

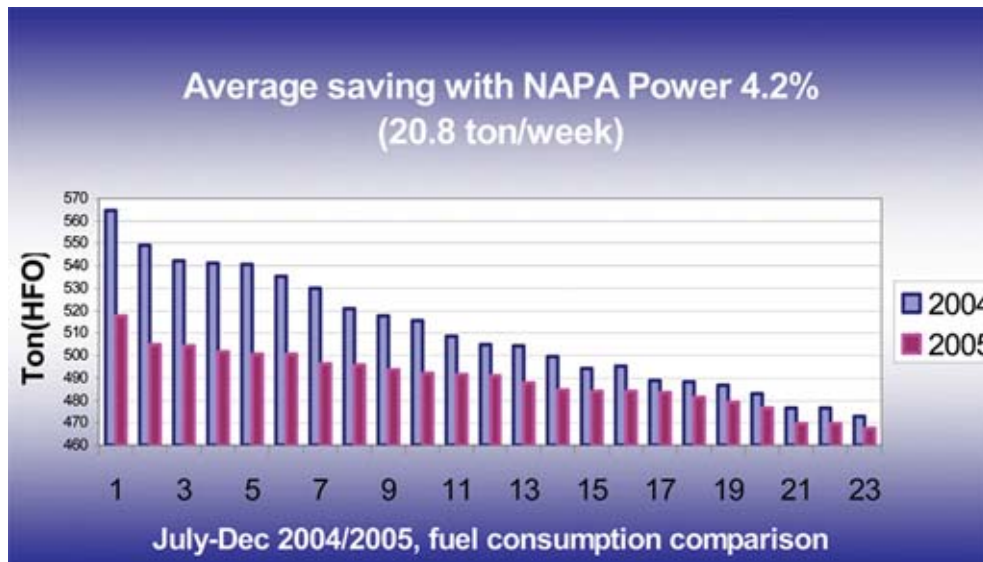
**NAPA Power**  
*for Cost-Efficient Ship Operation*

## What you can't measure you can't Manage! What you can Manage you can Optimise...

Star Cruises is one of the shipping companies that save fuel with NAPA POWER.

Do you need to save fuel too? We are ready to help you.

Call us at [210 45 28 250](tel:2104528250) to arrange a presentation of NAPA Power for you.



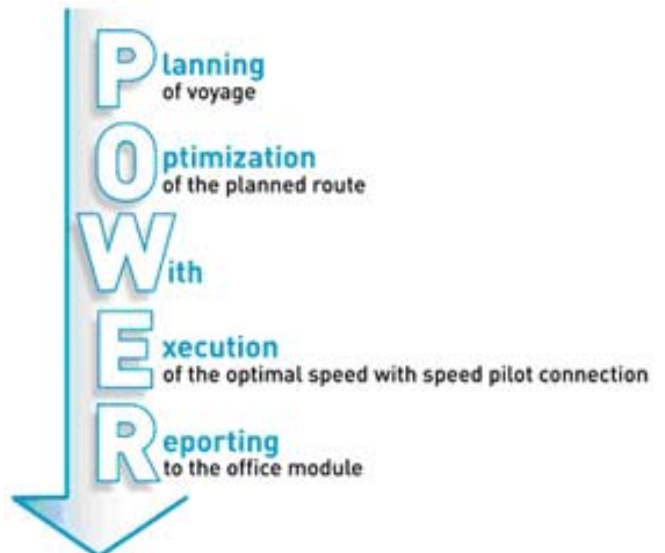
6 months comparison total HFO

**NAPA Power** is a powerful and easy-to-use tool for efficient operation of single ships and for monitoring of large fleets. The system assists the Master in planning and executing voyages, the aim being to reach the destination on time at the lowest possible cost. Consistent use of NAPA Power has proven savings of approx. 5 % in fuel consumption used for propulsion.

NAPA Power is based on an accurate NAPA product model of the ship. The model combined with weather and current forecasts gives precise performance calculations. In addition to the NAPA model, all available model test and full-scale trial data are used to perfect NAPA Power's accuracy.

The **Ship Module** can be used for:

- Optimizing speed, route and engine mode
- Real-time monitoring of passage
- Executing the optimal plan by speed pilot
- Simulating the cost effect for any arrival time or speed profile



- speed profile
- Rescheduling a voyage in order to meet changes in arrival time
- Weather routing

With the NAPA Power Office Module, the office personnel can monitor performance indexes for every vessel. All voyages are reported back to the office for further analysis.

In combination with the onboard system, the **Office Module** can be used for:

- Follow-up of fleet performance
- Simulation of costs for a changed estimated time of arrival
- Reporting of fuel consumption and Key Performance Indicators

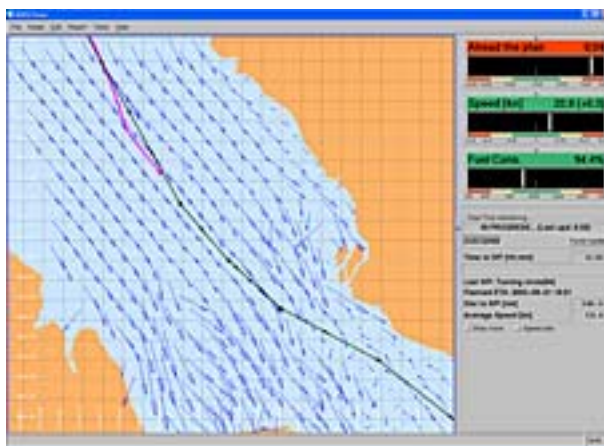


Reporting and follow-up of energy consumption throughout the fleet

### Fair Winds for NAPA Power

The number of NAPA Power installations is rising rapidly. Norwegian Cruise Line (NCL) had the system installed on four of their vessels in 2007, and more installations are scheduled for 2008.

All NCL installations are to be supplemented with the NAPA Power Speed Pilot module. Two first Speed Pilot systems were recently installed on the Norwegian Dawn and the Norwegian Jewel. The speed pilot module features an electronic interface to the propulsion control system and enables NAPA Power to control the rpms of the propellers automatically, thereby maintaining the optimal speed for each leg automatically and accurately.



The benefits of computer-controlled ship speed are obvious: computer speed control is exactly accurate, whereas a person cannot maintain the same accuracy and tends to sail the ship slightly faster than actually required. The results of computer-controlled speed are improved fuel economy and better ETA keeping. In addition, when the computer can perform speed control, the officer on watch can focus more on watchkeeping itself.

In designing the speed pilot, much attention has been paid to safety. The design is approved by DNV, and the onboard commissioning program included comprehensive tests of all failure conditions. The onboard commissioning program was witnessed by a local DNV surveyor.



**NAPA Release 2007.2 will be available in December 2007.**

Do not hesitate to [contact us](#) regarding more information on Napa Software for Ship Operations.

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