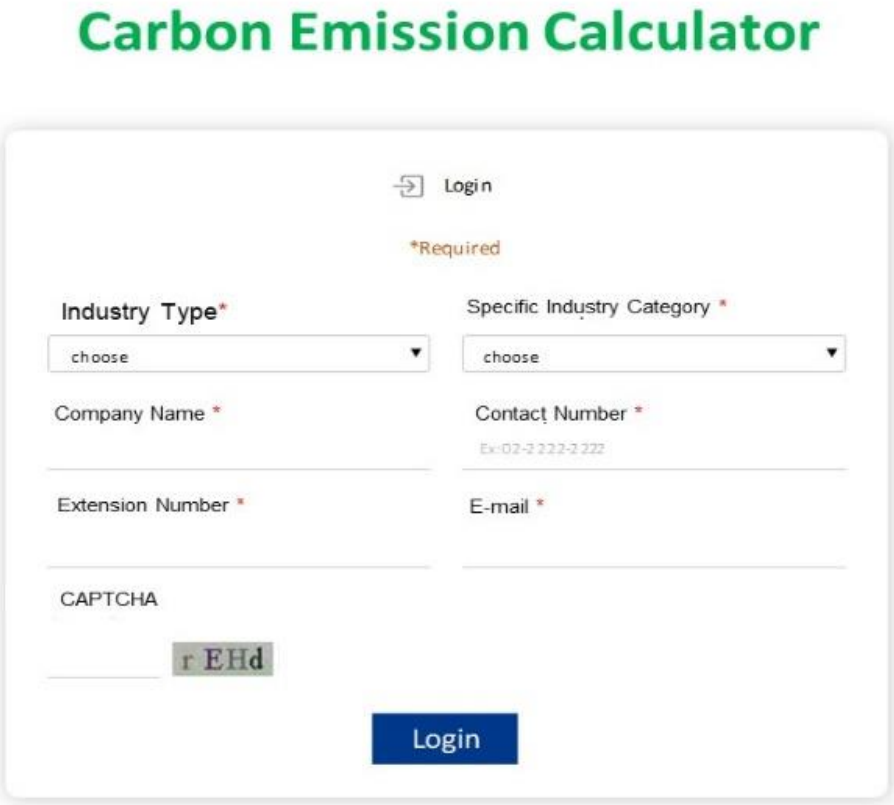
GHG Emission Calculator - Cost of use

Example of Retail Industry

1. Basic Information

Item Number	Name	Content to Fill In
1	Industry Type	G
2	Specific Industry Category	4520
3	Company Name	TEST-2024
4	Contact Number	02-2911-0688
5	Extension Number	0
6	E-mail	



經濟部商業發展署
Administration of Commerce, MOEA

2. Basic Equipment Information (Optional)

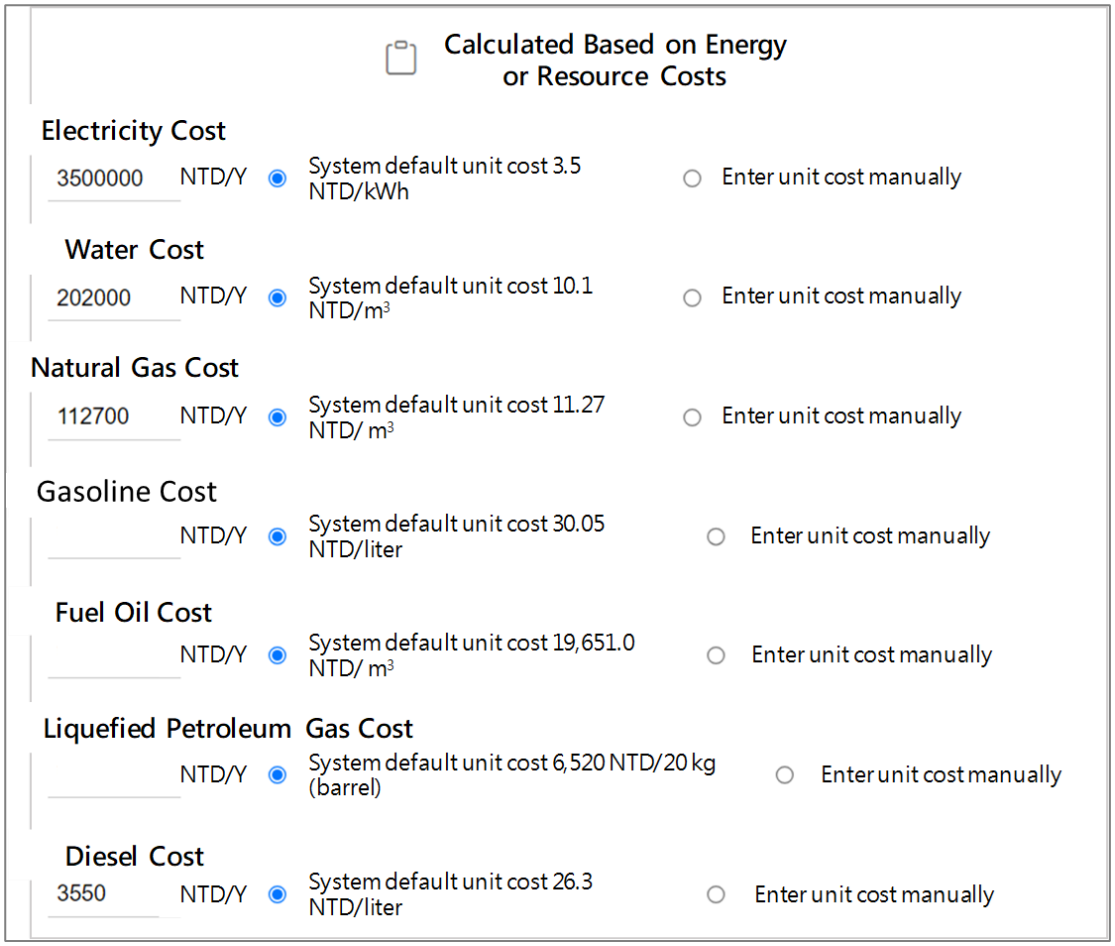
3. Select Calculation Method: This example uses the Basic Calculation Method - **cost of use (Blue)**

4. The retail industry records the energy and resource costs, while waste is handled by external contractors. Therefore, the weight of waste transported is calculated, as shown in the table below.

   According to the statistical data, the nearest incinerator is located in Miaoli County, and the nearest wastewater treatment center is the Luodong Water Resources Recycling Center.

Energy and Resource Usage Statistics for Retail Industry

Item	Quantity	Purpose
Electricity Usage (NTD/year)	3,500,000	Electricity Usage
Water Usage (NTD/year)	202,000	Water Usage
Diesel Usage - Fixed Source (NTD/year)	112,700	Food Court/Restaurant
Diesel Usage - Mobile Source (NTD/year)	3,550	Emergency Generator



Waste Statistics for a Retail Industry

Waste Quantity (tons/year)	25
Distance of Waste Transport (kilometers)	10.5

5. Upon completing the above information, the total greenhouse gas emissions are 629,045 kilograms of CO_2.
   - Scope 1 emission as a percentage of total emissions 3%.
   - In Scope 1, natural gas has the highest percentage contribution.
   - Scope 2 emission as a percentage of total emissions 78.7%.
   - In Scope 2, electricity usage has the highest percentage contribution.
   - Scope 3 emission as a percentage of total emissions 18.3%.
   - In Scope 3, upstream emissions come from electricity use has the highest percentage contribution.

Scope 1 Emissions	Scope 1 Emissions Total	19163	kg CO_2	Scope 1 Emissions as a Percentage of Total Emissions	3	%
Scope 2 Emissions	Scope 2 Emissions Total	495000	kg CO_2	Scope 2 Emissions as a Percentage of Total Emissions	78.7	%
Scope 3 Emissions	Scope 3 Emissions Total	114882	kg CO_2	Scope 3 Emissions as a Percentage of Total Emissions	18.3	%

Total Emissions	629045 kg CO_2

	Scope 1 Emissions	Scope 1 Emissions Total 19163 kg CO_2		Scope 1 Emissions as a Percentage of Total Emissions 3 %	
Scope 1	Natural Gas	Direct Emissions 18810	kg CO_2	Direct Emissions CO_2 as a percentage of Total 3	%
	Gasoline (Mobile Source)	Direct Emissions 0		Direct Emissions CO_2 as a percentage of Total 0	
	Fuel Oil	Direct Emissions 0		Direct Emissions CO_2 as a percentage of Total 0	
	LPG	Direct Emissions 0		Direct Emissions CO_2 as a percentage of Total 0	
	Diesel (Mobile Source)	Direct Emissions 0		Direct Emissions CO_2 as a percentage of Total 0	
	Diesel (Fixed Source)	Direct Emissions 353		Direct Emissions CO_2 as a percentage of Total 0.1	
	Refrigerant R134a	Direct Emissions 0		Direct Emissions CO_2 as a percentage of Total 0	
	Refrigerant R410A	Direct Emissions 0		Direct Emissions CO_2 as a percentage of Total 0	
	Refrigerant R22	Direct Emissions 0		Direct Emissions CO_2 as a percentage of Total 0	
	Refrigerant R32	Direct Emissions 0		Direct Emissions CO_2 as a percentage of Total 0	
	Refrigerant R404A	Direct Emissions 0		Direct Emissions CO_2 as a percentage of Total 0	
	Refrigerant R507A	Direct Emissions 0		Direct Emissions CO_2 as a percentage of Total 0	
	Refrigerant R744	Direct Emissions 0		Direct Emissions CO_2 as a percentage of Total 0	

	Scope 2 Emissions	Scope 2 Emissions Total 495000 kg CO_2		Scope 2 Emissions as a Percentage of Total Emissions 78.7 %	
Scope 2	Electricity	Indirect Emissions 495000	kg CO_2	Indirect Emissions CO_2 as a percentage of Total 78.7	%

	Scope 3 Emissions	Scope 3 Emissions Total 114882 kg CO_2		Scope 3 Emissions as a Percentage of Total Emissions 18.3 %	
Scope 3	Upstream emissions Electricity uses	Indirect Emissions 88000	kg CO_2	Indirect Emissions CO_2 as a percentage of Total 14	%
	Water uses	Indirect Emissions 5980		Indirect Emissions CO_2 as a percentage of Total 1	
	Upstream emissions Nature Gas uses	Indirect Emissions 5160		Indirect Emissions CO_2 as a percentage of Total 0.8	
	Upstream emissions Gasoline (Mobile Source)	Indirect Emissions 0		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 0	
	Upstream emissions LPG uses	Indirect Emissions 0		Indirect Emissions CO_2 as a percentage of Total 0	
	Upstream emissions Diesel uses(Mobile Source)	Indirect Emissions 0		Indirect Emissions CO_2 as a percentage of Total 0	
	Upstream emissions Diesel uses(Fixed Source)	Indirect Emissions 98.5		Indirect Emissions CO_2 as a percentage of Total 0	
	Waste Transport and Incineration	Indirect Emissions 8843.9		Indirect Emissions CO_2 as a percentage of Total 1.4	
	Wastewater Treatment	Indirect Emissions 6800		Indirect Emissions CO_2 as a percentage of Total 1.1	