KANSAI PAINT MARINE CO.,LTD.

Paint Sommelier



CO₂ emission reduction support with the motto of utilizing real data

Mutually linked system utilizing bio-fouling data of vessels in service collected by Kansai Paint Marine, analysis of service profiles based on AIS information, and a propulsion performance analysis program created from the perspective of paint manufacturers.

- Data-driven approach

Analyze the service profile of the target vessel by using AIS information, biofouling performance is predicted for each candidate paint specification by cross-referencing with the biofouling database of vessels in service.

- CO₂ Emission Simulation

At the coating specification estimation stage, annual fuel oil consumption, actual voyage distance, data-driven biofouling performance predictions, and power curve information are input, and CII simulations are performed based on up to four cases of coating specifications and route setting conditions etc.

- CO₂ Emissions Monitoring

After leaving the dock, we will share the in-service data upon request, monitor estimated CII performances, compare them with the preliminary simulation results, and verify the impact of biofouling through propulsive performance analysis.



Charterer, Cargo owner

Contact detail

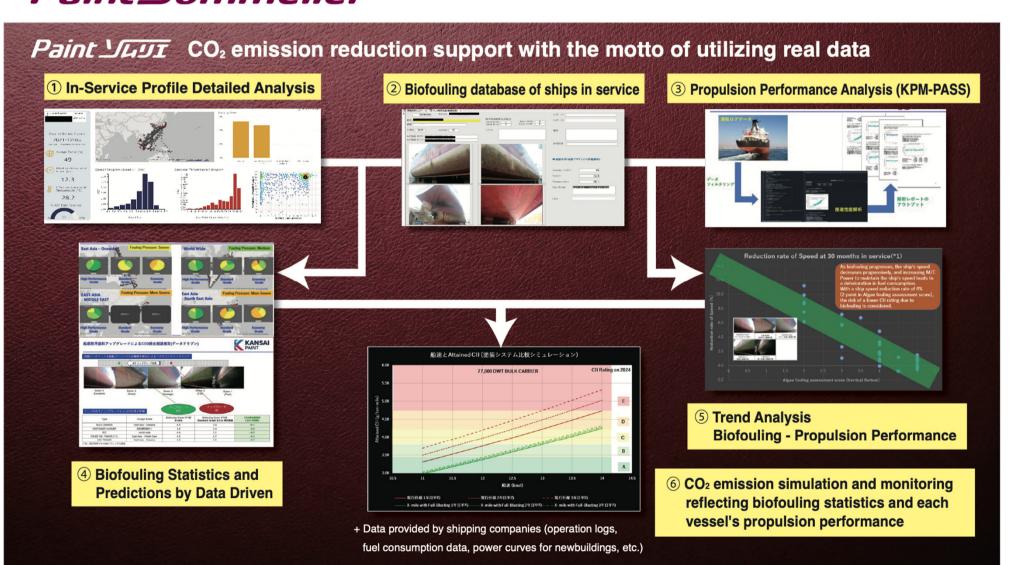
Please feel free to email us at Paint Sommelier paint_sommelier@kp-marine.co.jp



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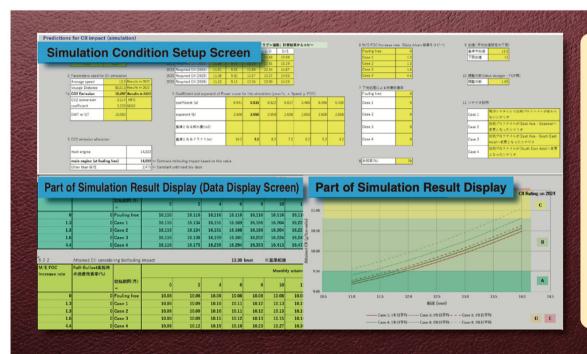




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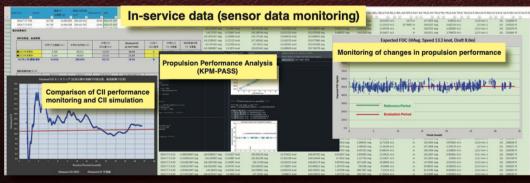
CO₂ emission simulation

Upper row: Condition setting screen

Vessel's operating parameters, annual fuel consumption, annual voyage distance, and biofouling data-driven calculation results, power curve parameters, expected service route, and other profile conditions, etc.

Lower row: Simulation result screen

Simulation results are output for each service profile, including CO₂ emission calculations by ship speed, estimated attained CII calculations, and estimated CII ratings by year.



CO₂ emission monitoring

Statistics: fuel consumption in main engine / generator and boiler, voyage distance, CO₂ emissions, estimated attained CII, estimated CII rating, etc.

Monitoring: fuel consumption in main engine / generator and boiler, voyage distance, CO₂ emissions, estimated attained CII.

Propulsion performance analysis: Monitoring for performance change.

Validation of simulations: Comparison of simulation and actual

measured approximate values in attained CII.