FUEL
EFFICIENCY

TESTIMONIAL

This Norwegian sector fishing factory trawler has used our Fuel and Emission reduction solution. They have experienced fuel consumption reduction of more than 9.6% while having greater than 25% reduction in NOx emissions.

Daily Average Fuel Consumption

Before
7425 Litres/day

After
6660 Litres/day with our EFR Catalyst Solution

SFOC Reduction

> 9.6% SFOC Reduction equates to over **$ 119,000 /year**

Savings

Total savings to client are over $ 119,000 /year in fuel cost.
The cost to the client for this Fuel and Emission reduction solution / year is **$ 25,000**

Net ROI of 4.75 : 1

Vessel Specifications

LOA:	54.2m	**Beam:**	12.6m	**Dr:**	6.05m
GRT:	1565 t	**NT:**	478 t	**DWT:**	700 t
Engine:	MaK 6M32	**Power:**	2640 kW	**Fuel:**	MDO

ECO*nomically* **SMART** *solutions*

3355 Panorama Drive, Redding, CA, 96003, USA
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PR O8 TWELVE
REDUCING FUEL CONSUMPTION • REDUCING EMISSIONS

FUEL EFFICIENCY

TESTIMONIAL

This Norwegian sector PSV has experienced fuel consumption reduction between 5.4 - 9.6%

Daily Average Fuel Consumption

Before
12,500 Litres/day

After
11,410 Litres/day with Catalyst Solution

SFOC Reduction

> 8.7% SFOC Reduction equates to over **$ 173,630 /year**
(at $587/t MDO and 3,400t/year average fuel consumption)

Savings

Total savings to client are over $ 173,630 /year in fuel cost.
The cost to the client for this Fuel and Emission reduction solution / year is **$ 40,190**

Net ROI of 4.32 : 1

Vessel Specifications

LOA:	72.0m	**Beam:**	14.41m	**Dr:**	7.7m
GRT:	1851 t	**NT:**	555 t	**DWT:**	1830 t
Engine:	Wartsila VASA 16v32	**Power:**	2 x 5564 Hp	**Fuel:**	MDO

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FUEL EFFICIENCY

TESTIMONIAL

This general cargo vessel operating about the coast of Norway has experienced fuel consumption reduction between 6.3 - 9.2%

Daily Average Fuel Consumption

Before
7470 Litres/day

After
6780 Litres/day with Catalyst Solution

SFOC Reduction

9.2% SFOC Reduction equates to over **$ 108,570 /year**
(at $587/t MDO and 2,030t/year average fuel consumption)

Savings

Total savings to client are over $ 108,570 /year in fuel cost.
The cost to the client for this Fuel and Emission reduction solution / year is **$ 24,960**

Net ROI of 4.35 : 1

Vessel Specifications

LOA:	87.0m	**Beam:**	13.0m	**Dr:**	5.5m
GRT:	2545 t	**NT:**	555 t	**DWT:**	3150 t
Engine:	MAK 6M25	**Power:**	1980 kW	**Fuel:**	MDO

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FUEL EFFICIENCY

REDUCING YOUR NOx, Particulates, SFOC and CO2 FOOTPRINT IS EASIER THAN YOU THINK!

FUEL CATALYST

Reduce NOx, SOx and Particulate emissions, and eliminate visible smoke, Also reduce your fuel consumption from between 5% and 9%. This solution can produce a return on investment greater than 4.50:1 allowing you to exceed regulatory requirements while improving your company bottom line.

INTEGRATED SOLUTION

PRO 8 TWELVE provide an integrated solution that combines fuel additive technology and our Blend Glide© fuel catalyst dosing, Engine and Emission Monitoring and Emissions Measurement and Reporting System.

SMOKE REDUCTION

Smoke is produced from unburned hydrocarbons and oxides of sulfur. The improved burning of hydrocarbons during combustion provide reduction and control of NOx formation and particulate emissions of unburned and partial burn of carbon forming CO.

INCREASE COMBUSTION EFFICIENCY

These particulate and CO reductions equate to reductions in specific fuel consumption and increase in energy released from the fuel.

BOILERS, both high and low pressure boilers will see results in improved combustion efficiency through increased radiant heat transfer, a dramatic reduction in soot, improving cleanliness, reduced slag deposits further improving heat transfer rates, reductions in hot end and cold end corrosion, reduced excess air further improving combustion efficiency.

DIESEL ENGINES slow medium and high speed engines operating on any hydrocarbon fuel will see an improvement in combustion efficiency. benefits include:
Reduced lube oil contamination, reduced wear rates from hard carbon deposits, reduced exhaust temperature, reduced exhaust valve seat wear.

Diesel Engines

- NOx 25% to 40% Reduction
- Particulate 30% to 60% Reduction
- Smoke elimination
- SFOC reduction 5.4 - 9.6%
- Extended life of post engine NOx catalyst systems

Boilers

- Sulfur Trioxide reduction > 45%
- Boiler cleanliness.
- SFOC reduction.
- Particulate reduction > 60%
- Smoke plume reduction.

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