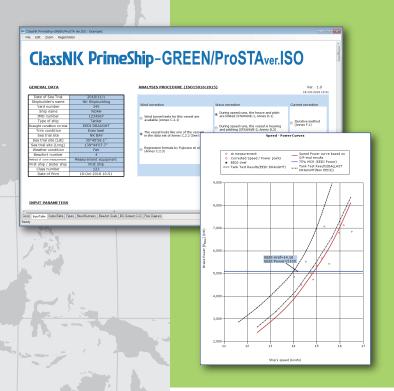


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Software for Progressive Speed Trial Analysis





Key Features

- Speed-Power performance analysis of progressive speed trial in compliance with ISO 15016:2015
- **◆**User-friendly interface
- ◆Transparent and easy-to-understand output
- Auto-generation of output results and figures for class approval

PrimeShip-GREEN/ProSTA ver.ISO is a software that allows users to analyze ship speed correction at progressive speed trials taking into account factors such as wind, current, wave, shallow water, displacement, water temperature and water density in compliance with ISO 15016:2015, and derive a ship speed for Energy Efficiency Design Index (EEDI) calculation.

Structure of the software

Input

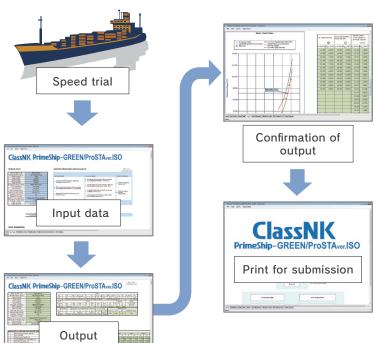
- ♦ Ship's principal particular
- ♦ Measured data on speed trial
- ♦ Weather conditions
- ♦ Self-propulsion factors, etc

Analysis steps

- Correction for resistance increased by wind, waves, water temperature and water density

- ♦ Correction for shallow water

Output

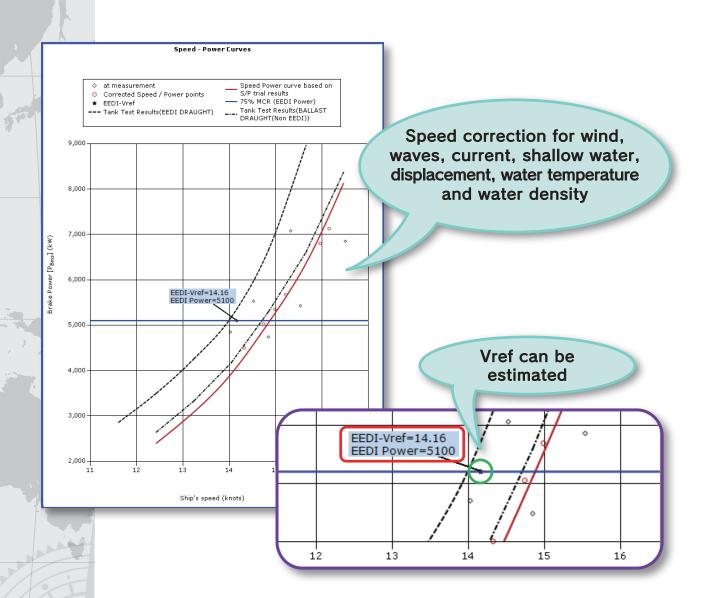






Estimation of the reference ship speed (Vref)

- ♦ The reference ship speed (Vref) required for EEDI calculation can be estimated on the basis of analysis results.
- ♦ Vref is the ship speed in EEDI loaded condition* at 75%MCR assuming calm weather with no wind and no waves.
 * EEDI loaded condition: 70%DWT for Container ships, summer full load draft for other types of ships.
- \Diamond For ships for which sea trial cannot be conducted under EEDI loaded condition, Vref is estimated by the following procedure:
 - ①Power curves under EEDI loaded condition and sea trial condition should be determined by conducting tank tests.
 - ②Vref should be adjusted taking into account the speed trial results.



PrimeShip-GREEN/ProSTA system requirements

Hardware requirement	Software requirements
Print function of Microsoft Windows	Windows 7 SP1 and above NET Framework 4.5.2 and above

