

How to use the site (Ver.3.1)

Global Sustainability Group – [Updated: 2025/1/09]

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Notice



Notice(ご注意)

当該算定結果は、一定の条件下でのシミレーション数値です。さらに詳しい輸送条件を設定しての算定が必要な場合、弊社営業担当者にお問い合わせください。

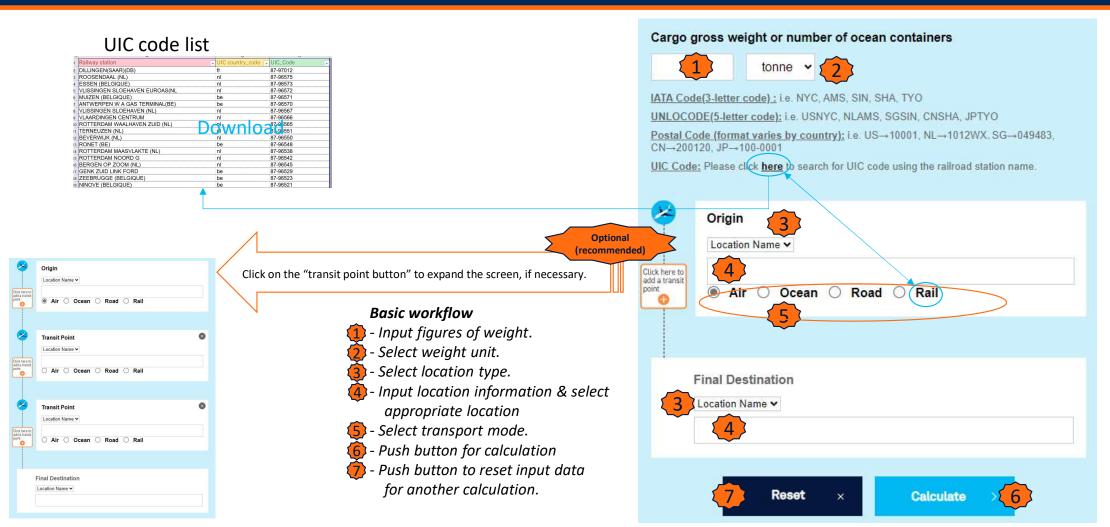
また、Origin, Transit point, destinationの各地での発生するCO2排出量は当該算定結果には含まれていません。輸送時のCO2排出量のみを対象とした算定結果が示されますので、ご留意ください。

"The calculation results are simulation figures under certain conditions. If you need calculations with more detailed transportation conditions, please contact our sales representative."

Any CO2 emissions generated at "Origin", "Transit point", and "Destination" are not included in the calculation results. Only CO2 emissions during transportation are included in the calculation results.



Basic overall workflow



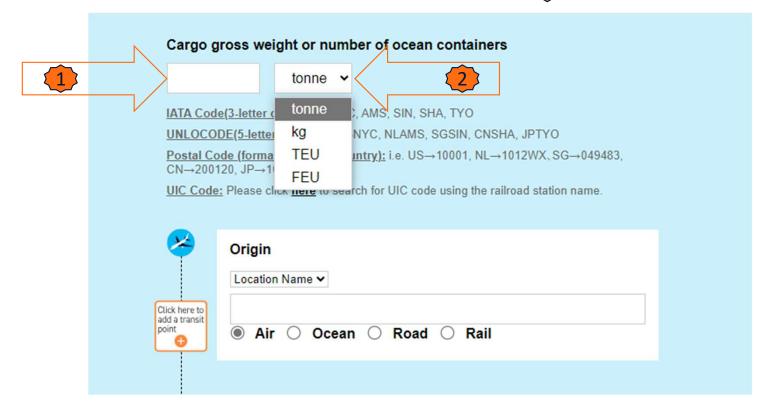


Cargo weight & weight unit

- CO2eq emissions as well as Co2 emissions can be calculated by the following steps.
 - a. Input actual gross weight, or <u>number</u> of containers for TEU/FEU



b. Select weight unit

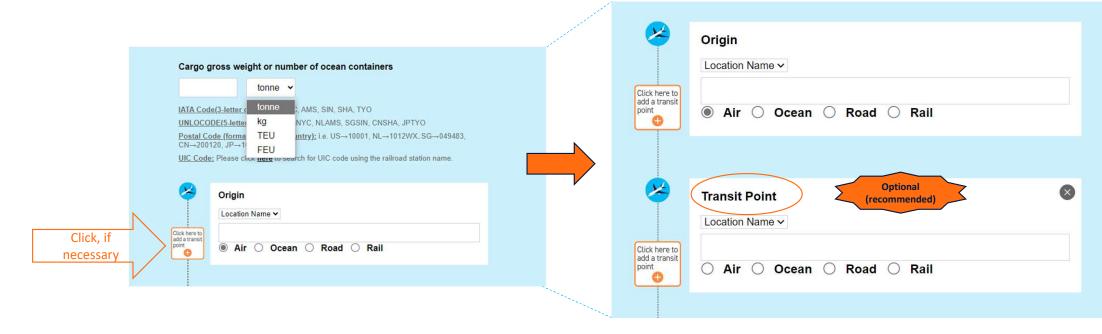




Transit point – Optional step

If there is a transit point within the transportation section, it is recommended to press the plus button to calculate each transportation section separately.
 The screen for entering transit point

The screen for entering transit point information is displayed.



If there are additional transit point, please repeat the same process. It is possible to add up to three transit points.

To cancel the entry, please press the button in the tope right corner.

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- Select the type of location at the screen of "Origin", "Transit point" and "Final destination".
 - ➤ It is <u>recommended</u> that the location type be selected according to the mode of transport.
 - ➤ Of course, separate location types can be selected for each location selection and still be calculated.

■ Location type options:

1. Location Name : City name

2. IATA Code : IATA airport code, suitable for air transport

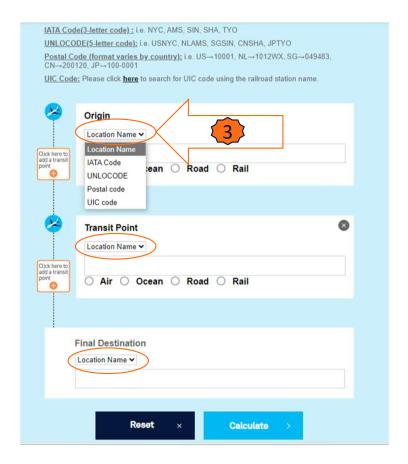
3. UNLOCDE : Five characters code, suitable for ocean

transport (The code consists of five characters: the first two represent the country code, and the remaining three indicate a specific location within that country.)

4. Postal Code : Zip-code, suitable for truck transport

5. UIC Code : Railway station code (defined by

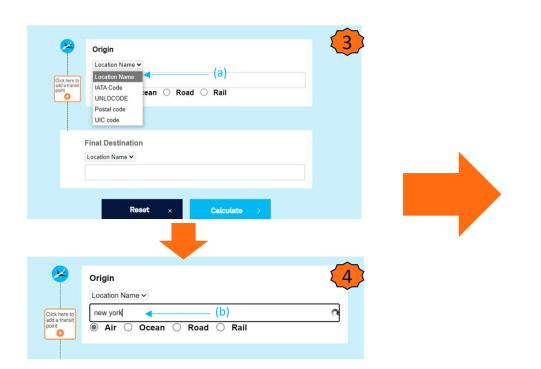
International Union Railways), suitable for railways transport.

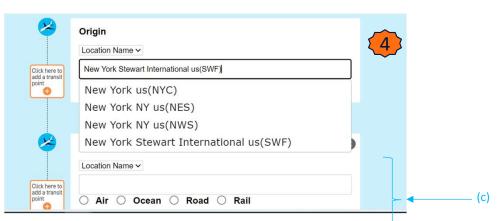




If "location name" is selected for the location type

- Option: Location Name
 - a. Select "Location Name" for origin and final destination. If necessary, do the same for transit point.
 - b. Enter city name in the box to select most suitable location form displayed locations.
 - c. Select the appropriate location name.





Note that the same location name exists in different countries

How to calculate Co2eq & CO2 emissions

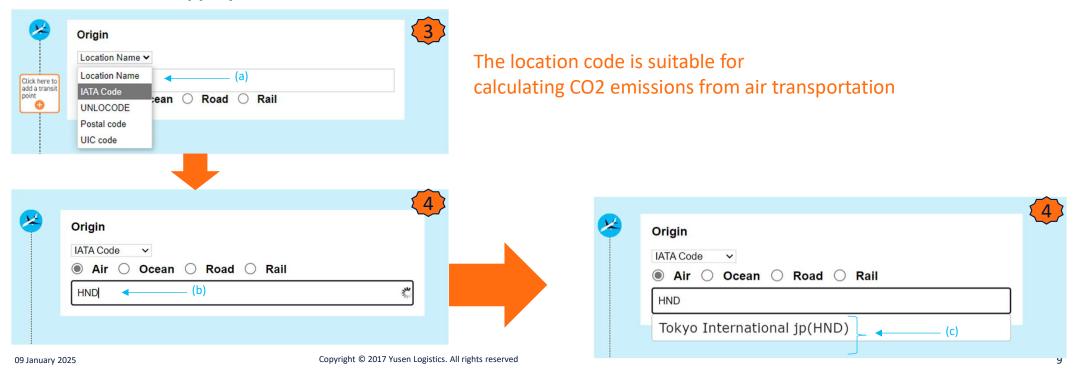


If "IATA code" is selected for the location type

- Option: IATA code: IATA airport code
 - a. Select "IATA Code" for origin and final destination. If necessary do the same for transit point.



- b. Enter the 3-letter alphabet as the IATA airport code to select the name of the airport displayed.
 - IATA airport code is available at IATA website.
- c. Select the appropriate location.



How to calculate Co2eq & CO2 emissions



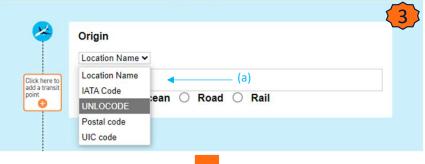
If "UNLOCODE" is selected for the location type

- Option: UNLOCODE
 - a. Select "UNLOCODE"
 - b. Enter the 5-letter alphabet as UNLOCODE and select the name of the location displayed.
 - UNLOCDE of each country can be found in website. Search by LOCODE.



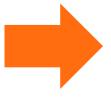
(3)

c. Select the appropriate location.



The location code is suitable for calculating CO2 emissions from Ocean transportation.







How to calculate Co2eq & CO2 emissions

If "Postal code" is selected for the location type

(3)

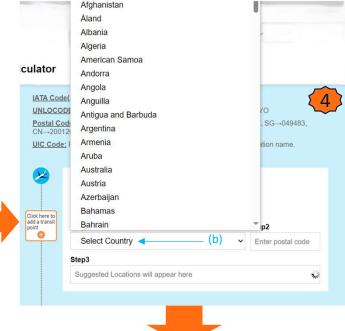
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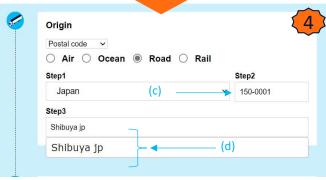


- Option: Postal code
 - a. Select "Postal code" to switch to the dedicated screen.
 - b. Select a country by typing or drilling down.
 - Enter the local postal code(zip-code)
 - d. Select the appropriate location.



The location code is suitable for calculating CO2 emissions from land transport by truck







If "UIC code" is selected for the location type

Option: UIC code

Origin

CN→200120. JP→100-0001

Origin

09 January 2025

Location Name >

Location Name

UNLOCODE Postal code

Cargo gross weight or number of ocean containers

UNLOCODE(5-letter code): i.e. USNYC, NLAMS, SGSIN, CNSHA, JPTYO

Postal Code (format varies by country): i.e. US→10001, NL→1012WX, SG→049483,

ean O Road O Rail

UIC Code: Please click here to search for UIC code using the railroad station name

IATA Code(3-letter code): i.e. NYC, AMS, SIN, SHA, TYO

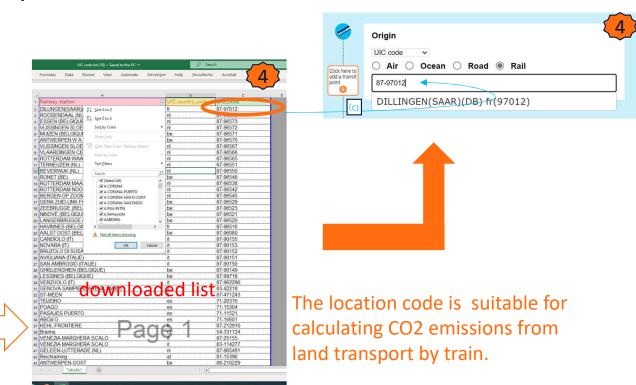
IATA Code(3-letter code): i.e. NYC, AMS, SIN, SHA, TYO

UNLOCODE(5-letter code): i.e. USNYC, NLAMS, SGSIN, CNSHA, JPTYO

Postal Code (format varies by country): i.e. US→10001, NL→1012WX, SG→049483,

UIC Code: Please click here to search for UIC code using the railroad station name.

- a. Select "UIC code" to switch to the dedicated screen.
- b. Click "here" to download a UIC code list to search for the UIC code by filtering the station name.
- c. Enter the UIC code from the list by copy and paste.



Click here to add a transit point

Air Ocean Road Rail

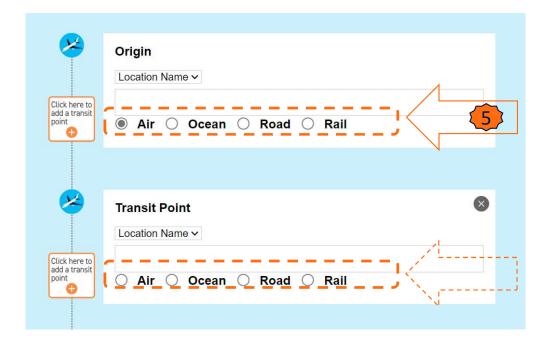
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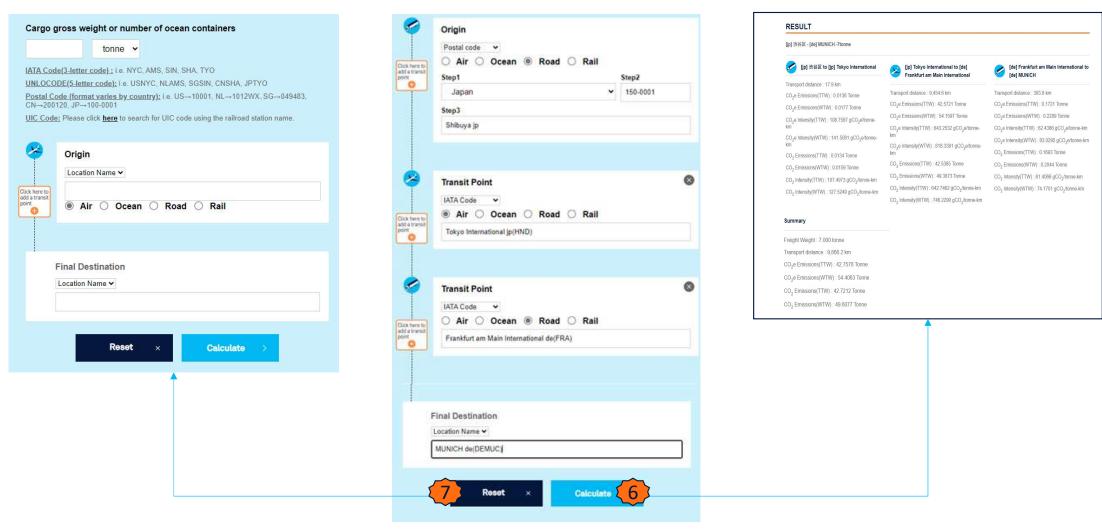
Transport mode selection

• Select the mode of transport for each leg of the shipment at the screen of "Origin" as well as of Transit (5) point





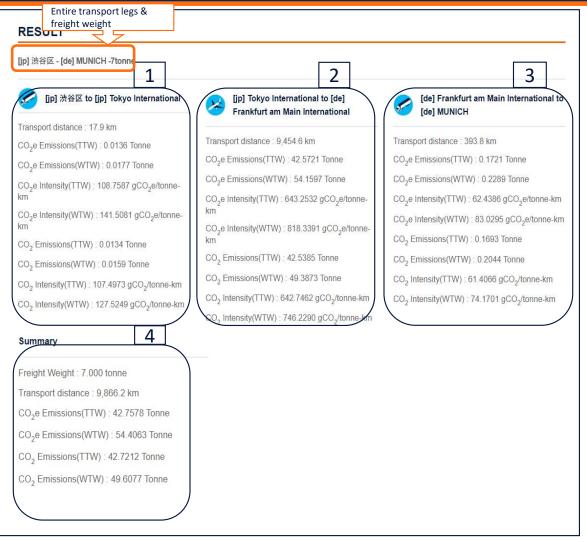




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Calculation results



- Shibuya-ku to HND airport by truck→ HND airport to Frankfurt airport by Air
- 3 ⇒ Frankfurt airport to Munich by truck
- 4 ⇒ Total of those calculation results

Each leg data shows its

- Transport mode
- Freight transport distance (Km)
- CO2 equivalent Emissions TTW/WTW(Tonne)
- CO2 Emissions _ TTW/WTW(Tonne)
- CO2 equivalent intensity _ TTW/WTW(gCO2e per tonnekm)
- Co2 intensity _ TTW/WTW(gCo2 per tonnekm)



Reference information

- CO2
 - Carbon dioxide
- CO2e, CO2equivalent
 - > Carbon dioxide equivalent
- CO2e intensity
 - ➤ A method of quantify the CO2e intensity of freight transport, calculated by dividing the total CO2e emissions by the total transport activity, measured in tonne-kilometers
- Tonne-kilometer
 - > The unit of measure for freight transport, representing the movement of one tonne of goods over a distance of one kilometer.
- TTW: Tank to Wheel(Tank to wake)
 - > TTW describes the phase where the energy carrier is converted into propulsion energy.
- WTT: Well to Tank
 - > WTT describes the phase of the energy carrier's life cycle from generating input feedstocks to supplying the vehicle at the recharging or refueling station.
- WTW: Well to Wheel (Well to wake)
 - > WTW covers the entire energy carrier life cycle, combining both the WTT and TTW phases.
- Formula
 - CO2e emissions= Transport distance(km) * Freight weight(tonne) * CO2e intensity(tCO2e/tonne-km)
 - CO2 emissions= Transport distance(km) * Freight weight(tonne) * CO2 intensity(tCO2/tonne-km)

How to use "My Page"



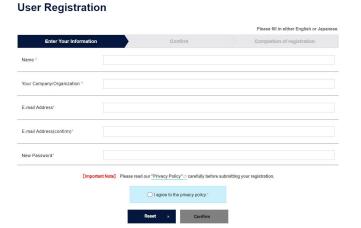
Upon user registration, "My Page" function can be utilized.





User registration

- 1. To register as an e-calculator user, click the "User Registration" button in the upper right corner of the screen.
- 2. Note: Before registering, please be sure to read and agree to our "Privacy Policy".
- 3. Upon successful registration, a confirmation message will be sent to provided e-mail address.
- 4. Upon user registration, "My Page" function can be utilized.



How to use "My Page"



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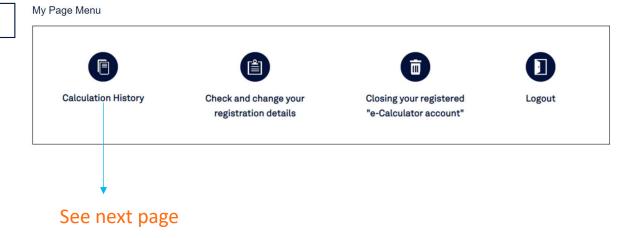


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Login

To use the "My page", please click "Login" button in the upper right corner of the screen.

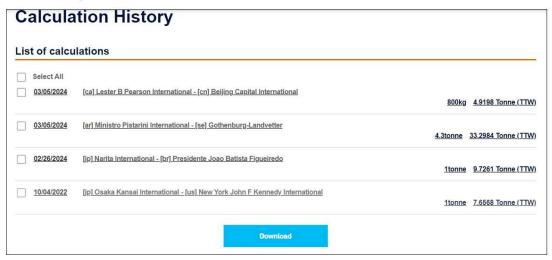
Function menu



How to use "My Page"



Calculation History



Click on a calculation result you want to review.

You can download and print them.

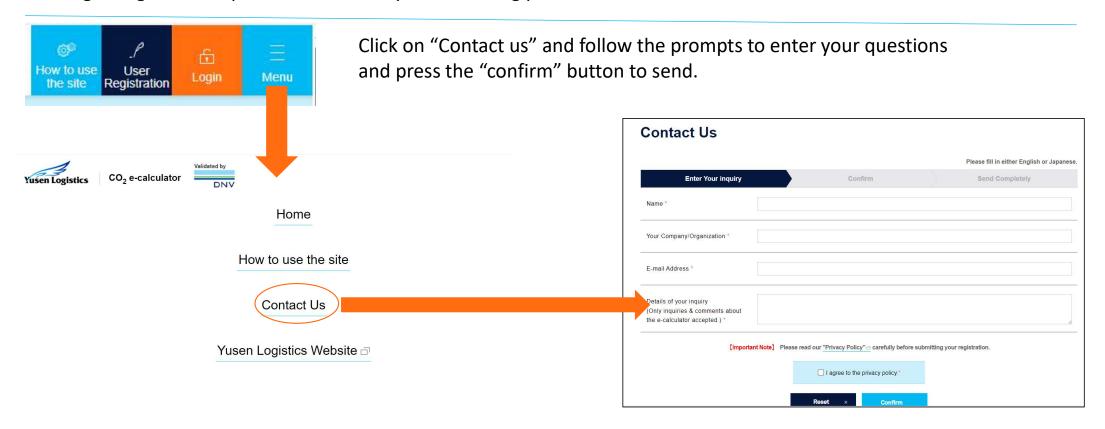
Note:

- · Calculation results are only saved when you are logged in.
- · The records can be saved upto 100.
- . When the number of stored calculation records exceeds 100, they are deleted one by one, starting with the oldest.

Contact for questions about this website



If you have any questions regarding the operation of this calculation tool or any other inquiries regarding this tool, please contact us by the following process.



"Note: This website accepts <u>only inquiries related to the e-calculator</u>.

Requests for other services, such as freight quotations, will not be processed."