

# ClassNK ZETA

**Zero Emission Transition Accelerator** 







**Simulation** 

# **ClassNK EU-ETS Seminar**

# Introduction of ClassNK ZETA EU-ETS function

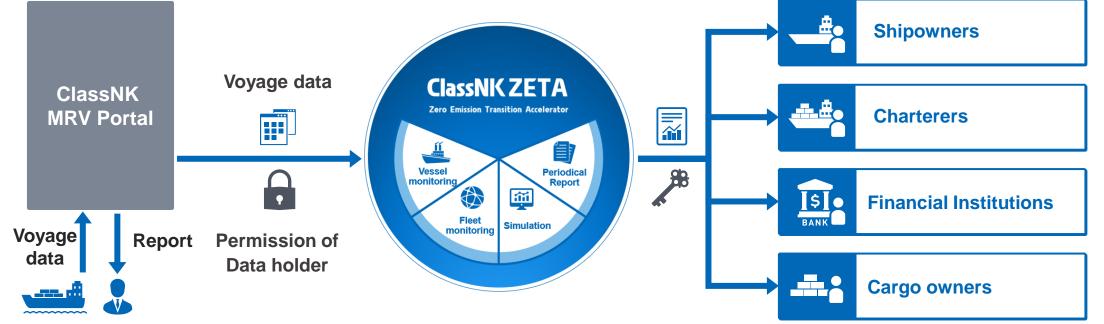
11 October 2023
Zero-Emission Transition Center
ClassNK



#### ClassNK ZETA

- Tool for visualizing CO<sub>2</sub> emissions from ships and CII ratings to support suitable GHG reduction management and necessary measures to be taken.
  - ✓ Monitoring of CO<sub>2</sub> emissions on a real-time basis (linked with ClassNK MRV Portal)
  - ✓ Simulating CO₂ emissions and CII ratings for individual ships / fleet as a whole
- Available for shipowners, ship management companies and charterers.





Ship management company, etc.

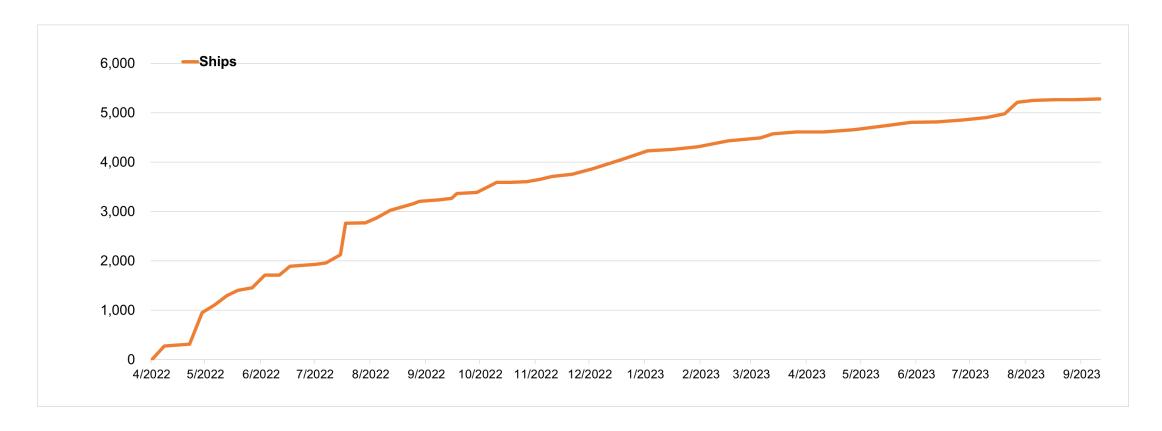
ClassNK's verification services for IMO DCS/EU/UK regulations etc are completely independent from ClassNK ZETA. The use of ClassNK ZETA does not impact the outcome of our verification services.



ClassNK ZETA

#### ■ ClassNK ZETA users

✓ Increasing number of companies have started GHG emissions management by ClassNK ZETA.





#### ClassNK ZETA

 Monitoring CO<sub>2</sub> emissions and CII rating of each ship without delay.

Based on the current operation status, estimated annual CO<sub>2</sub> emissions and CII ratings can be checked at any time for consideration of any necessary measures.

Add:

Management of EU-ETS for individual ships

 Monitoring CO<sub>2</sub> emissions and CII ratings of the fleet of your company without delay.

Estimated annual CO<sub>2</sub> emissions and CII ratings of entire fleet or the fleet in charge can be check at any time.

Add:

Management of EU-ETS for entire fleet



 Providing CO<sub>2</sub> emissions and CII rating report by a ship, fleet, voyage, etc.

Meets reporting demands required by various stakeholders, such as financial institutions, cargo owners, insurance companies, etc.

#### Add:

Provide various reports for EU-ETS

 Simulating CO<sub>2</sub> emissions and CII ratings of a ship and fleet when implementing slow steaming, installing energysaving devices, and/or switching fuels.

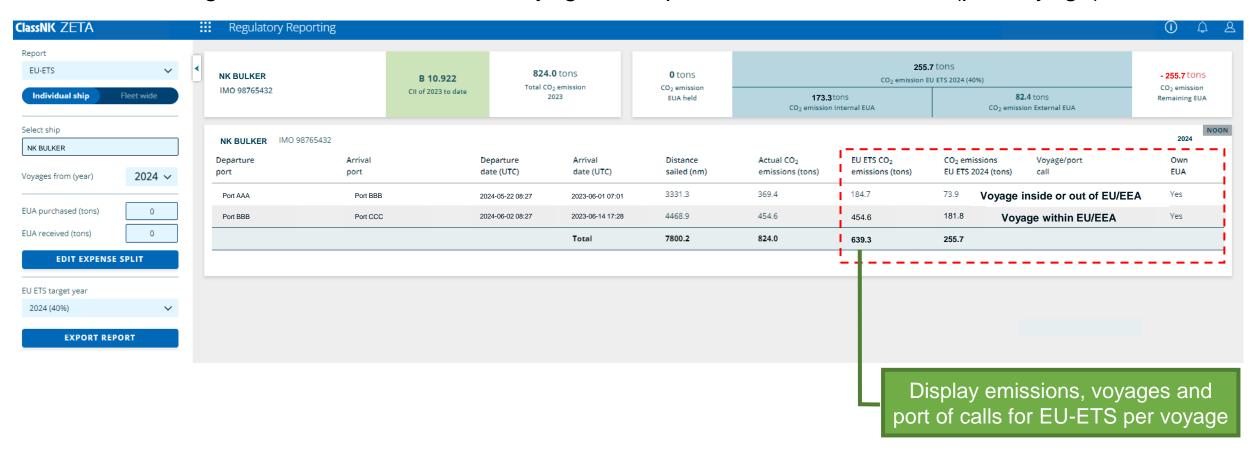
Possible to consider measures to reduce CO<sub>2</sub> emissions.



# EU-ETS Management on ClassNK ZETA (individual ships)

ClassNK ZETA: EU-ETS Management

Management of the emissions, voyages and port of calls for EU-ETS (per voyage)

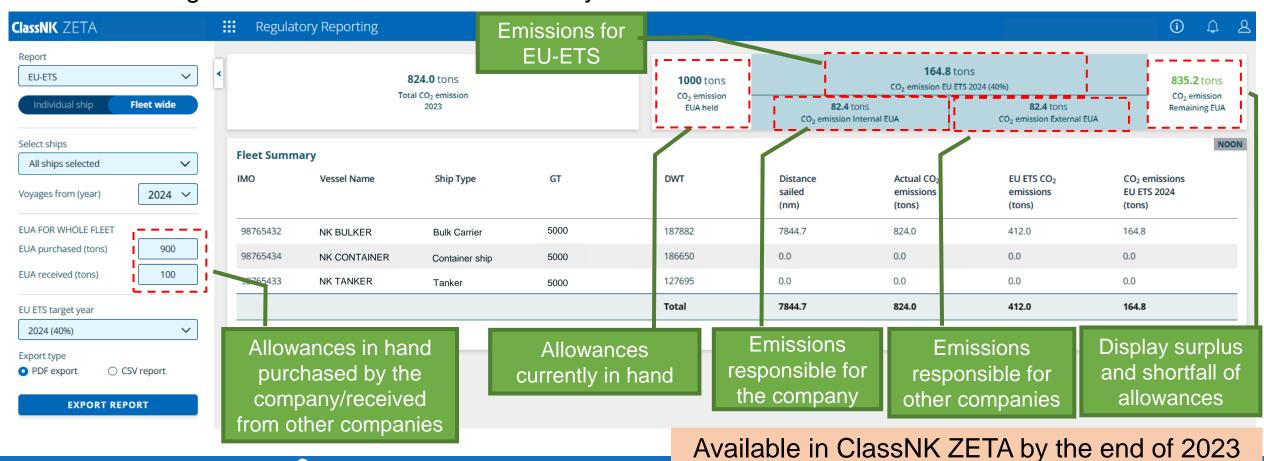


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## EU-ETS Management on ClassNK ZETA (entire fleet)

#### ClassNK ZETA: EU-ETS management

- Management of the emissions for EU-ETS for entire fleet
- Management of the emissions and allowances per responsible parties concerned.
- Management of the allowances currently in hand.





ClassNK ZETA: further updates

# ClassNK ZETA further updates

- **1** Management of FuelEU Maritime
  - ✓ Calculation of lifecycle GHG emissions
  - ✓ Management of entire fleet compliance with regulations



- 2 CII management related to the BIMCO II clause
  - ✓ BIMCO CII operations clause for time charter parties





for your kind attention

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