# PPG HullNav™

## Hull performance management toolkit

## Navigate your efficiency and reach your decarbonization targets

Discover more at: **ppgpmc.com/marine**

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### Key highlights

Transparency on conditions that affect hull performance is vital for maintaining vessel hull efficiency. With PPG's HullNav™, ship owners and operators can now gain access to valuable insights that affect their underwater hull performance, proactively identify operation and fouling risks and take timely actions to save on fuel, lower GHG emissions and minimize the transfer of invasive species.

PPG HullNav enables better decision-making related to vessel efficiency, operational performance and hull management.

### PPG HullNav helps to:

Timely manage and control vessel hull efficiency

Optimize a vessel's operational control and reduce expenses

Save GHG emissions and support GHG regulation compliance

### PPG HullNav includes the following services:

**Hull efficiency monitoring:**
Hull performance management and optimization

**Operational intelligence:**
Operational transparency and risk management

**Alerting system**:
Visibility and proactive management of risk factors

**Bespoke advisory**:
Risk mitigation advise and analysis

Each of the services can be used as a standalone module or as a complete all-inclusive service packaging.

### Hull efficiency monitoring

Regular monitoring of the hull's condition is essential for optimal performance. With our hull efficiency tracking KPIs, following the ISO 19030, ship owners and operators will be able to timely identify performance degradation and take action to reduce GHG emissions and minimize the transfer of invasive species.

### Operational intelligence

With the PPG HullNav operational intelligence module, shipowners and operators can now gain transparency on the performance of individual vessels or entire fleets, monitor the operational variables that affect the hull performance, and benchmark performance against selected market segments. The intelligence module also features fouling risk reporting, utilizing predictive algorithms with AIS position and oceanographic data, to identify and monitor fouling risk and pressure based on the vessel's operating conditions.

### Alerting system

PPG HullNav alerting system identifies timely deviations on multiple parameters critical for the vessel's performance. Including fouling risk exposure, idling at ports, idling temperature, activity and port calls. The need for action is assessed in collaboration with PPG experts, to ensure hull performance stays at its peak.

### Bespoke advisory

Ship owners and operators can leverage PPG's expertise in hull efficiency through the HullNav bespoke advisory. They will benefit from actionable recommendations based on the insights from our HullNav performance management toolkit. This empowers them to make data-driven decisions that significantly enhance the performance and efficiency of their vessels.

**Please contact your PPG marine account manager to find out more.**