FleetDSS helps us with insights, analytics and most importantly, helps us communicate by looking at the same numbers. It is truly a partnership where we continuously co-develop the system. Automated compliance to new regulations helps us reduce bureaucracy. They are very customer-focused and respond quickly. I am not easily satisfied, but they keep surprising me.”

Rens Groot, New Buildings Manager
Berge Bulk Maritime Pte. Ltd.
Fleet Decision Support System

StormGeo addressed the market when designing the new Fleet Decision Support System (FleetDSS). Partnering with clients, key feedback was utilized to develop tiered levels of FleetDSS, providing a tailor-made solution that meets clients’ needs.

FleetDSS has been designed to:

- Streamline daily, routine work of fleet management by identifying the vessels that need the most attention
- Allow monitoring of the vessels’ technical, commercial and operational performance at any time
- Allow the user to make better, more profound decisions at an earlier stage of the voyage
- Enable ship owners to be fully compliant to regulatory requirements such as MRV and IMO DCS

01 FleetDSS Emissions

The FleetDSS Emissions module collects the data and creates the documents needed to show compliance with regulations such as EU MRV and IMO DCS for shipping companies. The system helps create monitoring plans, view leg-by-leg voyage reports and generate annual emissions reports. In addition, the required reports can be sent directly to the verification company of choice.

Essential features include:

- Assessment of the true “Good Weather Speed” and average consumption of the vessel at sea through application of acknowledged analysis methods
- Calculation of time gain/loss and over/under consumption with respect to a charter party agreement
- Assessment of the consumption in port
- An abstract of analysed weather and current conditions along the track

02 FleetDSS Performance

The Performance level of FleetDSS gives an ongoing analysis of a vessel’s commercial performance in relation to a charter party description or established benchmarks.

Essential features include:

- Assessment of the true “Good Weather Speed” and average consumption of the vessel at sea through application of acknowledged analysis methods
- Calculation of time gain/loss and over/under consumption with respect to a charter party agreement
- Assessment of the consumption in port
- An abstract of analysed weather and current conditions along the track

03 FleetDSS Analytics

The Analytics module monitors and evaluates the technical performance of a fleet.

Essential features include:

- Discovering and interpreting meaningful patterns in data and comparing these to reference benchmarks and sister vessels
- Speed & consumption curves based on normalized speeds
- Hull and propeller performance
- Operational profile: optimum control of actual operating conditions, monitoring of utilization and improved cooperation with charterer
- Incorporating auto-logged data and aligning with manually reported data

By calculating curves and KPIs, FleetDSS Analytics monitors a vessel’s conditions over any period and can compare this performance to benchmarks or other vessels of the fleet. This results in a more accurate c/p description for speed and consumption.

04 FleetDSS Liner/Tramp Operations

Dedicated functions allow assessment of a ship’s voyage progress when routed by StormGeo. Confidence levels, based on ensemble forecasts, as well as speed & consumption variance help to estimate the economic impact on voyage costs.

- Calculating confidence levels by means of ensemble forecasts — track confidence, speed confidence, ETA confidence
- Calculating speed and fuel consumption variance for delta times to required arrival time
- Calculating the vessel’s optimum progress for a scheduled, on-time arrival