AGING FLEETS

Proactive Preventive Maintenance

Regular servicing and condition monitoring extend vessel life, Routine maintenance, such as vibration analysis and oil diagnostics, helps detect early failures, reducing costly breakdowns and ensuring optimal engine efficiency.

2 Advanced Hull & Propeller Coatings

Next-gen coatings reduce drag and prevent marine growth. Silicone-based and foul-release coatings keep hulls smooth, improving fuel efficiency while delaying expensive dry-dock maintenance.

Propeller Upgrades & Energy-Saving Devices

Retrofitting propellers and adding efficiency-enhancing devices boosts performance.

Upgrading to modern propeller designs or installing PBCF and Mewis Ducts reduces fuel consumption and optimizes thrust.

4 Optimized Slow Steaming

Reducing speed significantly cuts fuel consumption.

By operating at lower speeds and using engine tuning kits, vessels burn less fuel while maintaining efficiency, extending engine lifespan.

5 Weather Routing & Voyage Optimization

Al-powered software improves route efficiency and fuel use. Real-time weather data and ocean current analysis help ships avoid rough seas, minimizing delays and unnecessary fuel burn.

6 Just-In-Time Arrivals

Aligning ship speed with berth availability reduces idle time. Instead of waiting at anchor, vessels adjust speeds to arrive precisely when needed, cutting fuel waste and port congestion.

Fuel Monitoring & Performance Analytics

Real-time IoT data identifies inefficiencies and optimizes fuel use.

Installing fuel flow meters and performance analytics tools helps shipowners detect waste and improve operational decisions.

8 Automation & Energy Management

Automated power distribution cuts unnecessary fuel consumption.

Smart energy systems optimize HVAC, lighting, and auxiliary power usage, reducing generator loads and overall fuel costs.

9 Crew Training & Incentives

Educated crews make better fuel-efficient decisions. Training programs and incentive-based fuel savings initiatives encourage optimal speed management and proactive maintenance.

Low-Cost Compliance Tweaks

Simple adjustments help aging ships meet new regulations.

Engine power limiters and fuel mix optimization ensure compliance with IMO rules while lowering fuel consumption and emissions.