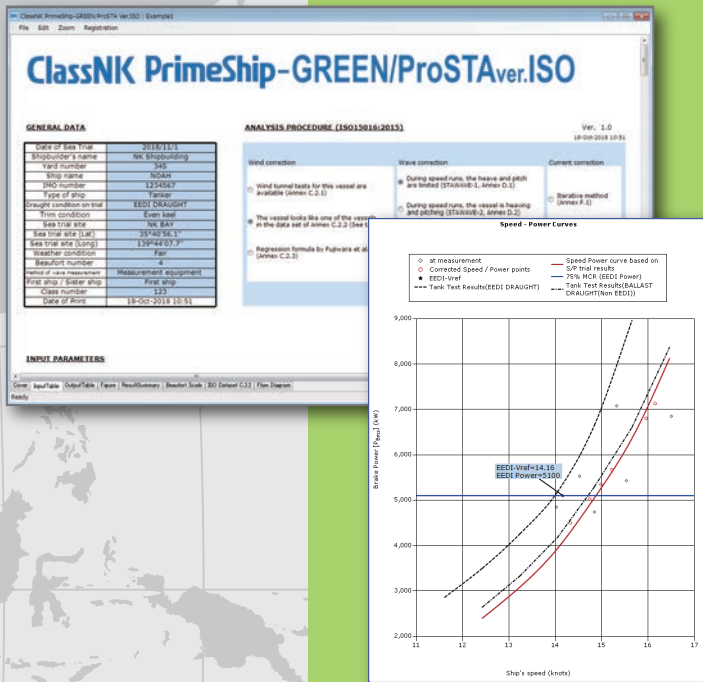


GREEN / ProSTA ver. ISO

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 used for the speed correction for wind, current, wave, shallow water, displacement, water temperature and water density at progressive speed trial in compliance with ISO 15016:2015

Structure of the software

Input

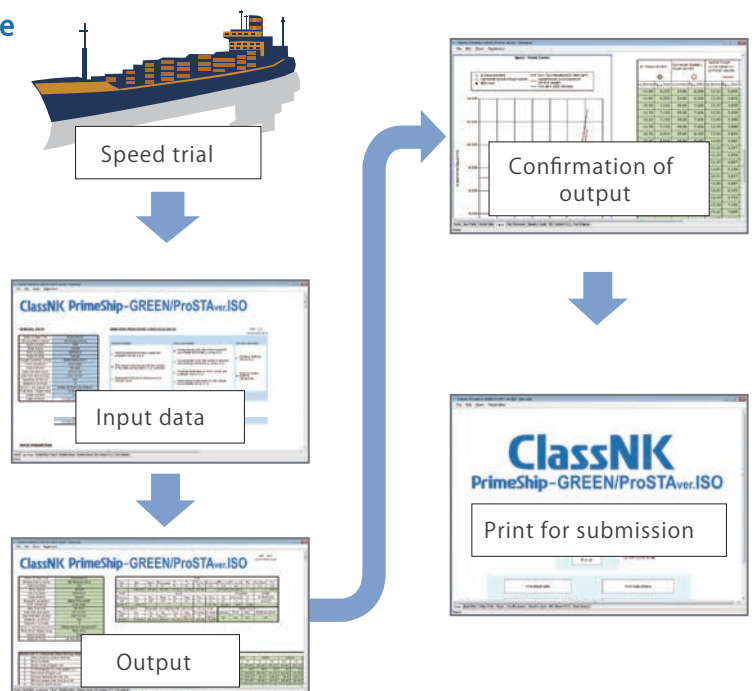
- ◇ Ship's principal particular
- ◇ Measured data on speed trial
- ◇ Weather conditions
- ◇ Self-propulsion factors, etc

Analysis steps

- ◇ Correction for resistance increased by wind, waves, water temperature and water density
- ◇ Correction for current
- ◇ Correction for displacement
- ◇ Correction for shallow water

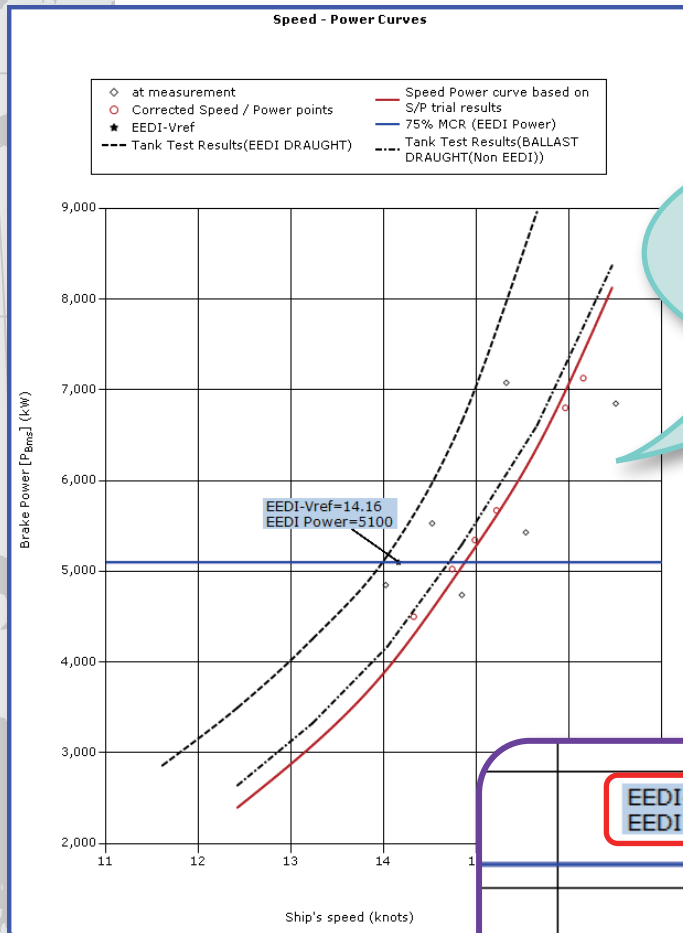
Output

- ◇ Calculation details
- ◇ Current curve
- ◇ Speed-rpm curve
- ◇ Speed-power curve



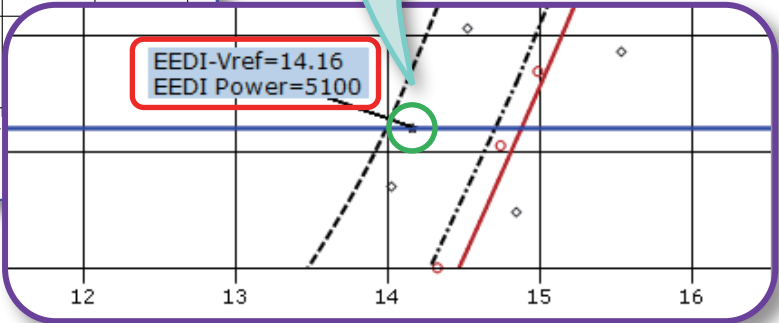
Estimation of the reference ship speed (Vref)

- ◇ 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*2 at 75%MCR assuming calm weather with no wind and no waves. *2 EEDI loaded condition: 70%DWT for Container ships, summer full load draft for other types of ships.
- ◇ For ships for which sea trial cannot be conducted under EEDI loaded condition, Vref is estimated by the following procedure:
 - ① Power curves under EEDI loaded condition and sea trial condition should be determined by conducting tank tests.
 - ② Vref should be adjusted taking into account the speed trial results.



Speed correction for wind, waves, current, shallow water, displacement, water temperature and water density

Vref can be estimated



PrimeShip-GREEN/ProSTA system requirements

Hardware requirement	Software requirements
Print function of Microsoft Windows	<ul style="list-style-type: none"> • Windows 7 SP1 and above • NET Framework 4.5.2 and above