ClassNK ZETA

Frequently Asked Questions

If you have any questions, please contact zeta@classnk.or.jp

Q1 General

Q1-1. **What can ClassNK ZETA ("ZETA") do?**

A. ZETA allows you to view a vessel's CO_2 emissions (total, AER, EEOI) and CII rating results on a per-vessel or per-fleet basis at any time. Simulating how CO2 emissions and CII rating results change when ships are operated at reduced speeds or when energy-saving add-ons are installed is possible. Fuel EU Maritime can also be used to manage GHG emissions and allowances for the EU Emissions Trading Scheme (EU-ETS) and GHG intensity and compliance balances.

Q1-2. **What kind of data does ZETA use?**

A. ZETA uses data from the ClassNK MRV Portal system (hereinafter referred to as "MRV Portal "*), and in addition to data submitted to MRV Portal prior to the start of ZETA use and data certified by the Society, non-certified data can also be viewed on ZETA as preliminary data. In addition to data sent to the MRV Portal prior to the start of ZETA use and data certified by the Society, non-certified data can also be viewed on ZETA as preliminary data.

* What is ClassNK MRV Portal...This system accumulates data sent by ship management companies for certification in accordance with the IMO-DCS Regulations (IMO regulations on reporting actual fuel consumption) and EU-MRV Regulations (European regulations on reporting actual fuel consumption). ZETA is linked to the data sent and stored in the MRV Portal.

Q1-3. **Who can use ZETA?**

A. The MRV Portal is available to ship management companies, shipowners, charterers, financial institutions, and all other parties involved in ship operations. Shipowners and charterers who have registered their owned and operated vessels in the MRV Portal and uploaded the data can use the data on ZETA in the same way as management companies, provided that they obtain permission to use the data from the ship management company that is, the data holder. The data can be used for financial institutions to compile data on vessels subject to the Poseidon Principle.

Q1-4. **How do I apply to a ship management company for permission to use my data?**

A. Currently, data display settings are set by NK, not by the customer, so (A) the shipowner/ charterer contacts the ship management company in advance, and the ship management company informs NK that it would like the shipowner/ charterer to display the data for this vessel, or (B) the shipowner/ charterer informs NK that it would like to see the data for this vessel, NK obtains permission from the ship management company to use the data on its behalf. (B) If the shipowner/ charterer contacts NK and asks to see the vessel's data, NK will obtain permission from the ship management company to use the data on their behalf and display it. Usually, the lead time is shorter with (A).

(A). Ship Management Company → NK
In this case, please request the e-mail address that the ship management company has registered in MRV Portal or the e-mail address registered in ZETA. Please provide us with the company name of the shipowner/charterer, the vessel, and the period for which the data was collected.

(B). Shipowner/ Charterer → NK → Ship Management Company
NK will send an email to the ship management company requesting permission. We will send the request to the e-mail address registered in the MRV Portal at this time, so we would appreciate it if ship management companies could check once again whether a valid e-mail address is registered in the MRV Portal. Ship management companies must also be registered with ZETA to display the data. Please note that it may take some time for us to process your request for permission. We appreciate your understanding.

Please download the Excel application from the URL below. For each ship, data can be selected for a period of time.
https://classnk.app.box.com/s/jp2tpy0zmrwy8xi4kqw7z5yohm03ecl7

Q1-5. **As a ship management company, we submit data to MRV Portal; now that ZETA is up and running, will data certification under IMO-DCS and EU-MRV regulations be done by ZETA instead of by MRV Portal from now on?**

A. MRV Portal will continue to perform data certification based on IMO-DCS and EU-MRV regulations even after ZETA goes live.

Q1-6. **If we use other classification societies instead of ClassNK to certify data under IMO-DCS and EU-MRV regulations, can we use ZETA for such ships?**

A. ZETA can be used even for vessels for which IMO-DCS or EU-MRV Regulations verification is conducted by vessels other than ClassNK. Please note that data should be sent via the MRV Portal.

Q1-7. **Is ZETA a cloud service?**

A. This is a cloud service. Customers can use ZETA through an Internet browser without installing any other software. Although ZETA can be used regardless of location or environment, we ask that you manage your access ID appropriately (e.g., logging out after use). In addition, since this cloud service manages data in a multiplexed manner, the service can be used continuously by automatically switching to a server in another region in the event of a failure due to a disaster, etc.

Q2 Function

Q2-1. **What features does ZETA have?**

A. ZETA has six major functions: Emission Monitoring, EU-ETS, FuelEU Maritime, CII Simulator, CII Fleet Simulator, and CII Benchmark Viewer.

Q2-2. **What is the Emission Monitoring function?**

A. This function allows you to check the CO_2 emissions and CII rating results for each voyage on a per-vessel or per-fleet basis at any time. In addition to the current CO_2 emissions and CII rating results, the annual CO_2 emissions and CII rating results can also be projected, allowing you to consider necessary measures to reduce CO2 emissions.

Q2-3. **What is the EU-ETS function?**

A. This function displays GHG emissions for each voyage subject to the EU-ETS and manages emission quotas for individual vessels and fleets. Displayed results can be output in PDF or CSV format.

Q2-4. **What is the FuelEU Maritime function?**

A. You can check the GHG intensity, banking, bolting, pooling estimates, and expected fines for each vessel and fleet covered by FuelEU Maritime.

Q2-5. **What is the CII Simulator function?**

A. This function allows you to simulate how future CO2 emissions and CII rating results will change if slow steaming and energy-saving add-ons are implemented ship-by-ship. Various simulations enable the study of measures to reduce CO2

Q2-6. **What is the CII Fleet Simulator function?**

A. This function allows fleet-wide simulation of how future CO_2 emissions and CII rating results will change if slow steaming and energy-saving add-ons are added. Various simulations enable the study of measures to reduce CO2

Q2-7.   What is the CII Benchmark Viewer function?

A.   The IMO-DCS data, which has been verified by the Society, is combined with publicly available data for all EU-MRV vessels and statistically processed by the Society, making it possible to conduct a broad-based relative evaluation of CII rating results without identifying individual vessels.

Q2-8.   How often is ZETA updated (upgraded)? Do you plan to add new features in the future?
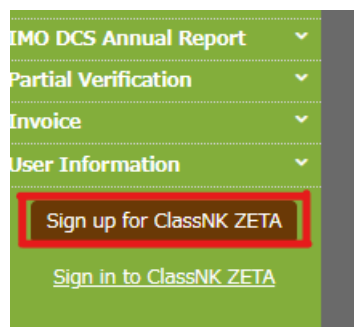
A.   We plan to modify ZETA regularly and implement new features in stages based on your requests and needs.

Q3 How to use

Q3-1.   How do I start using ZETA?

A.   For ship management companies using MRV Portal, a button "Sign up for ClassNK ZETA" will appear under the MRV Portal menu if you are not using ZETA. You can sign up for ZETA by clicking this button.

B.

For shipowners and charterers not using MRV Portal, to start using ZETA, Click here After completing the application, you will receive an initial password to use ZETA at the e-mail address you provide. After completing the application, we will issue an initial ZETA password to your email address.
It takes about 2~3 days to link MRV Portal and ZETA. If the vessel is not displayed after 3 days from receipt of the email, please contact us at zeta@classnk.or.jp .

Q3-2. **Are IDs and passwords for use issued on a company-by-company basis?**

    A.   IDs and passwords are set for each individual, but multiple users can use the system by registering a representative (an individual name is required, but an e-mail address can be registered as a departmental representative address, etc.) and then having the representative register sub-users.

Q3-3. **How many sub-users can be registered? Can they be connected at the same time?**

    A.   There is no limit to the number of sub-users registered. Each sub-user can connect at the same time.

Q3-4. **Is it necessary to report the suspension of use if a vessel under ZETA use undergoes a change of management/sale/breaking up, etc.?**

    A.   You must contact us to stop using the service for each vessel. Please note that you will still be able to view the data you used during the period of use, even after the suspension.

Q3-5. **I am currently using the MRV Portal; can I also use ZETA with the ID and password I use for the MRV Portal (ID and password for ClassNK Web Service Portal)?**

    A.   The ID and password used for the MRV Portal cannot be used for ZETA, and a ZETA-specific ID and password are required. After you complete your ZETA application, we will issue a password to your registered e-mail address.

Q3-6. **I am currently using ZETA. How do I apply to add or change sub-users?**

    A.   To add or change sub-users, please fill out the sub-user list here and send it to zeta@classnk.or.jp

Q4 Fees

Q4-1. **How much does it cost to use ZETA?**

A. ZETA provides "Basic Functions" and "Advanced Functions".
- Basic Functions
  The fee will be announced separately after January 2025.

- Advanced features."
  - ➤ FuelEU Maritime functionality
  The service will be free of charge until December 2024; fees for use from January 2025 onward will be announced separately.

Q4-2. **Can I stop using ZETA during a service? If so, will the fee be refunded?**

A. ZETA users may terminate this service by giving the Society one month's notice. However, please note that fees already paid will not be refunded. (You will be asked to agree to the Terms of Use when you apply for the service.)

Q5 Data contents, handling, and error-checking methods

Q5-1. **Is the data displayed verified data?**

A. ZETA is calculated and displayed based on data uploaded to the MRV Portal. Please note that the calculations include data that has not been verified. A function to determine whether the displayed voyage has been verified is also under development.

Q5-2. **What is the accuracy of the data displayed?**

A. ZETA uses the data you send to the MRV Portal, and we cannot give you a general answer because it depends on the accuracy of the data you send. Please check the data on the MRV Portal.

Q5-3. **Can I download the data displayed?**

A. Data displayed in ZETA can be downloaded in PDF or CSV format.

Q5-4. **Are GHG emissions (CO2, CH4, N2O) displayed, or can NOx and SOx be calculated?**

A. The GHG emissions displayed in the "FuelEU Maritime" function are CO2, CH4, and N2O.
The emissions (EUA) displayed in the "EU-ETS" function include GHG emissions (CO2, CH4, and N2O) from 2026 data, and until then, only CO2.
The emissions displayed in the "Emission Monitoring", "CII Simulator", "CII Fleet Simulator" and "CII Benchmark Viewer" functions are based on the IMO-DCS/CII regulations and only display CO2 emissions.
At present, it is not possible to calculate NOx and SOx emissions on ZETA, as these depend on the operating conditions of the engine and the sulfur content of the fuel oil.

Q5-5. **I have already submitted data to the MRV Portal. Do I need to submit it again if I want to use ZETA?**

A. If you have already submitted data to the MRV Portal, you do not need to submit it again to ZETA.

Q5-6. **Will I be notified on ZETA if there is an excess or shortage of data?**

A. The MRV Portal has a function to notify ZETA of errors that occur when duplicate data or data that requires correction is uploaded to the MRV Portal. The data is then locked. This is to prevent accidental modification of the validated data and to prevent additional data submissions from updating the validated values. Therefore, if data is submitted for a locked period, the data in the MRV Portal will not be updated but will be reflected in ZETA, resulting in a "value mismatch" with ZETA and an error notification in ZETA. In this case, correcting the data in MRV Portal will resolve the error.

Q5-7. **We are a vendor that provides services using CO$_2$ emissions data from ships; can you provide services linked to ZETA?**

A. If you wish to offer your services on ZETA, please contact us at zeta@classnk.or.jp to discuss your needs on a case-by-case basis.

Q5-8. **About data displaying problems**
A. Please check the ZETA User Manual or the MRV Portal User Guide. If the problem is not resolved, please contact zeta@classnk.or.jp

- EEOI values are not displayed in the Emission Monitoring menu.
- A. In addition to CO2 emissions, the weight of cargo and the sailing distance are required for EEOI calculations, so please make sure that the cargo weight and sailing distance are entered in MRV Portal.

- The management vessel does not appear in ZETA.

A. Since ZETA is based on data submitted to MRV Portal, please check if you have submitted your voyage data to MRV Portal; if not, please submit your data to MRV Portal.

Q5-9. **The displayed CO2 emissions are low.**

A. Please check the fuel settings in MRV Portal.
The fuel setting points differ depending on whether the vessel is subject to EU-MRV. For details, please refer to this MRV Portal User Guide. In the case of ships certified by MRV Portal, CO2 emissions are calculated based on the fuel selected in the Monitoring Plan in advance. If you send back the fuel, the fuel setting will be restored, so please resubmit your report.

Q5-10. **EU voyages are not displayed in the EU-ETS function.**

A. In the EU-ETS function, only voyages subject to EU-MRV/ETS are displayed, and other voyages are displayed in "EDIT EXPENSE SPLIT". SPLIT", please check if the EU voyages are listed in the "EDIT EXPENSE SPLIT".
In addition, to determine which voyages are subject to the EU-ETS in ZETA, you need to select two items from the MRV Portal's Monitoring >>> Voyage data.
To determine if the vessel is a port of call, please select whether or not cargo handling is performed in the "L/U" column. Select "Y" if cargo handling has been performed or "N" if cargo handling has not been performed. We also have a function that automatically inputs the L/U field based on the cargo volume in the Voyage data you submitted. Please use this function as appropriate.
If the port is an EU port, please select "EU" in the EU/UK field to determine whether it is in the EU or not.
If the problem is not resolved, please contact zeta@classnk.or.jp

MRV Portal L/U and EU/UK selection screen

* Voyages subject to the EU-ETS are...
    The EU-ETS applies to GHG emissions on the following voyages
        ● 50% of emissions from vessels making voyages between ports of call under the jurisdiction of an EEA Member State and ports of call outside the jurisdiction of an EEA Member State
        ● 100% of emissions from vessels making voyages between ports of call under the jurisdiction of an EEA Member State and ports of call under the jurisdiction of an EEA Member State
        ● 100% of emissions from vessels in ports of call under the jurisdiction of EEA Member States
    Port of call here refers to a port of call for the purpose of unloading cargo, boarding or disembarking passengers, or changing crews on an offshore vessel. (Ref: TEC-1299)
    (*Overseas territories are not subject to the EU-ETS until December 2030. However, the EU-MRV Regulation requires reporting emissions and rainfall even for voyages between overseas territories; please select "EU" for overseas territories when you have your Emission Report verified by the Society).

Q5-11.   **Vessels that are already out of my control are displayed.**

A.   Information on vessels no longer under our management will still be displayed for the periods during which they submitted data to MRV Portal within our management period. We are developing a function allowing you to select which vessels to display.

Q5-12.   **How long does it take for data to be reflected in ZETA?**

A.   It usually takes 2-3 days after updating MRV Portal to be reflected in ZETA.