Scope 3 Emission as percentage of Total Emissions ; 15	%
Scope 1 Emission	Scope 1 Emission Total 436	98.9 kgCO ₂	Scop	e 1 Emission as percentage of Total Emissions	%
Nature Gas	Direct Emissions 0		Dire	ct Emissions CO ₂ as a percentage of Total 0	
Gasoline (Mobile Source)	Direct Emissions 0		Dire	ct Emissions CO ₂ as a percentage of Total 0	
Fuel Oil	Direct Emissions : 0		Dire	ct Emissions CO ₂ as a percentage of Total 0	
LPG	Direct Emissions 0		Dire	ct Emissions CO ₂ as a percentage of Total 0	
Diesel (Mobile Source)	Direct Emissions 1404.5		Dire	ct Emissions CO ₂ as a percentage of Total 0	
Diesel (Fixed Source)	Direct Emissions 209.2		Dire	ct Emissions CO ₂ as a percentage of Total 0	
Refrigerant R134a	Direct Emissions 26010	kgCO ₂	Direct	Emissions CO ₂ as a percentage of Total 0.9	96
Refrigerant R410A	Direct Emissions 0		Dire	ct Emissions CO ₂ as a percentage of Total 0	
Refrigerant R22	Direct Emissions 0		Dire	ct Emissions CO ₂ as a percentage of Total 0	
Refrigerant R32	Direct Emissions 0		Dire	ct Emissions CO ₂ as a percentage of Total 0	
Refrigerant R404A	Direct Emissions 16075.2		Direc	t Emissions CO ₂ as a percentage of Total 0.5	
Refrigerant R507A	Direct Emissions 0		Direc	ct Emissions CO ₂ as a percentage of Total 0	
Refrigerant R744	Direct Emissions 0		Direc	tt Emissions CO ₂ as a percentage of Total 0	
Scope 2 Emission	Scope 2 Emission Total 250	4997 kgCO ₂	Scop	e 2 Emission as percentage of Total Emissions	%
Electricity	Indirect Emissions 2504997	kgCO ₂	Indirect E	missions CO ₂ as a percentage of Total 83.5	96

Scope 3 Emission	Scope 3 Emission Total 450275.1	kgCO ₂	Scope 3 Emission as percentage of Total Emissions	%	
Upstream emissions Electricity uses	Indirect Emissions 445332.8		Indirect Emissions CO ₂ as a percentage of Total L4.8		
Water uses	Indirect Emissions 134.5		Indirect Emissions CO ₂ as a percentage of Total 0		
Upstream emissions Nature Gas uses	Indirect Emissions : 0		Indirect Emissions CO ₂ as a percentage of Total 0		
Upstream emissions Gasoline (Mobile Source)	Indirect Emissions : 0	direct Emissions 0 direct Emissions 0 eect Emissions 386.9 rect Emissions 58.4	Indirect Emissions CO ₂ as a percentage of Total 0		
Upstream emissions Fuel Oil uses	Indirect Emissions 0		Indirect Emissions CO ₂ as a percentage of Total)		
Upstream emissions LPG uses	Indirect Emissions o		Indirect Emissions CO ₂ as a percentage of Total)	96	
Upstream emissions Diesel uses(Mobile Source)	Indirect Emissions 386.9		Indirect Emissions CO₂ as a percentage of Total 0		
Upstream emissions Diesel uses (Eixed Source)	Indirect Emissions 58.4		Indirect Emissions CO ₂ as a percentage of Total 0		
Waste Transport and Incineration	Indirect Emissions 3597.5		Indirect Emissions CO ₂ as a percentage of Total 0.1		
Wastewater Treatment	Indirect Emissions 765		Indirect Emissions CO ₂ as a percentage of Total 0		