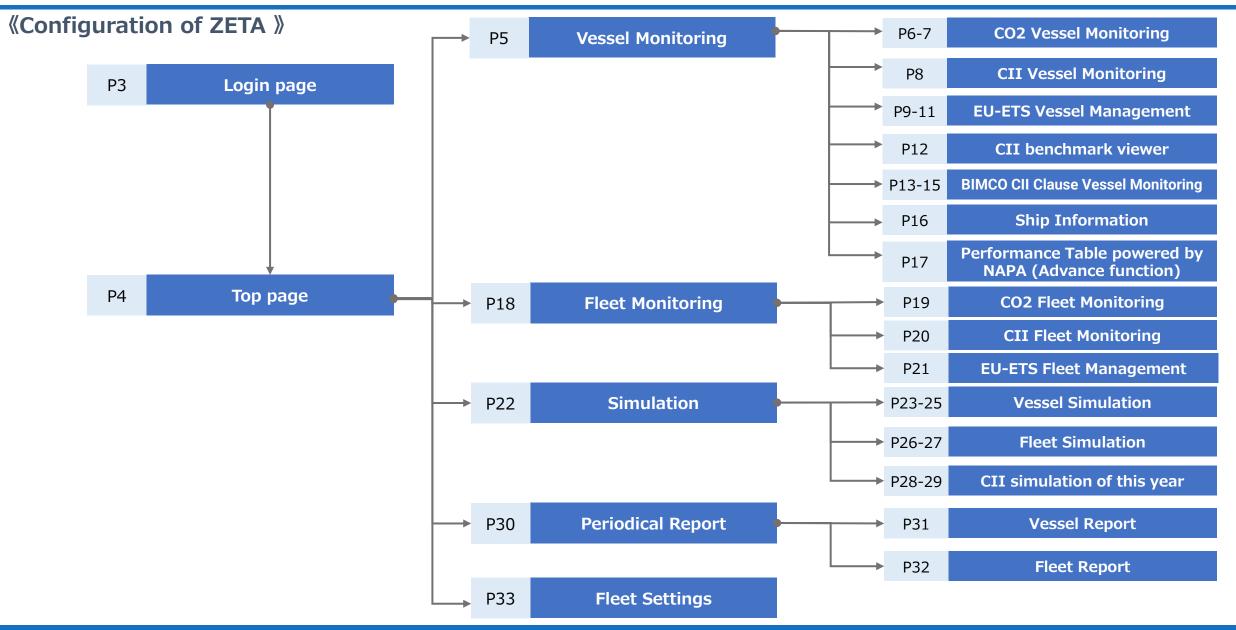


# ClassNK ZETA User manual

Ver 1.5.0

#### **ZETA** user manual contents

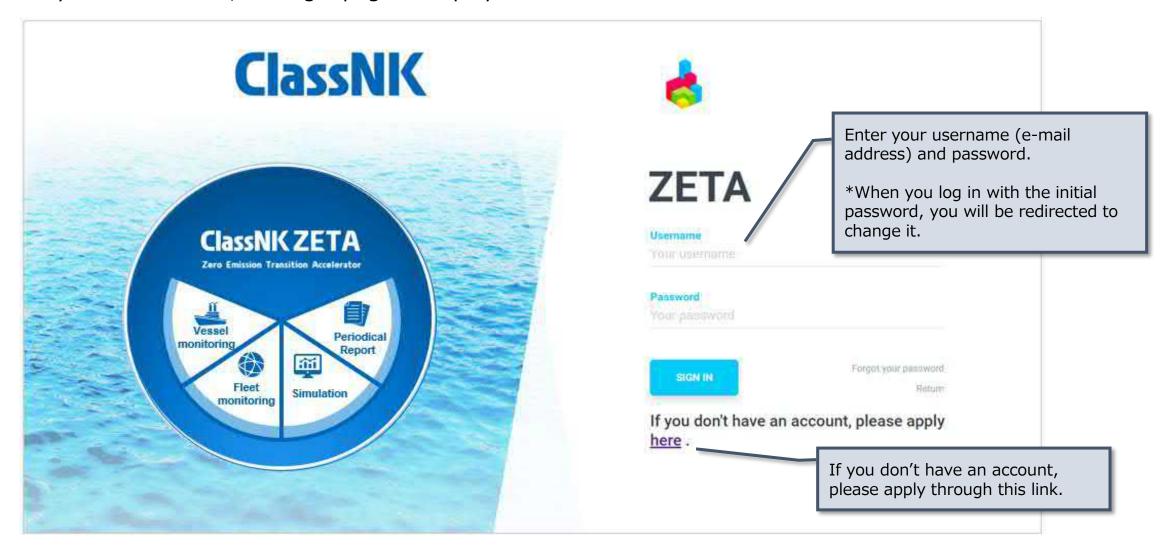




#### Login page



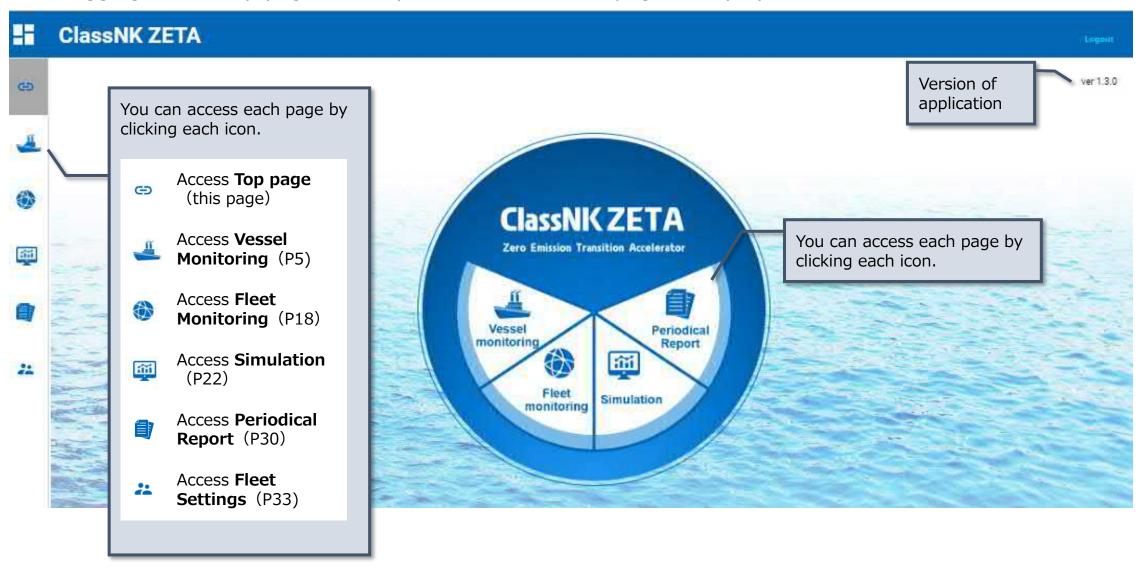
When you access ZETA, the login page is displayed.



### Top page



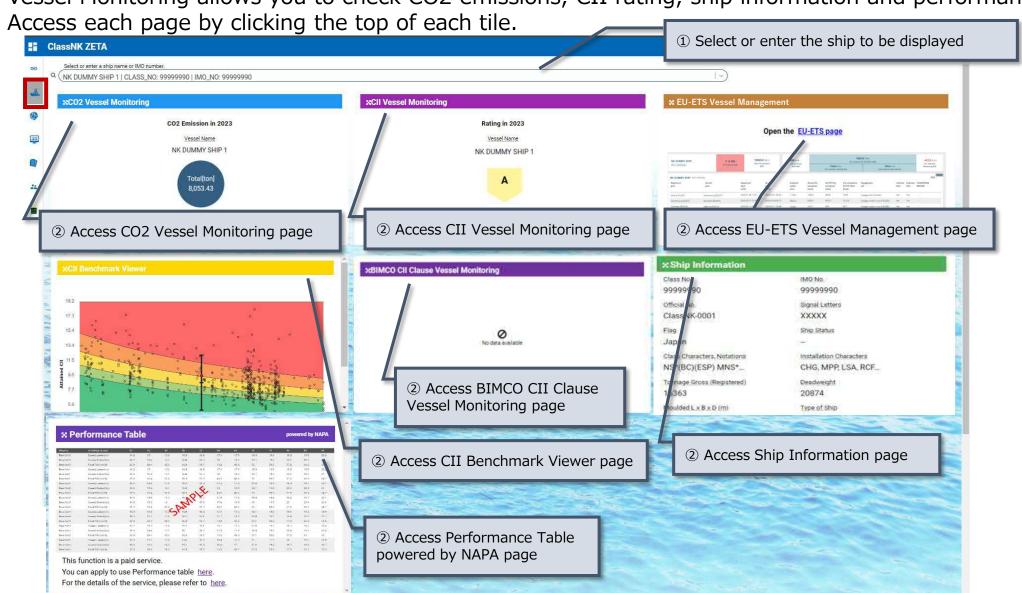
After logging in, the top page where you can access each page is displayed.



### **Vessel Monitoring**



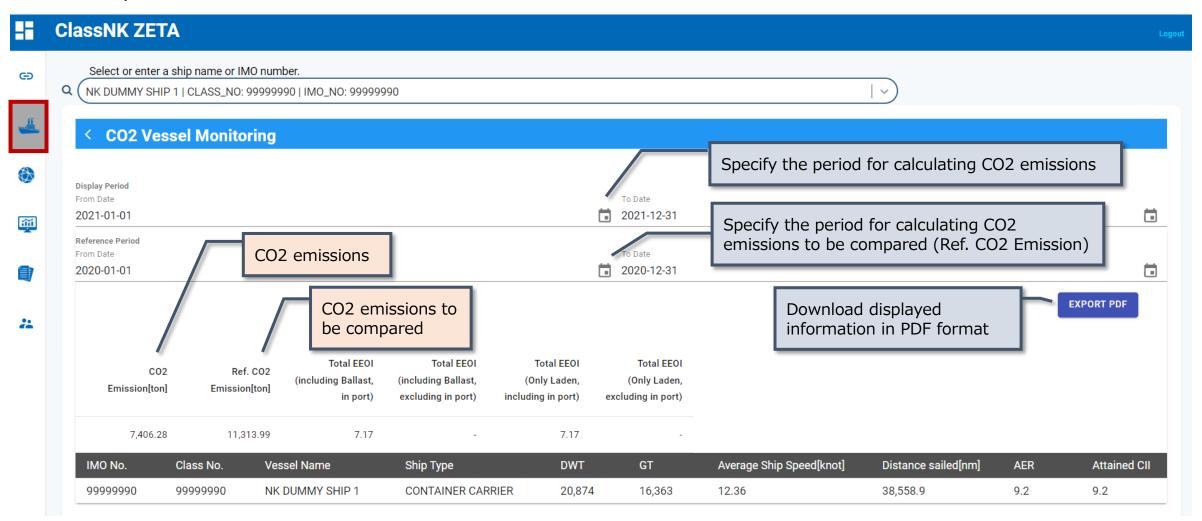
Vessel Monitoring allows you to check CO2 emissions, CII rating, ship information and performance for each ship.



## Vessel Monitoring: CO2 Vessel Monitoring (1)

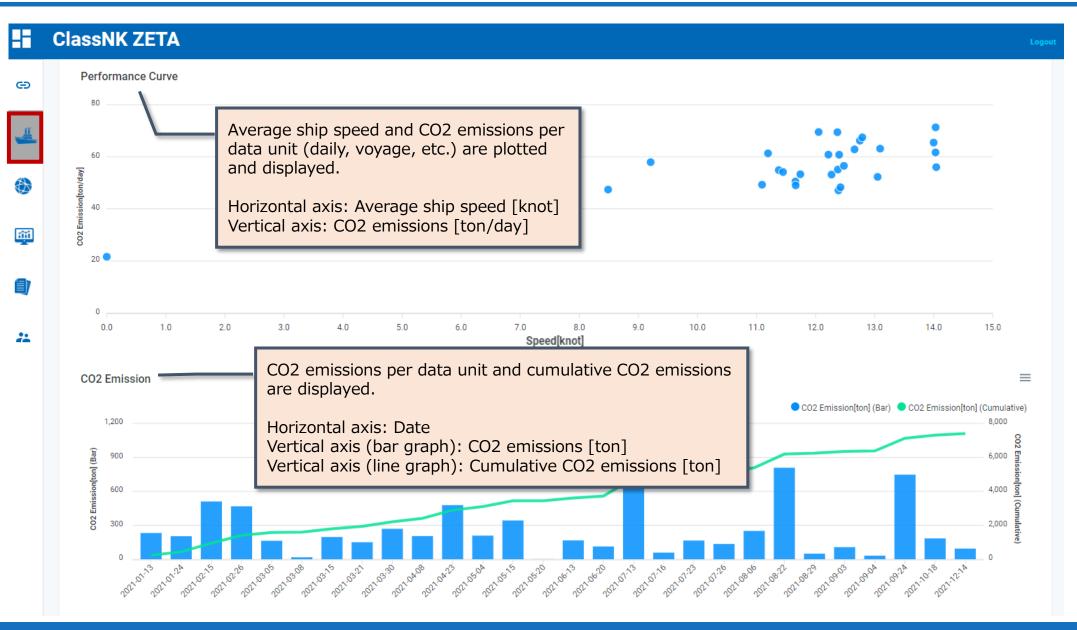


 CO2 Vessel Monitoring allows you to check CO2 emission details and compare them with past emissions for each ship.



### **Vessel Monitoring**: CO2 Vessel Monitoring (2)

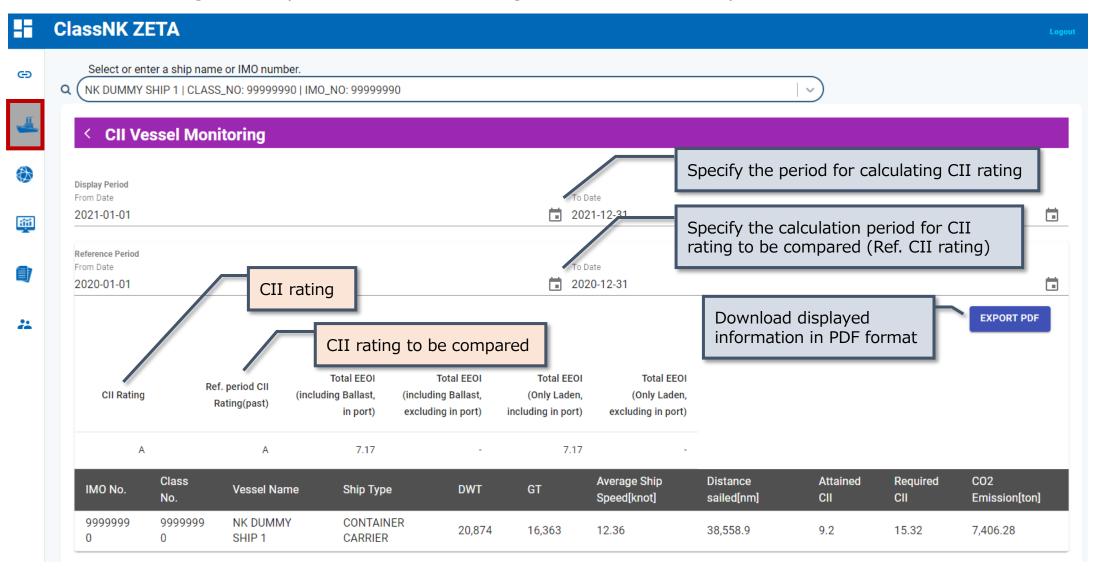




# Vessel Monitoring: CII Vessel Monitoring



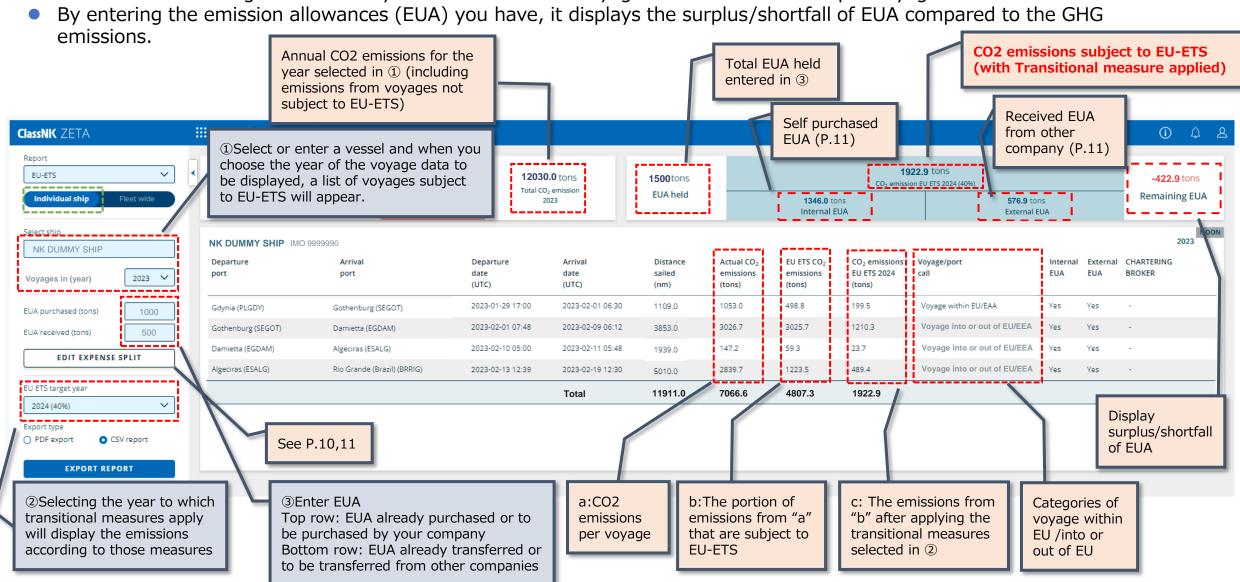
CII Vessel Monitoring allows you to check CII rating details for each ship.



#### **Vessel Monitoring**: EU-ETS Vessel Management (1)



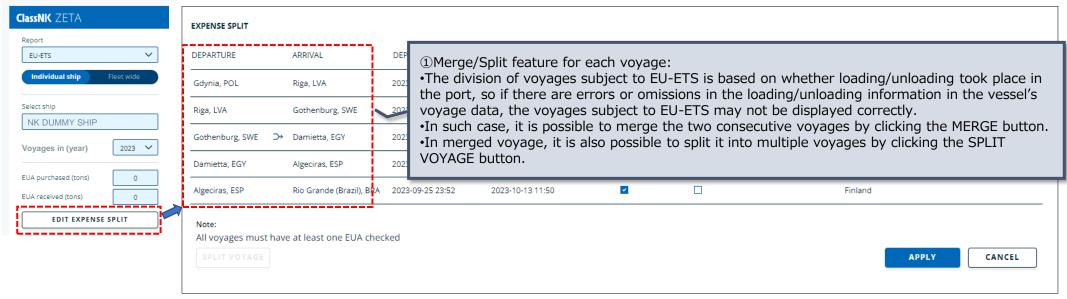
EU-ETS Vessel Management allows you to check EU-ETS voyages and CO2 emissions per voyage for individual vessels.



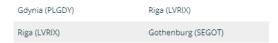
#### **Vessel Monitoring**: EU-ETS Vessel Management (2)



- In the EDIT EXPENSE SPLIT page, the following features are available:
- ①Merge/Split feature for each voyage (see this page)
- ②Registration feature for parties responsible for EUA, charterers, administering authority and management companies for each voyage (see next page)



Example: A voyage from Gdynia to Gothenburg is a single voyage, but it is displayed as two separate voyages.



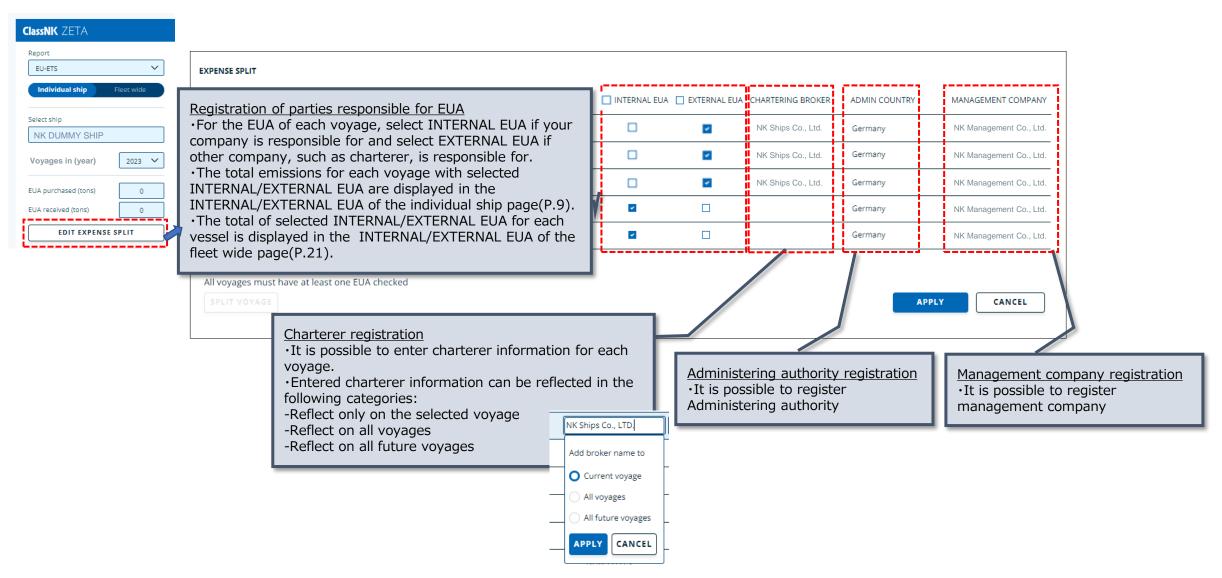
Users can merge two voyages into one by clicking the MERGE button that appears between the two voyages you want to merge.



#### **Vessel Monitoring**: EU-ETS Vessel Management (3)



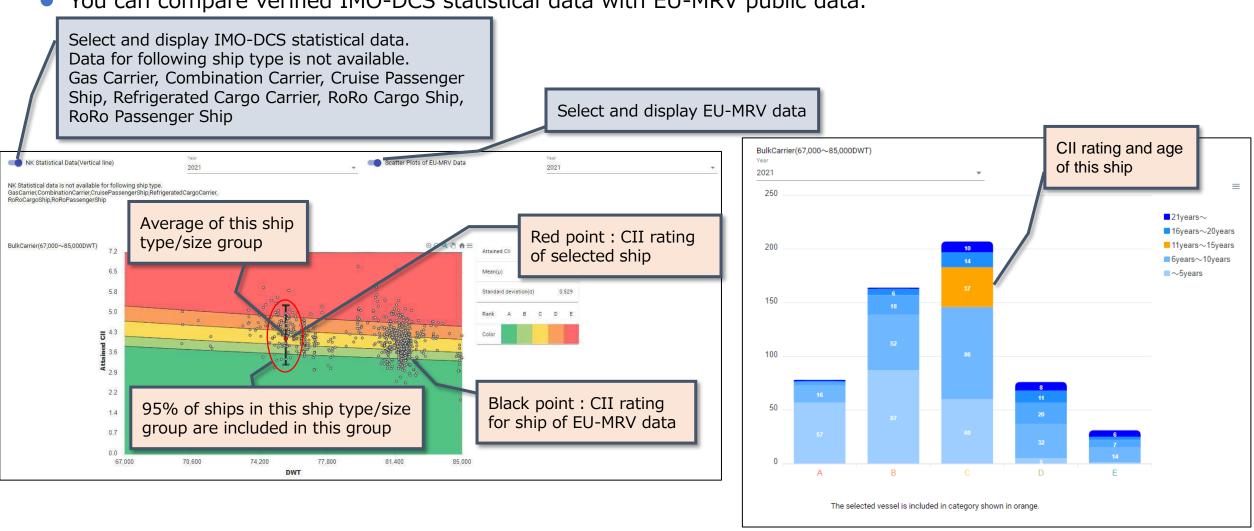
② Registration feature for parties responsible for EUA, charterers, administering authority and management companies for each voyage



## Vessel Monitoring: CII benchmark viewer



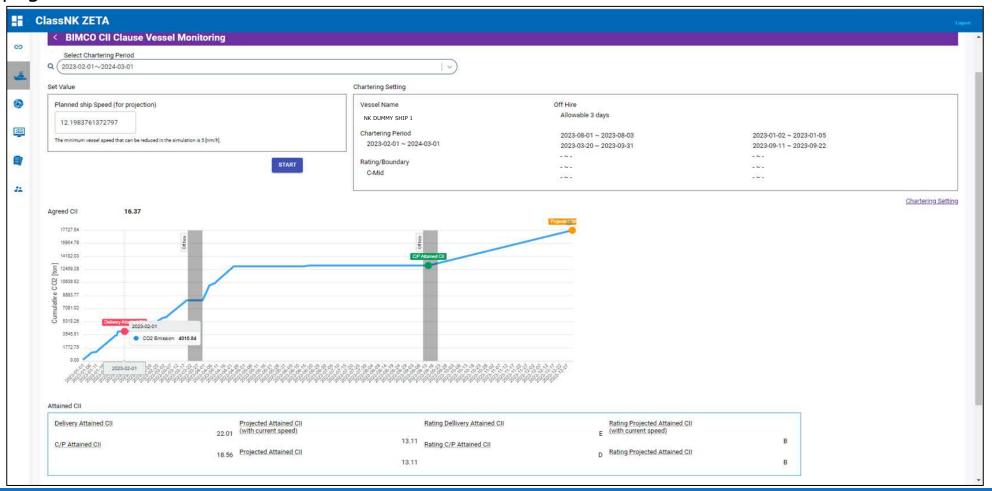
- CII benchmark viewer allows you to compare the CII ratings of each vessel with other vessels by "ship type and size" and by "ship age".
- You can compare verified IMO-DCS statistical data with EU-MRV public data.



#### **Vessel Monitoring**: BIMCO CII Clause Vessel Monitoring (1)



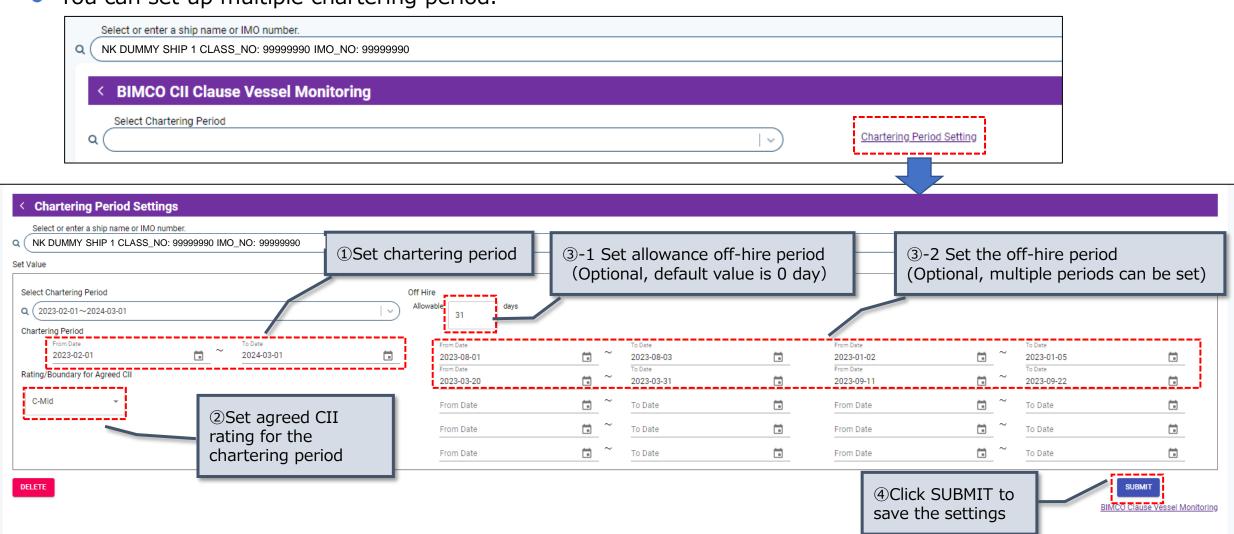
- BIMCO CII Clause Vessel Monitoring allows you to check the performance of ship in terms of CII during charter period. This includes the C/P Attained CII, Delivery Attained CII and Projected Attained CII, as defined in BIMCO's "CII OPERATIONS CLAUSE FOR TIME CHARTER PARTIES".
- To start monitoring, you need to set up chartering period, etc. for each vessel. For setup instructions, see
  the next pages.



#### **Vessel Monitoring**: BIMCO CII Clause Vessel Monitoring (2)



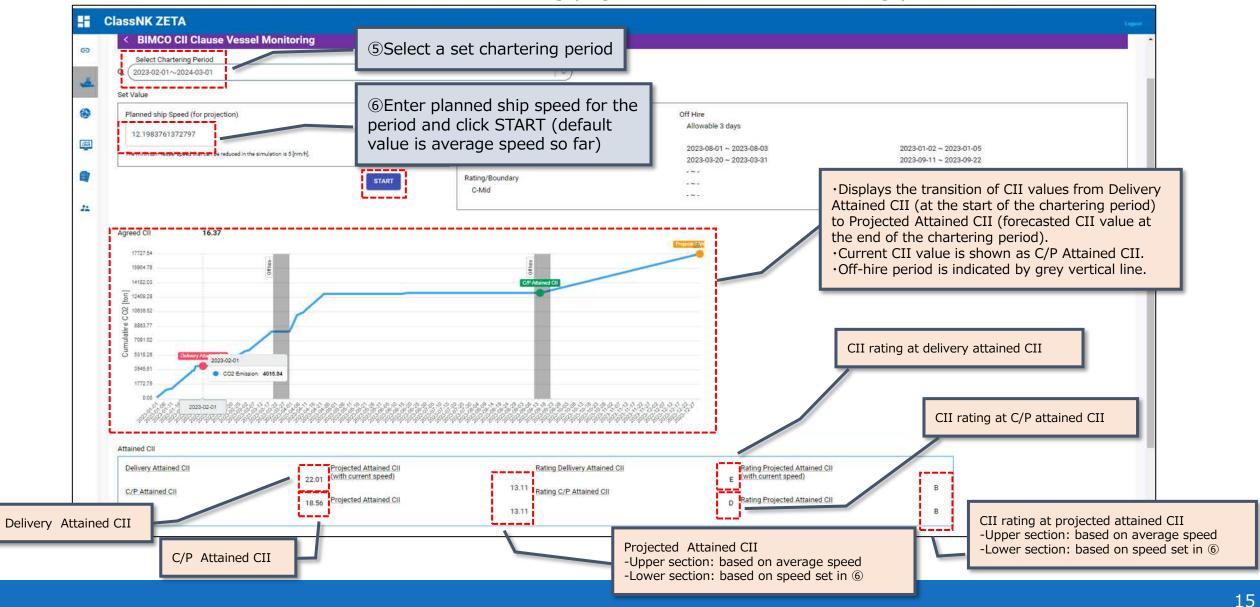
- In the Chartering Period Settings, you need to set up ①Chartering period, ②Agreed CII rating for the chartering period, ③Allowance for off-hire period.
- You can set up multiple chartering period.



#### **Vessel Monitoring**: BIMCO CII Clause Vessel Monitoring (3)



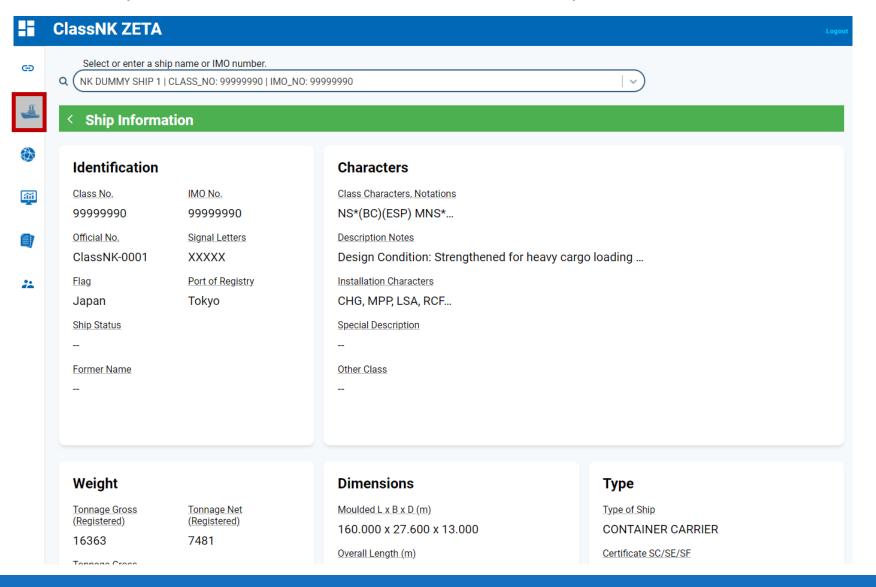
Go back to BIMCO CII Clause Vessel Monitoring page and select the chartering period to see the CII values.



### Vessel Monitoring: Ship Information



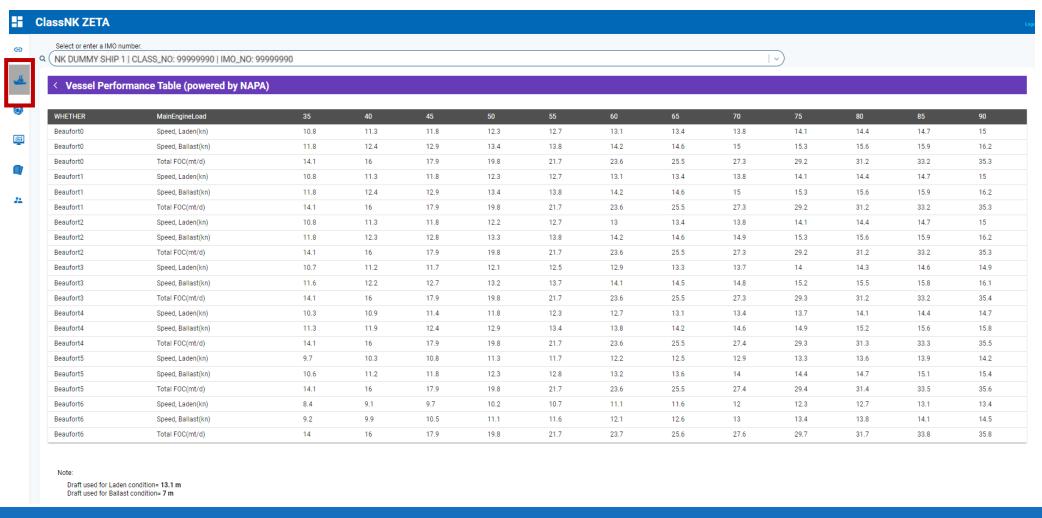
Ship Information allows you to check basic information for each ship.



#### **Vessel Monitoring**: Performance Table powered by NAPA



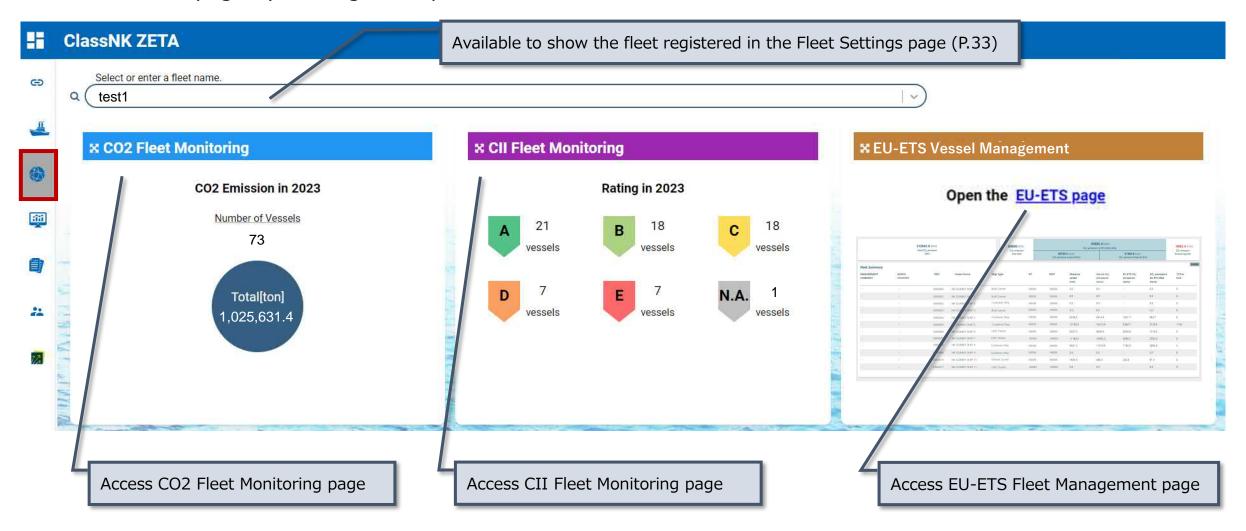
- Performance Table powered by NAPA provides up-to-date information on the vessel's current performance calculated by NAPA and shows the information of ship speed and fuel consumption for each engine load under different weather and sea conditions and loading conditions.
- This feature is a paid service and requires an application via dedicated form after logging in to ClassNK ZETA.



### **Fleet Monitoring**



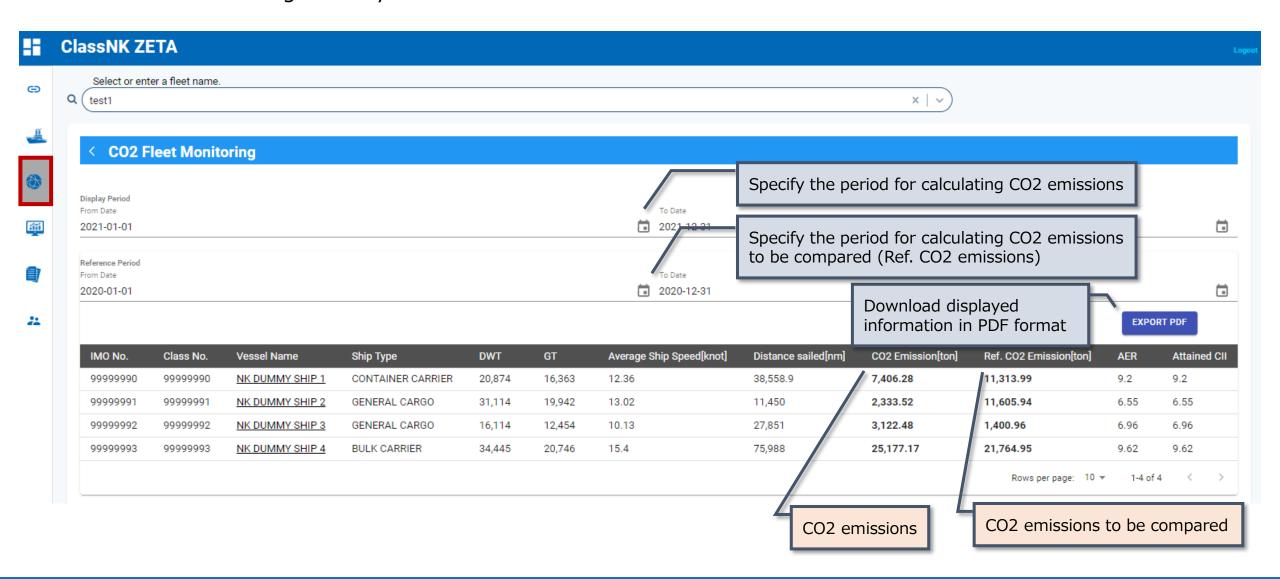
- Fleet Monitoring allows you to check CO2 emissions, CII rating and CII calculation for each fleet.
- Access each page by clicking the top of each tile.



# Fleet Monitoring: CO2 Fleet Monitoring



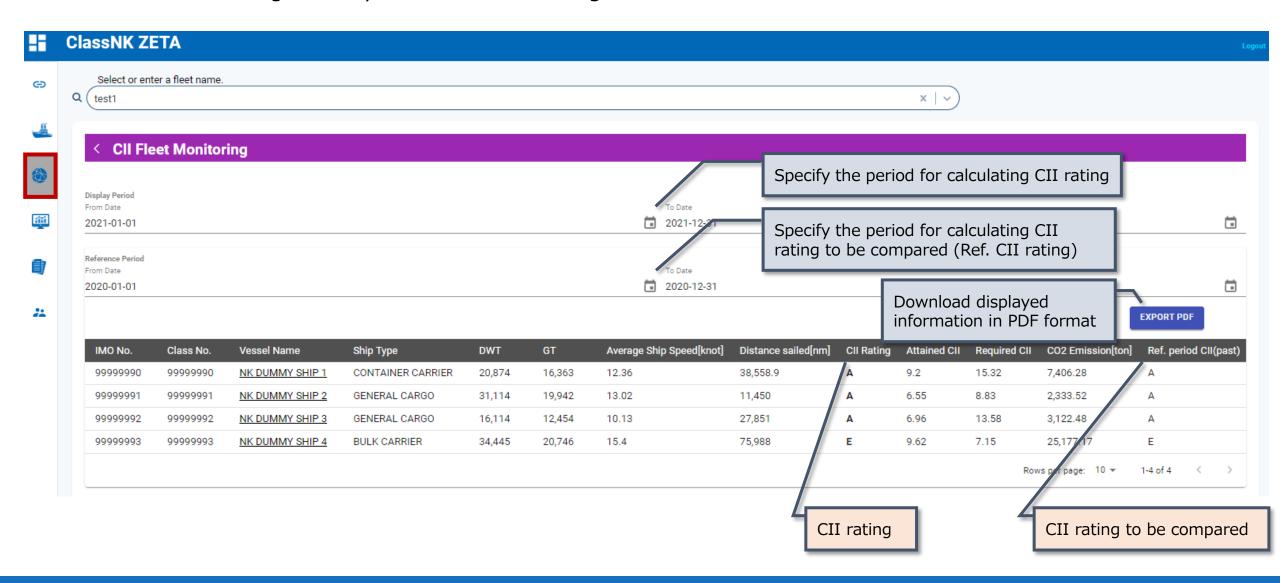
CO2 Fleet Monitoring allows you to check CO2 emission details for each fleet.



# Fleet Monitoring: CII Fleet Monitoring



CII Fleet Monitoring allows you to check CII rating details for each fleet.



#### Fleet Monitoring: EU-ETS Fleet Management

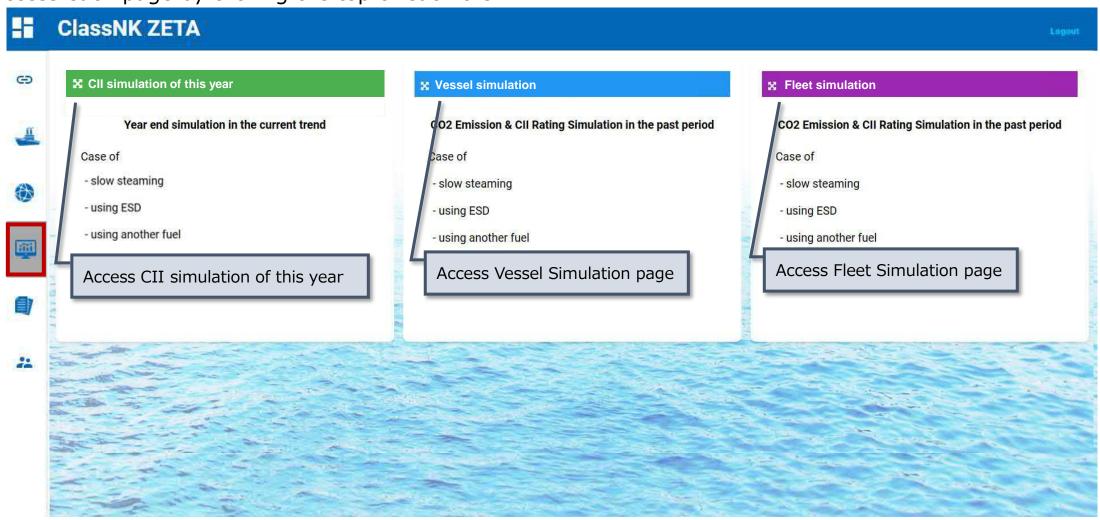


 EU-ETS Fleet Management allows you to check CO2 emissions subject to EU-ETS for entire fleet, including the surplus/shortfall of EUA for the emissions. Total entered owned CO2 emissions EUA for each vessel (Transitional measure applied) Self purchased Received EUA from Regulatory Reporting ClassNK ZETA EUA other company 93882.4 tons EU-ETS 312941.6 tons 84000tons -9882.4 tons CO<sub>2</sub> emission EU ETS 2024 (40%) Total CO<sub>2</sub> emission **EUA** held Remaining EUA 56329.4 tons 37552.9 tons Internal EUA External EUA \_\_\_\_\_\_\_ Select ship (multiple selection) Fleet Summary All Ships selected  $\vee$ MANAGEMENT ADMIN IMO GT CO<sub>2</sub> emissions Vessel Name Ship Type DWT Distance Actual CO<sub>2</sub> EU ETS CO<sub>2</sub> TOTAL COMPANY COUNTRY sailed emissions EU ETS 2024 EUA Voyages in (year) 2023 💙 emissions (nm) (tons) (tons) (tons) EU ETS target year **Bulk Carrier** 0.0 0.0 0.0 0 9999990 NK DUMMY SHIP 99999 88888  $\vee$ 2024 (40%) 0.0 0.0 0.0 0 99999 88888 9999991 NK DUMMY SHIP 1 **Bulk Carrier** Export type Container Ship 0.0 0.0 0.0 0 9999992 NK DUMMY SHIP 2 99999 88888 O PDF export CSV report 99999 88888 NK DUMMY SHIP 3 **Bulk Carrier** 0.0 0.0 0.0 0 **EXPORT REPORT** Container Ship 99999 88888 4209.0 3414.5 1631.7 652.7 0 9999994 NK DUMMY SHIP 4 10150.0 10910.9 5324.7 2129.9 1100 Container Ship 99999 88888 9999995 NK DUMMY SHIP 5 LNG Tanker 99999 88888 5027.0 6090.6 2540.8 9999996 NK DUMMY SHIP 6 Show surplus/shortfall LNG Tanker 9999997 NK DUMMY SHIP 7 99999 88888 11183.0 19302.2 6956.2 of EUA 9999998 NK DUMMY SHIP 8 Container Ship 9631.0 11810.9 7136.3 99999 88888 99999 88888 0.0 0 9999999 NK DUMMY SHIP 9 0.0 0.0 Container Ship 202.6 81.0 9999910 NK DUMMY SHIP 10 Vehicle Carrier 99999 88888 1604.0 385.0 9999911 NK DUMMY SHIP 11 99999 88888 0.0 0.0 0.0 0 LNG Tanker

#### **Simulation**



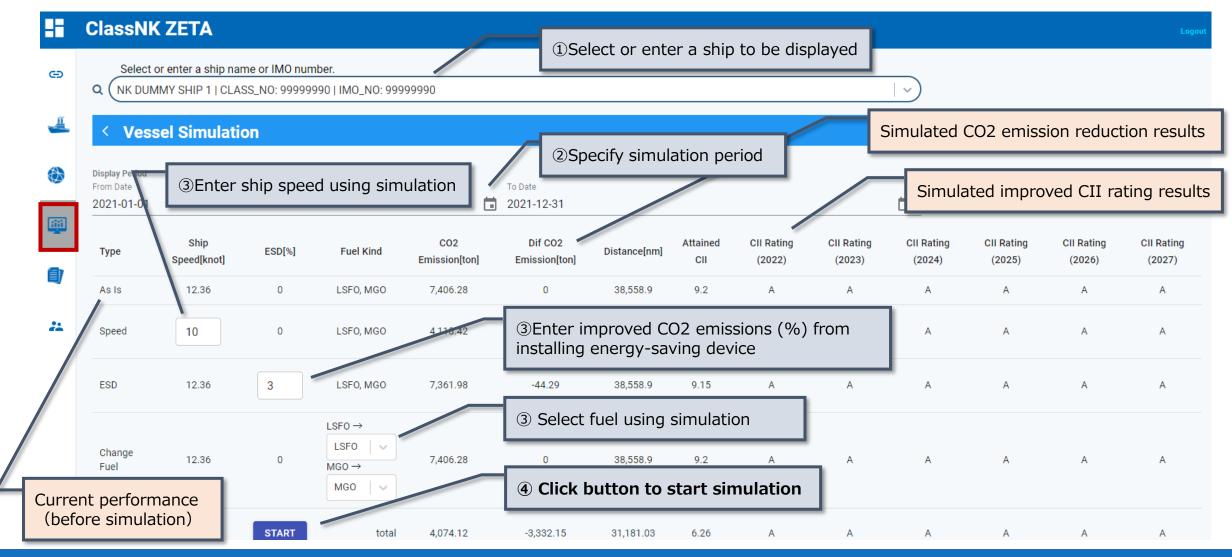
- Simulation allows you to simulate CO2 emissions and CII rating when changing ship speed, installing energysaving device or switching fuels.
- Access each page by clicking the top of each tile.



### **Simulation**: Vessel Simulation (1)

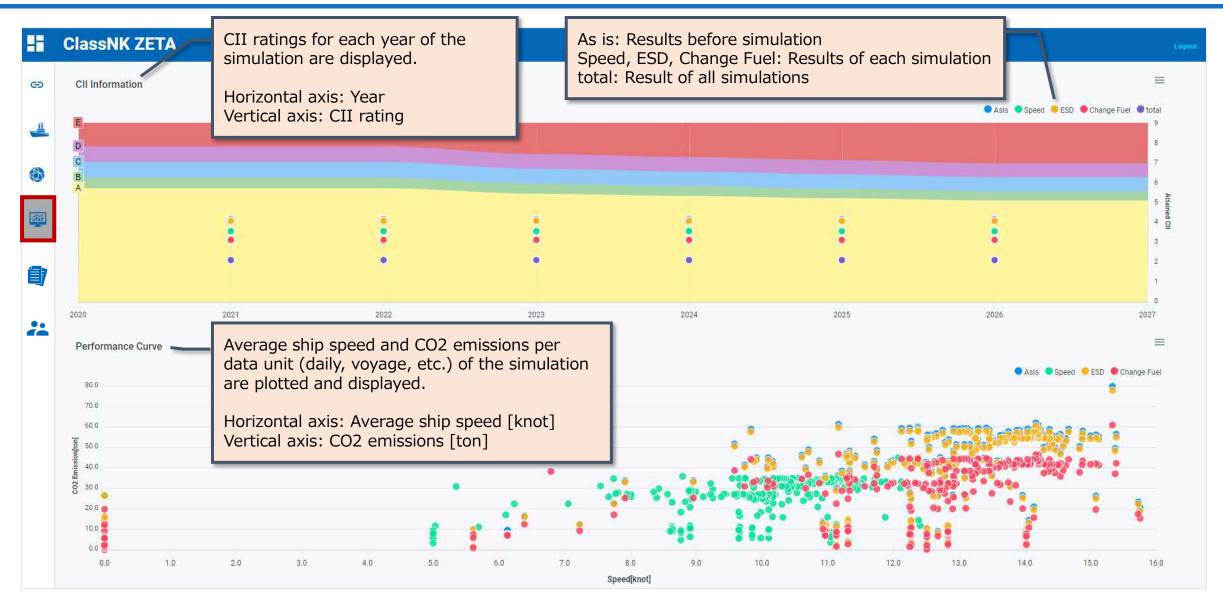


 Vessel Simulation allows you to simulate the improvement of CO2 emissions and CII rating for each vessel by changing ship speed etc. for actual voyage data before the simulation.



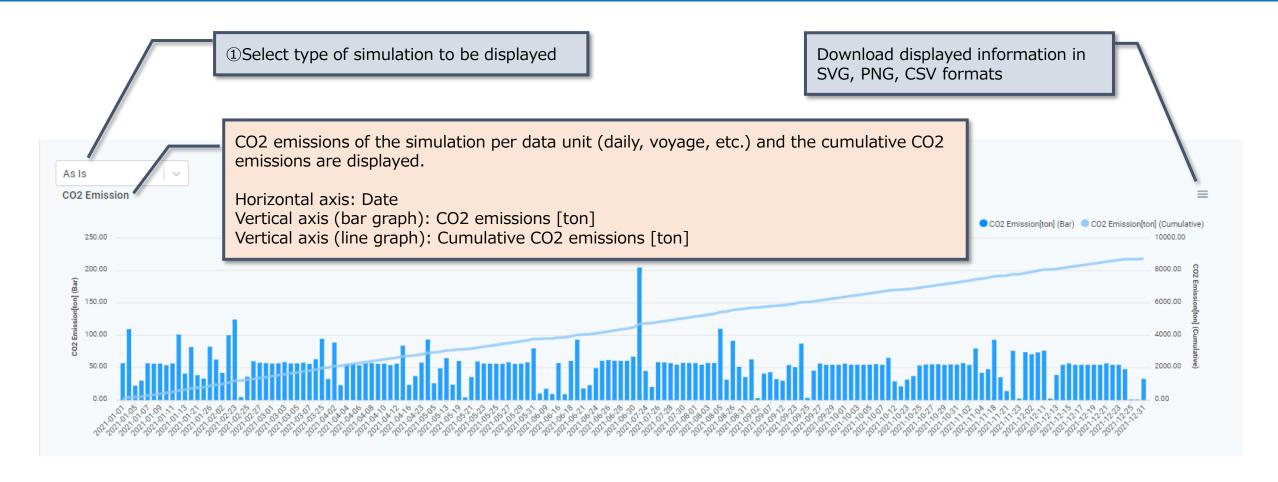
## **Simulation**: Vessel Simulation (2)





# **Simulation**: Vessel Simulation (3)

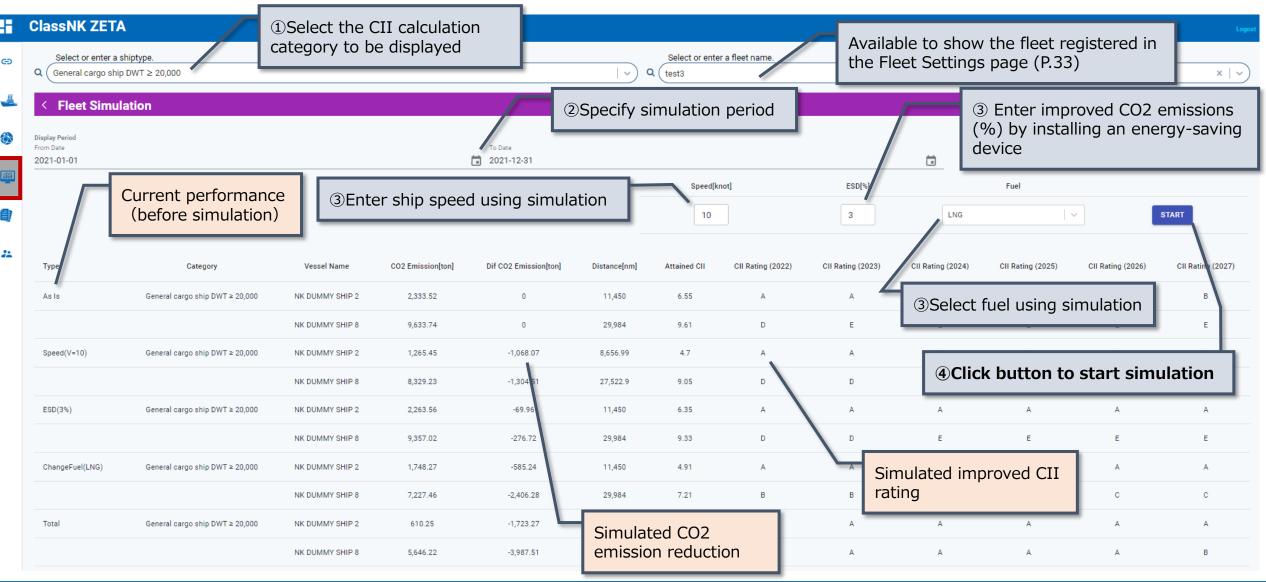




# **Simulation**: Fleet Simulation (1)

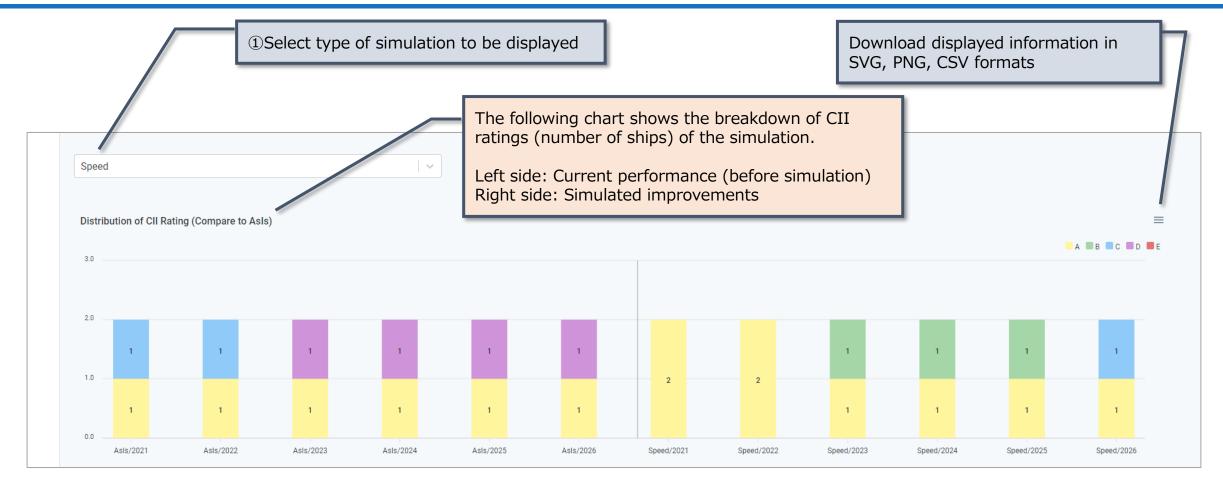


Fleet Simulation allows you to simulate CO2 emissions and CII rating for each fleet.



# **Simulation**: Fleet Simulation (2)

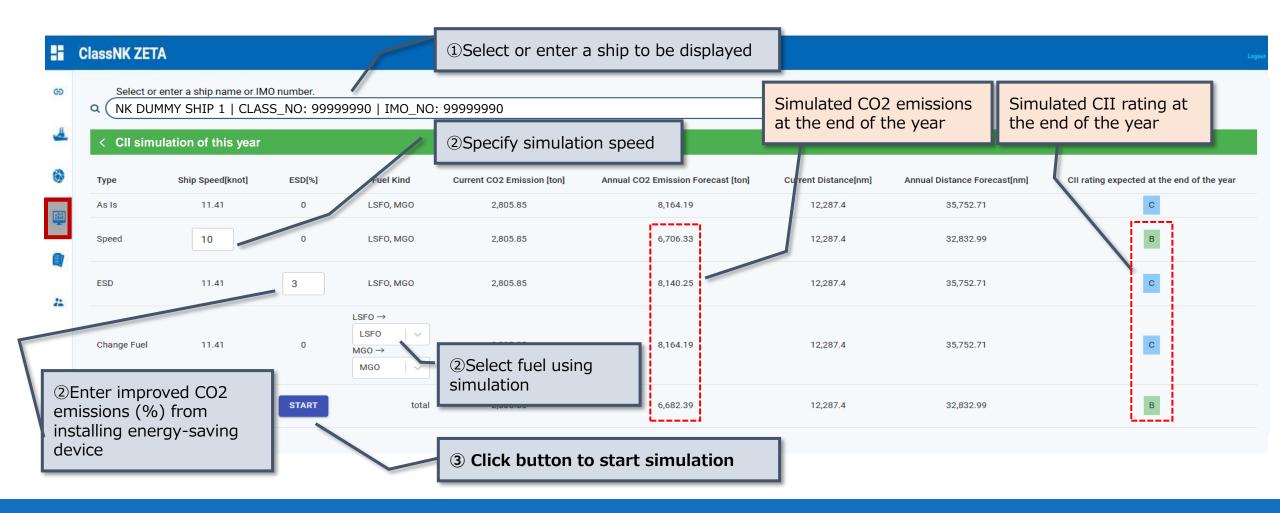




#### **Simulation**: CII simulation of this year(1)

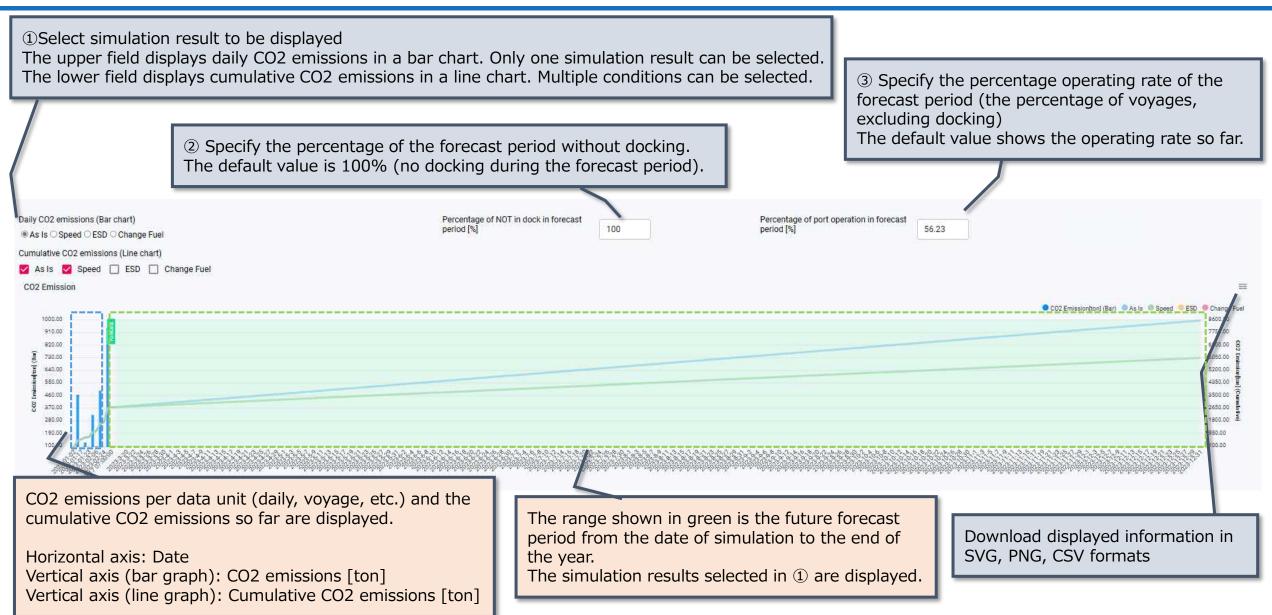


• CII simulation of this year allows you to simulate how the CII rating and CO2 emission of each ship will change at the end of the year if the ship's speed and other factors are changed from the present time.



#### **Simulation**: CII simulation of this year(2)

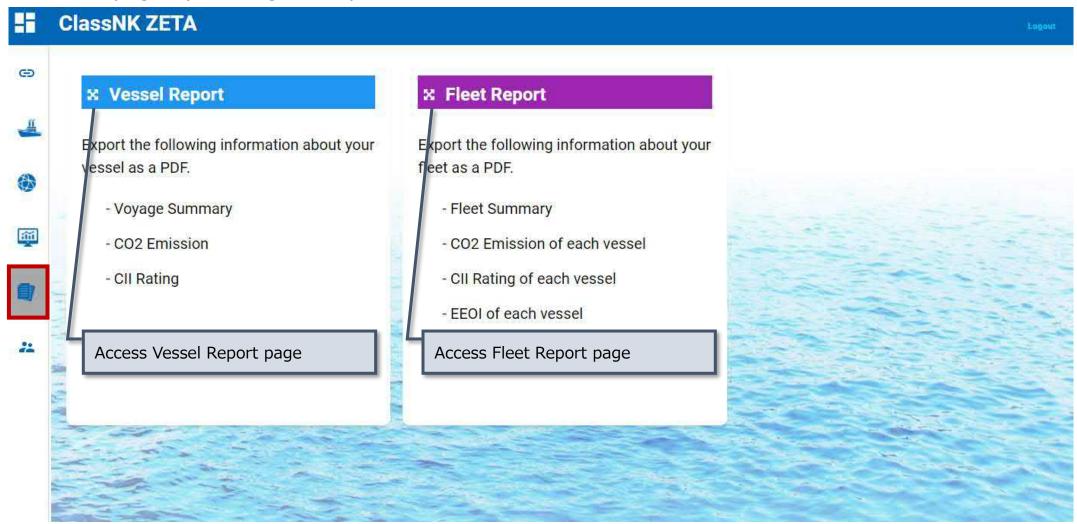




### **Periodical Report**



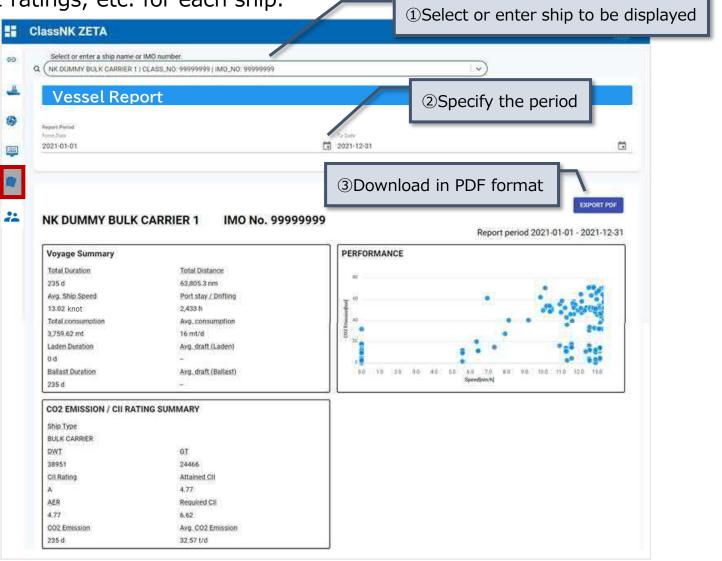
- Periodical Report allows you to output a report on CO2 emissions, CII rating and EEOI, etc. for each ship/fleet in PDF format.
- Access each page by clicking the top of each tile.



### Periodical Report: Vessel Report



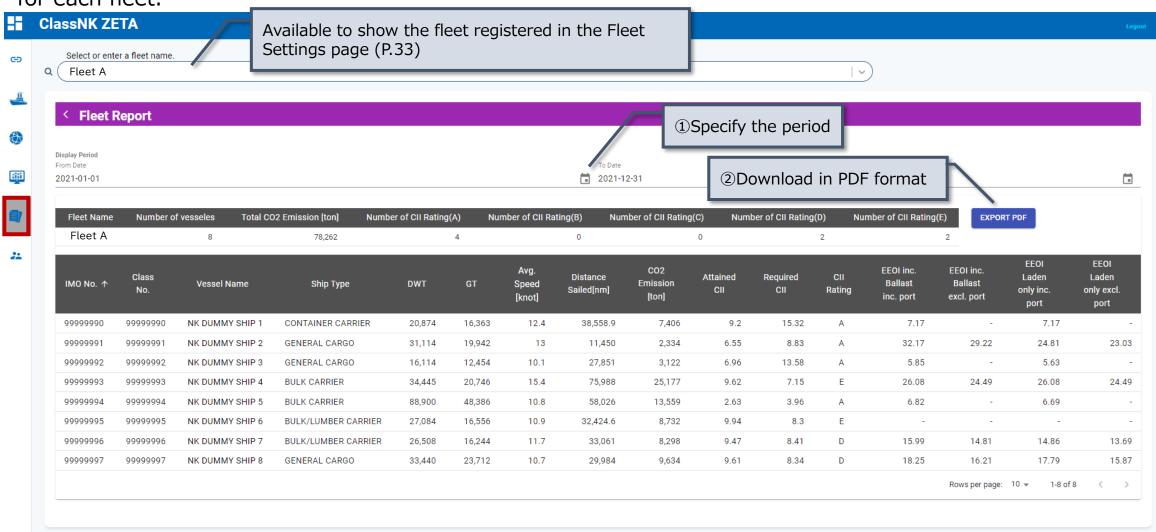
Vessel report allows you to download information in PDF format, such as voyage information, performance,
 CO2 emissions and CII ratings, etc. for each ship.



### Periodical Report: Fleet Report



 Fleet report allows you to download information in PDF format, such as CO2 emissions, CII ratings, EEOI, etc. for each fleet.



#### **Fleet Settings**



Fleet Settings allows you to set your own fleet information.

