

EU Horizon 2020 project

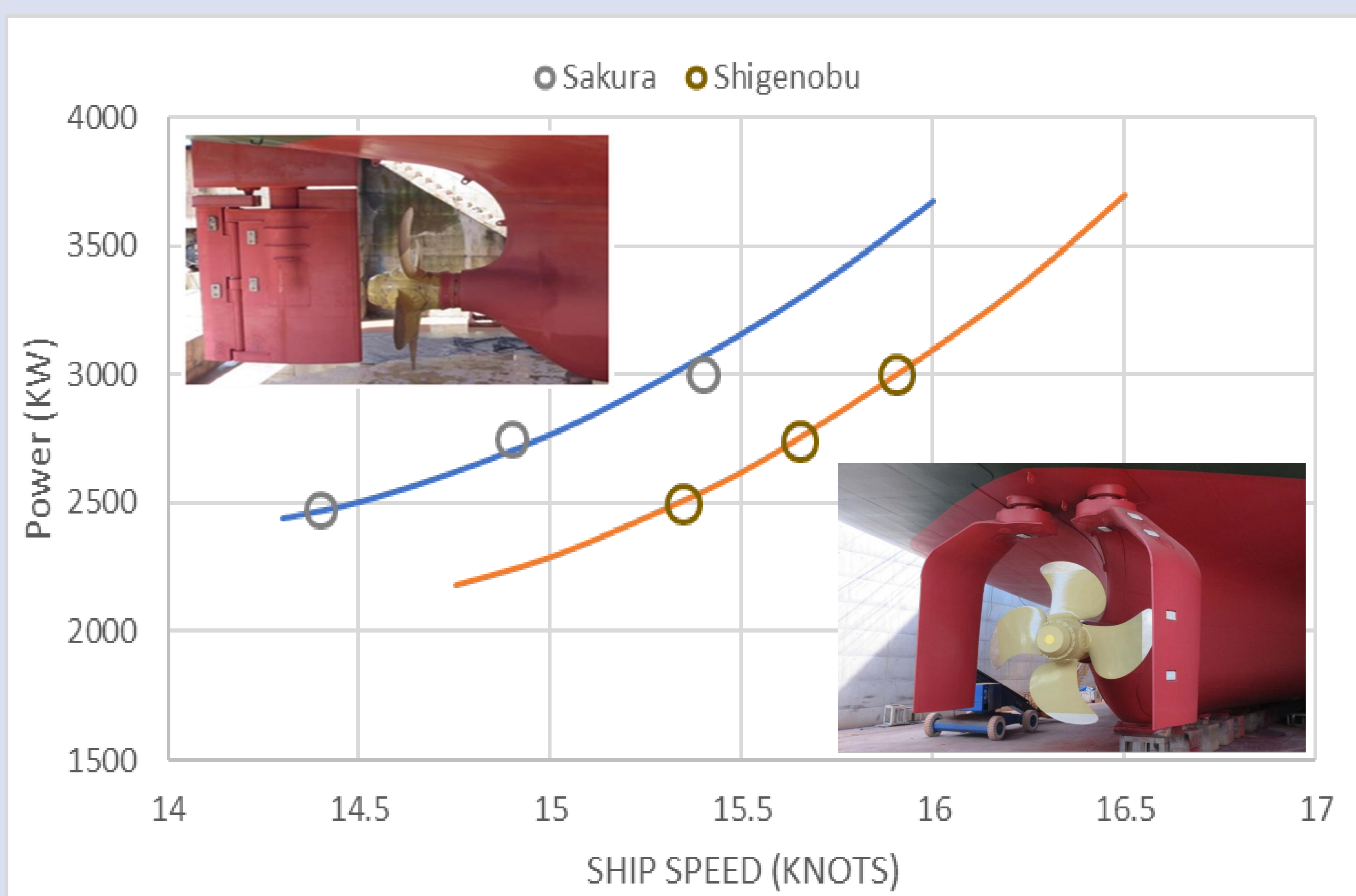
## Gate Rudder System as a Retrofit for the Next Generation Propulsion and Steering of Ships

### GATE RUDDER - The Next Generation Energy Saving & Steering Device

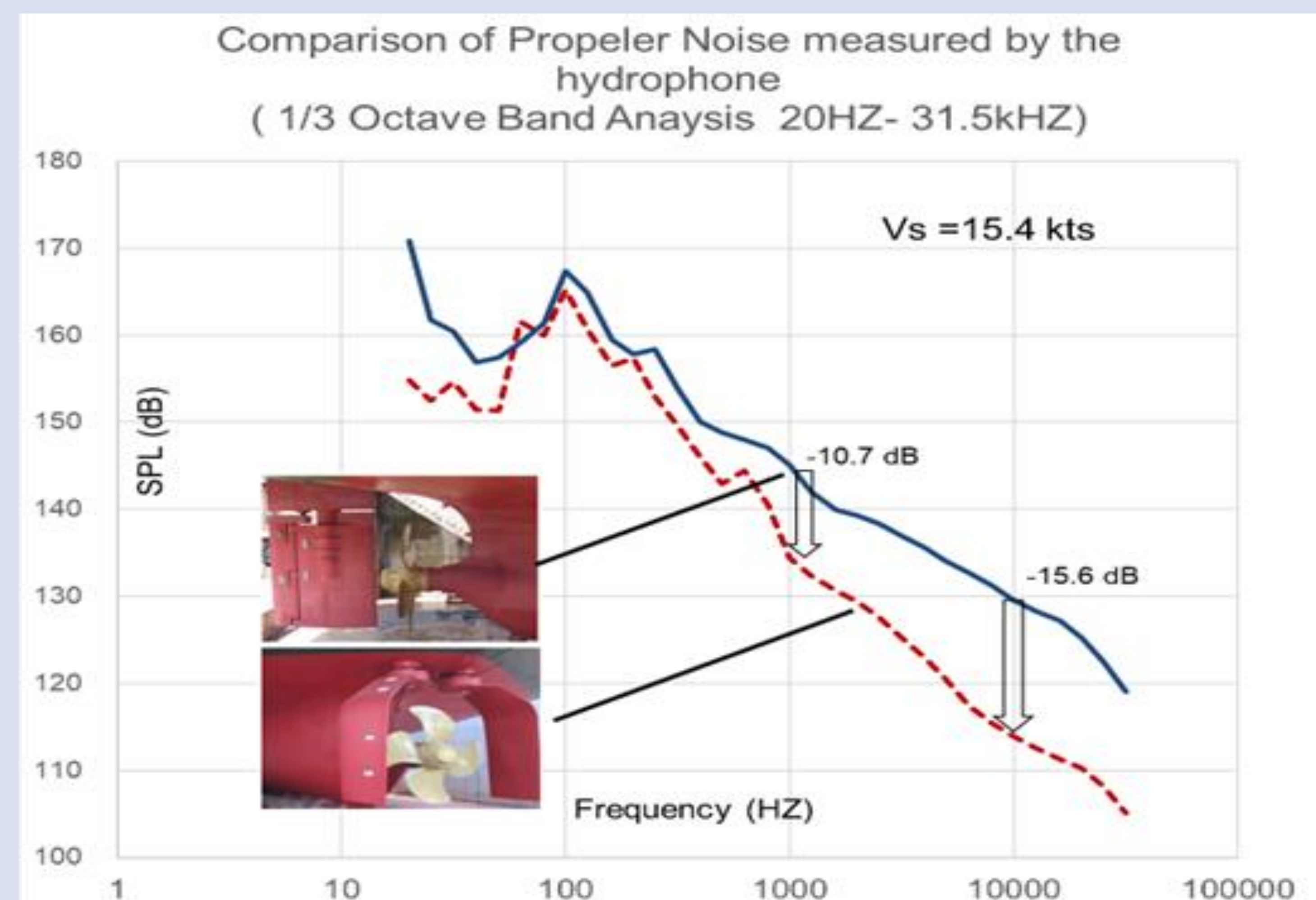
- **Perfect companion for carbon neutral propulsion**
- **Superior sole energy saving device**
- **Significant impact on EEDI/EEXI**

- **Enhanced steerability and manoeuvring**
- **More efficient and safer operations in waves**
- **Significantly reduced underwater noise and vibrations**

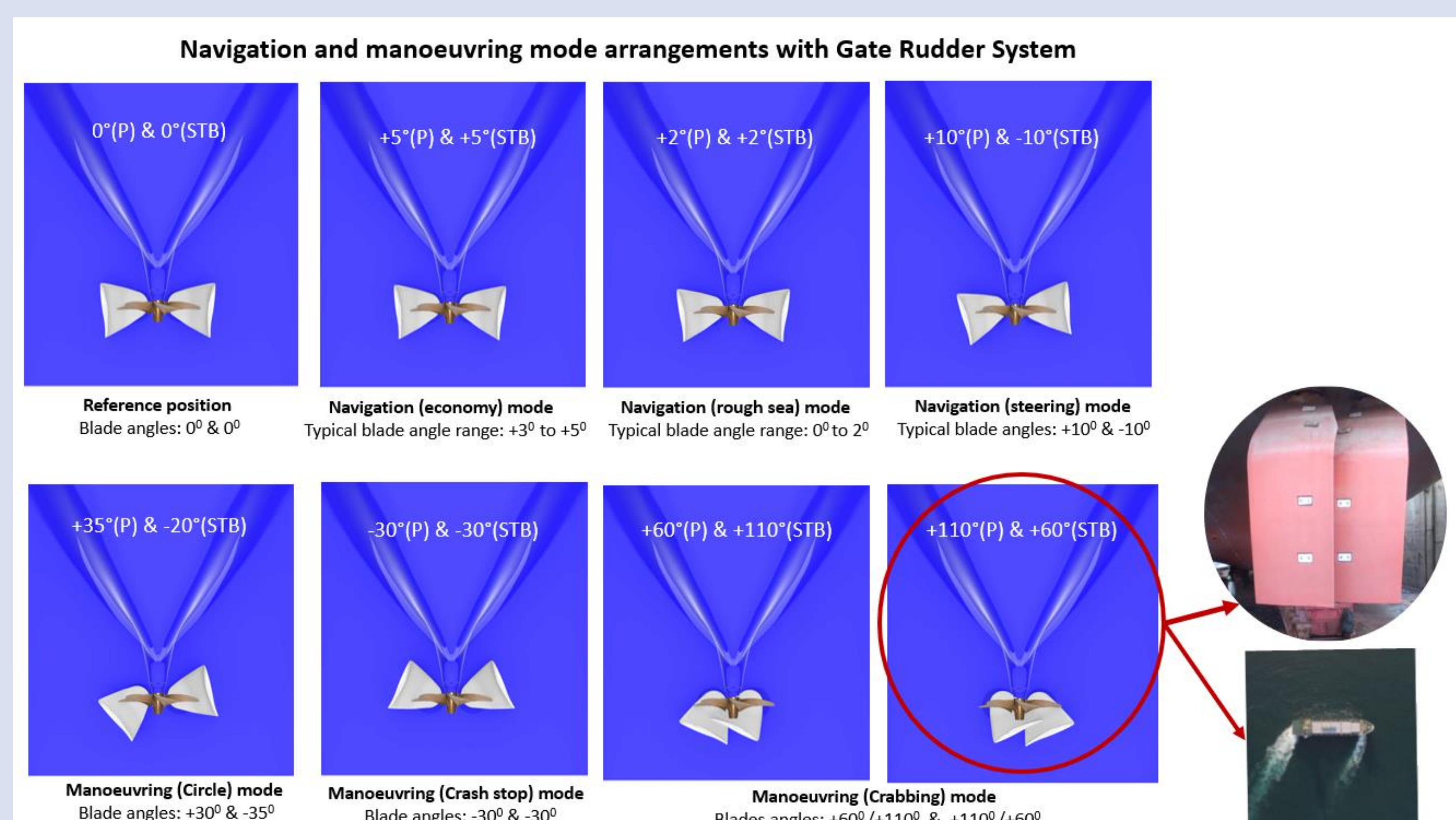
The first application of the GRS on a new-built Japanese container ship "Shigenobu"



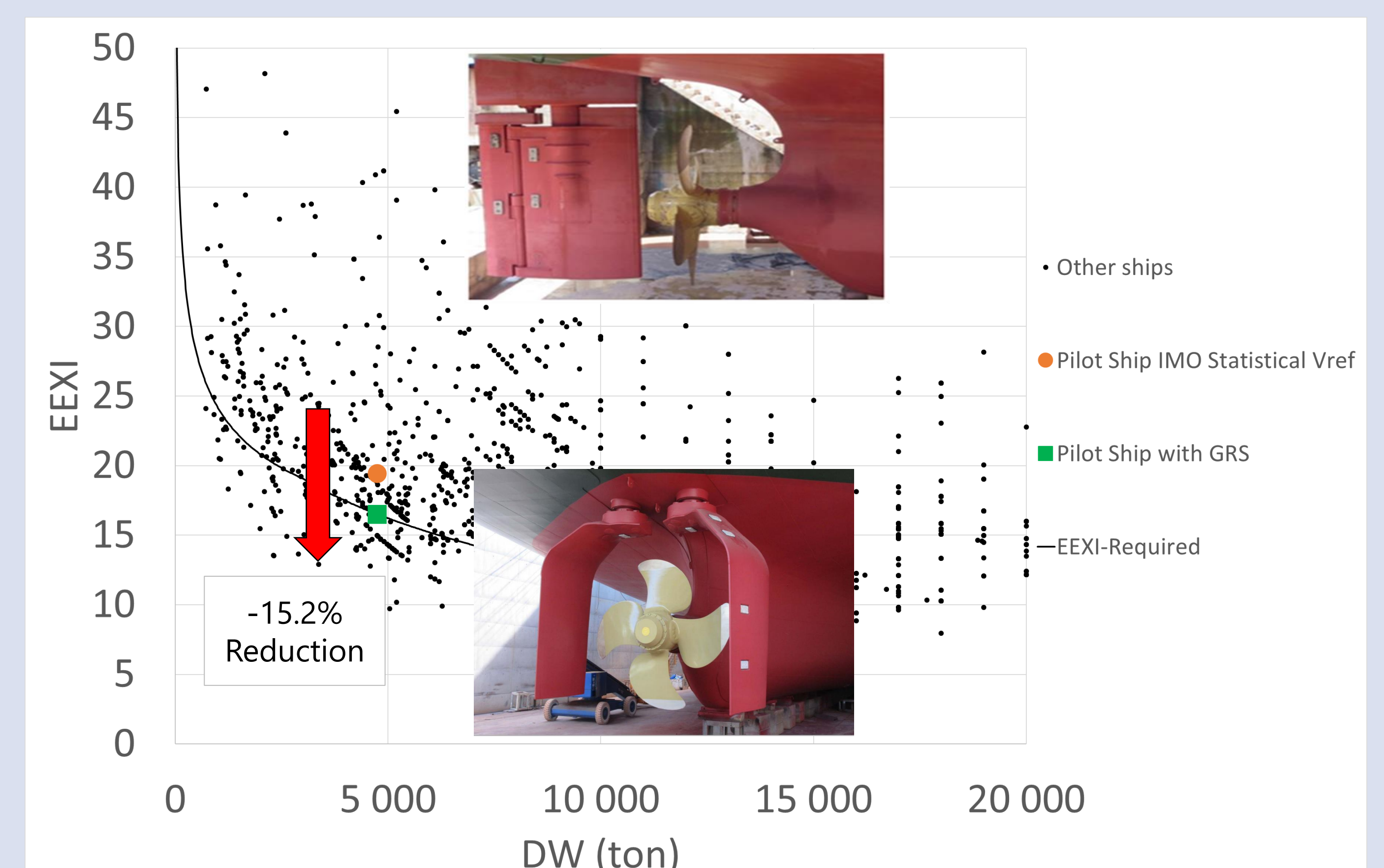
Remarkable fuel saving (up to 18% in joint trials), especially in-service and rough weather (up to 30%)



Reduced underwater radiated noise (up to 15dB) and vibrations



Improved steerability and manoeuvring (especially in harbours) without stern thrusters



Improved EEXI Compliance with sole Energy Saving Device

