



Total Fuel Management

Beyond bunker testing and quantity measurement



Worldwide shipping activities today account for approximately 5% of total fuel emissions and are subject to progressively stricter environmental regulations. These regulations have wide-ranging implications on vessel operations and newbuilding plans, including onboard handling and consumption of bunkers. Managing marine fuels is therefore no longer just about verifying the quality and quantity of bunkers at the point of delivery.

Leveraging the knowledge and expertise accumulated over 25 years in the commercial bunker management business, DNV Petroleum Services now offers ship operators Total Fuel Management (TFM) solutions to help them tackle new issues on the market and regulatory fronts.

TFM benefits

One of the biggest challenges ship operators face is in managing bunker costs. With this in mind, TFM focuses on enhancing operational efficiency to help them meet environmental regulations and get the most out of their bunker-related investments. The target benefits include:

- Improved environmental performance
- Reduced fuel consumption
- Reduced maintenance costs
- Improved safety
- Improved risk management
- Improved reporting routines
- Synchronised and improved internal co-operation
- Reduced off-hire and time lost in port



TFM scope

The TFM concept adopts a holistic and systematic approach in handling bunker-related issues. It encapsulates the three main stages in marine fuel management.

▶ *Pre-bunkering*

- Evaluation of environmental requirements and performance
- Benchmarking against best practices
- Design of fuel treatment systems
- Bunker planning and policy formulation
- Organisation and implementation of fuel-related strategies and programmes

▶ *Fuel Delivery*

- Monitoring of fuel management performance against established practices and policies

▶ *Post-bunkering*

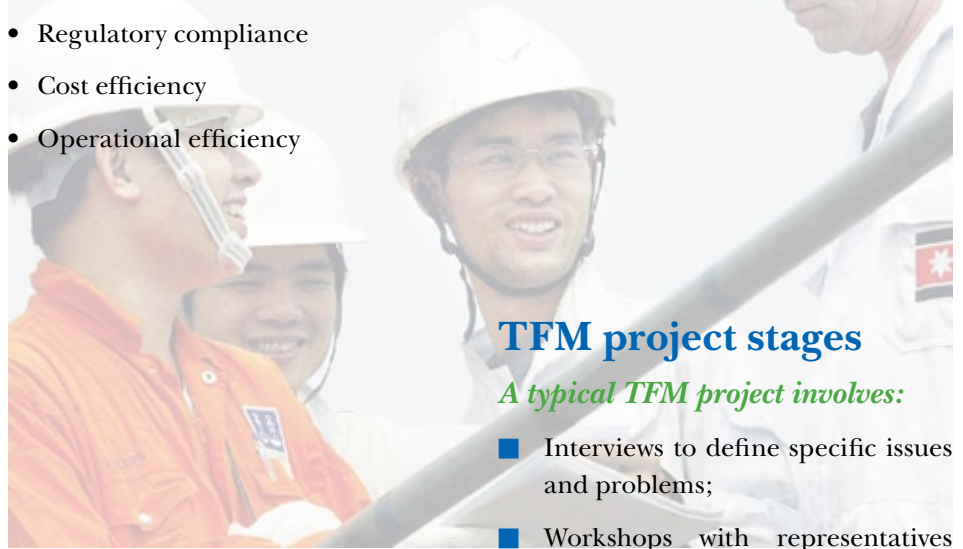
- Evaluation of efficiency in onshore fuel management and individual vessels' operations
- Performance optimization recommendations

From another perspective, TFM comprehensively addresses fuel requirements in vessel operation – from design of fuel treatment plants for newbuildings, to safe and efficient ship operations.

TFM critical success factors

TFM solutions are based on:

- Safety
- Best practices
- Regulatory compliance
- Cost efficiency
- Operational efficiency



TFM project stages

A typical TFM project involves:

- Interviews to define specific issues and problems;
- Workshops with representatives from across departments and hierarchy to communicate the identified issues and problems and to promote mutual understanding;
- Solutions formulation;
- Implementation.



TFM – complete solutions for complex fuel issues

Marine fuel management has undoubtedly become increasingly complex, with present-day decisions having significant consequences in the future. The shipping community has to take a broader perspective of fuel management by thinking beyond quantity and quality verification when dealing with bunkers. With this adjustment in mindset, ship operators will find that fuel efficiency can be enhanced by looking into the many different but inter-connected practices and issues in ship operations.

For more information on Total Fuel Management solutions, contact your DNVPS customer service manager or the nearest DNVPS regional office.

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