

# FUELTRAX BESTECONOMY THROTTLE SETTINGS REDUCE FUEL CONSUMPTION IN UNDERWAY MODE

FUELTRAX takes direct measurements and uses smart data to give captains best options to maximize fuel.



## The challenge:

A FUELTRAX® client needed to reduce total annual fuel spend in all areas of operations. Mindful that the largest amount of fuel is consumed by vessels operating in underway mode - 4.9million gallons, or 41.8% of annual fuel spend in 2015 – the client was looking for data to show how operations in underway mode could be improved to deliver a reduction in fuel use.

## The solution:

Turning smart data into practical analytics, FUELTRAX has established how vessels using BestEconomy mode can achieve fuel savings through real-time throttle recommendations delivered to the captain. Vessels using BestEconomy mode over 50% of the time while in underway mode saw greater savings than vessels using it less than 50% of the time.

## The process:

FUELTRAX collected accurate, direct measurements with Coriolis mass flow meters, enabling owners to define optimal working parameters. Modes were studied to find optimizations, compare vessels, and analyze operating mode conditions and variables (such as number of engines and types; and

throttle optimizations). Based on an algorithm that works for all engine, fuel and vessel types, two throttle settings are available: BestEconomy brings maximum savings with small loss in speed, taking advantage of the exponential relationship between speed and fuel for marine vessels. BestSpeed enables maximum speed with minimum fuel consumption, and takes the slip out of the wheel.

## The results:

Increased utilization of BestEconomy resulted in an average of 4.1% reduction in fuel consumption. The client found that vessels using BestEconomy more than 50% of the time reduced consumption an average of 6.08%. Vessels using BestEconomy less than 50% time only reduced consumption by an average of 2.10%. With two-thirds of the fleet using BestEconomy throttle settings 80% of the time, a top third goal of 6.6% savings was attainable.

BestEconomy should only be activated under appropriate operating conditions, and therefore may not be able to be activated 100% of the time.

**Talk to FUELTRAX to find out how we can help you to reduce costs, maintain fuel security and maximize uptime**

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