International

Collaborative approaches and performance insights in hull fouling control



Dr. Barry Kidd

AkzoNobel

AkzoNobel International® marine coatings supporting vessel efficiency and fouling management

- 28+ years' experience in the marine coatings industry, specialising in hull efficiency, fouling control and decarbonisation.
- Partnering with shipowners and operators to improve real-world vessel performance through practical, data-driven solutions.
- Regular industry speaker on coating technologies, emissions reduction and sustainable shipping performance.



Dr. Barry Kidd

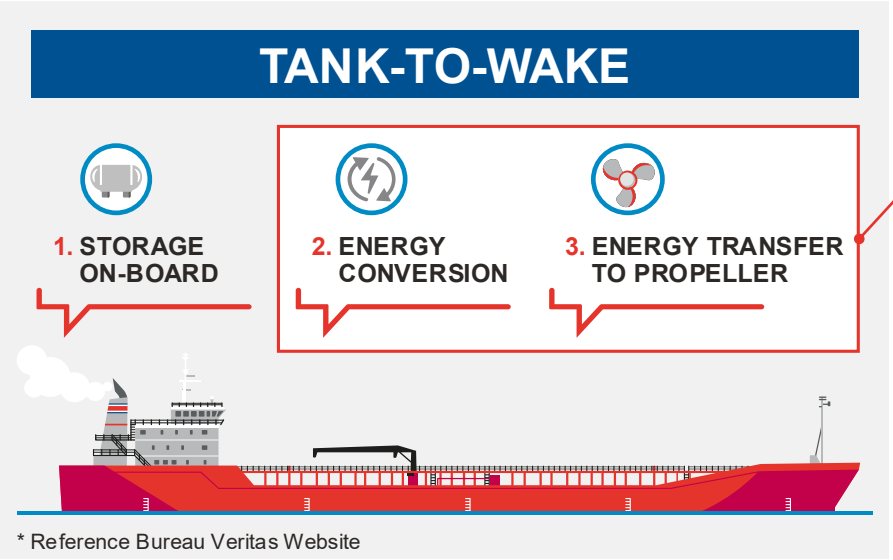
Business Development Manager, Vessel Performance

AkzoNobel - Marine, Protective and Yacht Coatings

Hull fouling control is a performance challenge

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Hull fouling control contributes to decarbonisation, but it is only one part of overall vessel performance.



* Reference Bureau Veritas Website

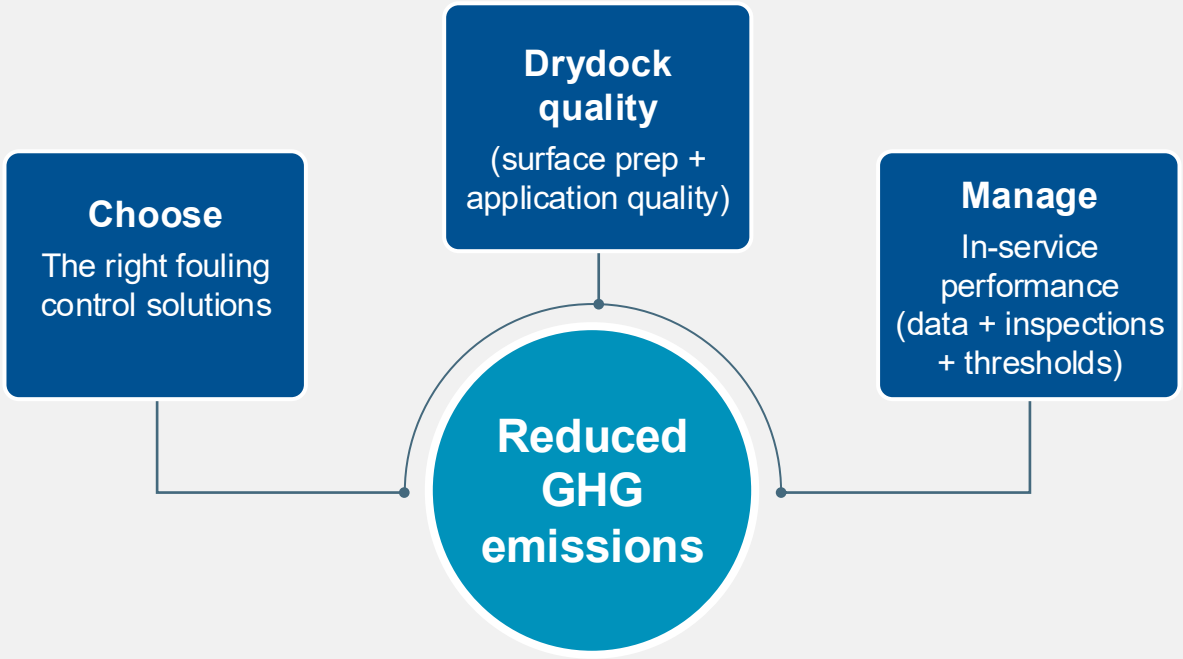
Growing pressure from CII, EU ETS and fuel costs

- Yard quality
- Propulsion efficiency
- Operations
- Voyage optimisation
- Hull and propeller condition
- Data quality

Reduce propulsion power demand: hull + propeller + operations

Decarbonisation initiatives

Focus on vessel propulsion efficiency and emissions

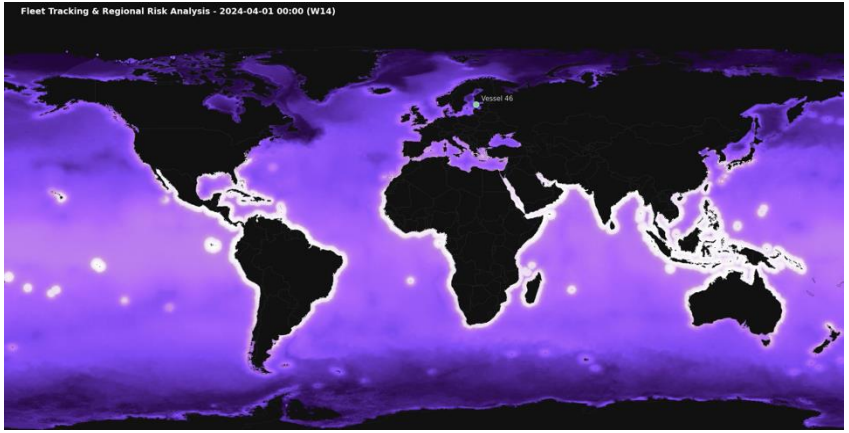


Choose the right fouling control solution

Aligning customer needs with solutions

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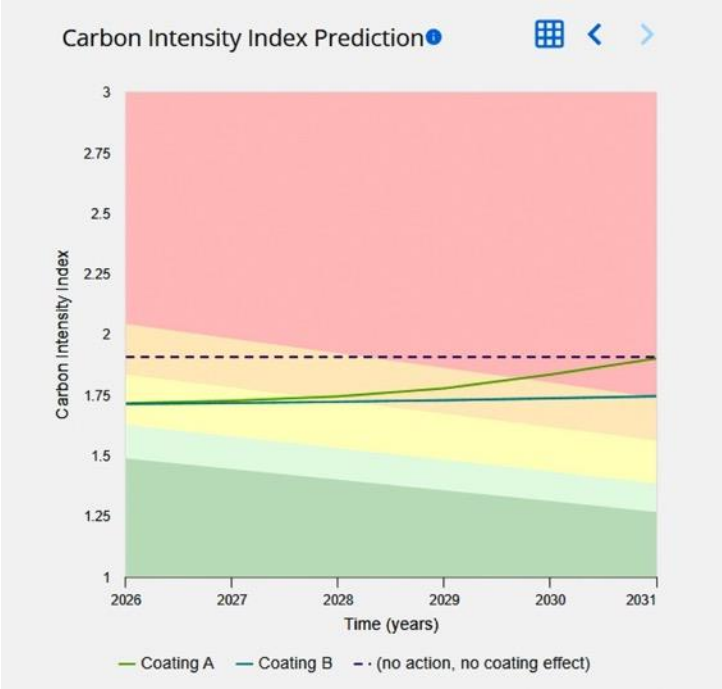
Vessel operations create fouling risk



Fouling increases hull resistance



Intertrac vision forecast



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Choose the right fouling control solution

Aligning customer needs with solutions

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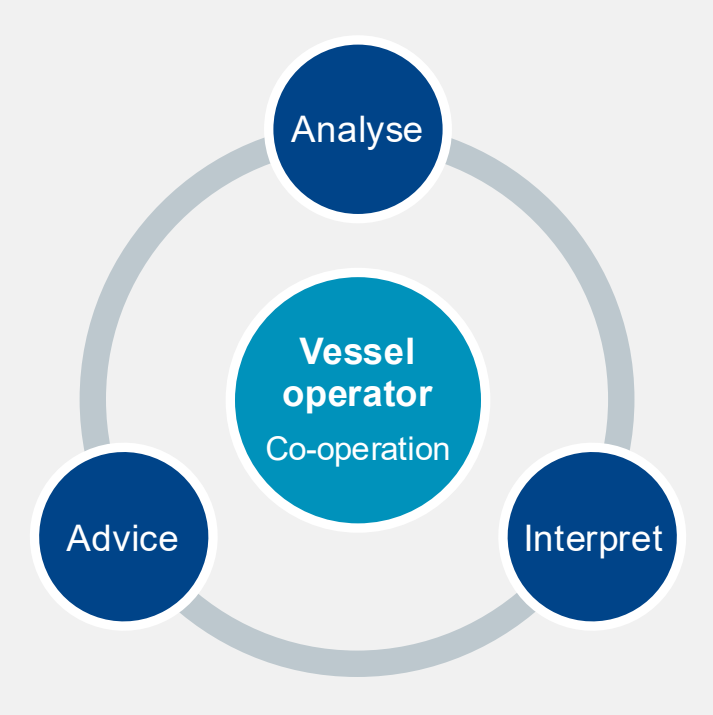
Empty dock / Washing / drying	Empty dock / Washing / drying	Empty dock / Washing / drying	Empty dock / Washing / drying
Days 1-2	**Days 3-4**	**Days 5-6**	**Days 7-11**
			

Drydock quality will be affected by many variables: weather, dock type and configuration (single or multi-vessel dock), steel preparation standard, applicator skill and coating scheme

Good drydock quality: best foundation for in-service performance

Manage in-service performance

International® hull performance management services



- Partnering with operator teams to turn complex in-service data into practical actions
- ISO 19030 vessel performance analysis capability independently assessed and verified by Lloyd's Register

Service value:

- Vessel performance analysis collaboration (trend reviews and performance insights)
- Hull and propeller inspection interpretation (supporting consistent decision-making)
- Hull cleaning advisory (guidance on if/when/how to intervene)

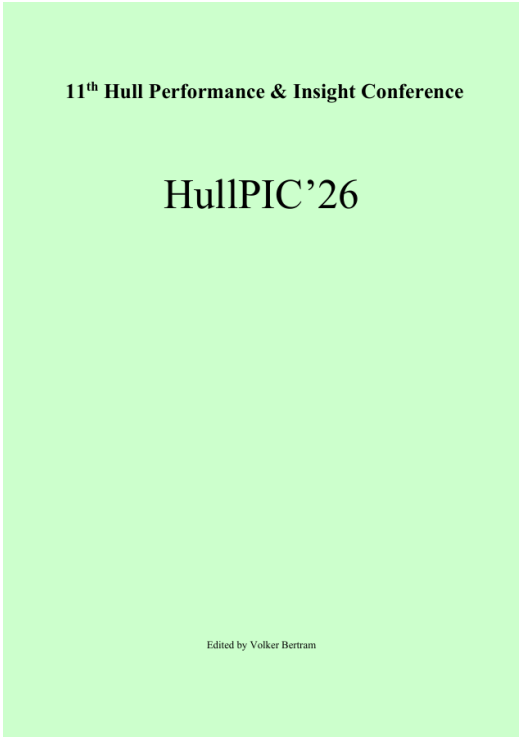
Better decisions

Sustained performance

Lower fuel and emissions risk

Published Papers

International® and Neda Maritime HullPIC 2026 Whitepaper | International-marine



This VLCC case study shows how data-driven performance analysis supports effective fouling-control decisions. It highlights the combined role of coating selection, vessel operations, and proactive maintenance in sustaining hull efficiency, reducing emissions, and avoiding unnecessary interventions

Data-Driven Insight: Neda Maritime integrated vessel analytics enabled reliable separation of hull, propeller, and machinery losses

Coating Performance: Intersleek® and Intersmooth® coatings maintained smooth hulls with average in-service hull losses of <2%

Operational Measures: Proactive speed increases and regular propeller polishing controlled fouling without hull cleaning

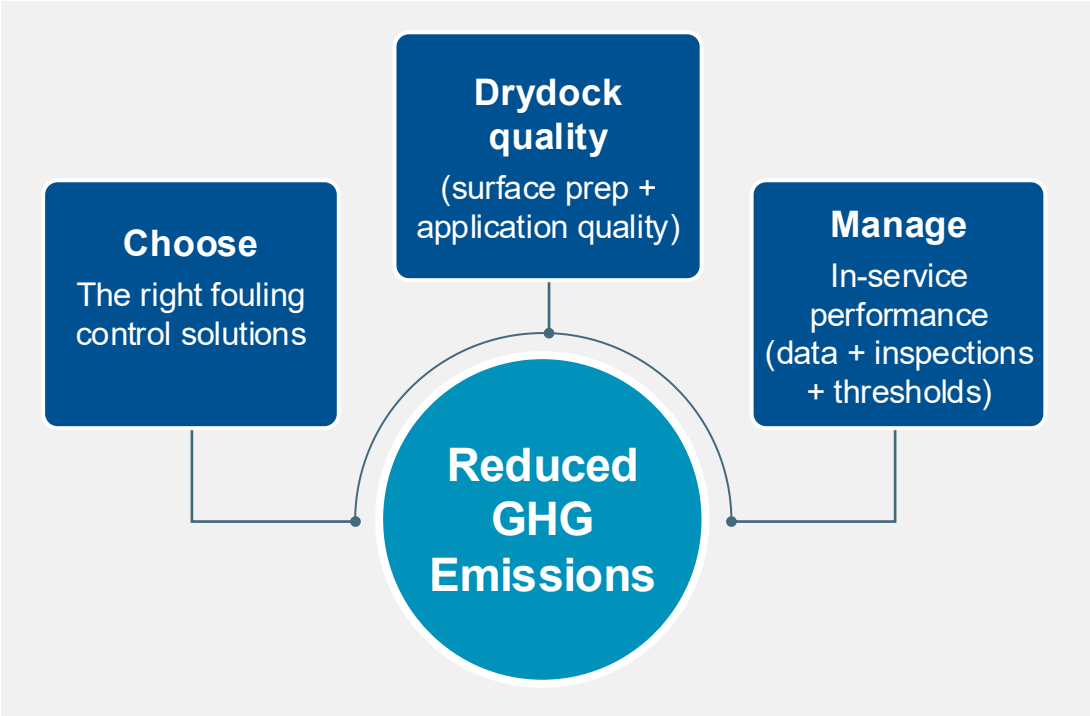
Environmental Compliance: Stable performance supports IMO biofouling guidance and decarbonisation objectives

Collaboration: Neda Maritime and International® partnership ensured accurate interpretation and lifecycle focused hull management

Decarbonisation initiatives

Focus on vessel propulsion efficiency and emissions

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Operational understanding

Coating selection

Quality application

Hull condition monitoring

Performance analysis

Targeted intervention

Fuel & emissions reduction

Thank you

If you have any questions, please reach out to me at barry.kidd@akzonobel.com

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