

## EEXI SOLUTION – ESD-ENERGY SAVING DEVICE

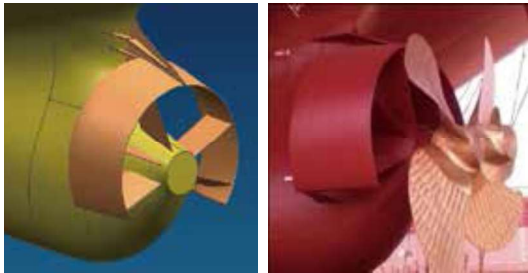
### Energy Efficiency Upgrade Implementation

- **Pre-shrouded Vanes (PSV)**  
3%~7% energy saving

Added Guide Vane to provide the pre-spin effect;

Reduce the propeller rotational energy loss;

Improve the propeller propulsion efficiency;



- **Propeller-Trimming(PT)**  
3%~5% energy saving

Reducing the propeller load;

Reduces the main engine fuel consumption.  
Recover the hub vortex energy loss;

10%-15% reduction of propeller load.



- **Vortex Absorbed Fins(HAVF)**  
2%~5% energy saving

Integrated design of propeller hub vortex elimination fin and propeller;

Recover hub vortex energy loss.



- **Rudder Bulb (RB)**  
1%~3% energy saving

Reduce disc ratio, optimized propeller blade load distribution, improve propeller propulsion efficiency.

