

CUSTOMER CASE Norsepower

Norsepower is one of the most innovative companies in the shipping industry, enabling green power to modern ships with **rotor sail solution technology**

BaseN processes **millions of measurements per minute** even in hard, open sea, conditions - in real-time with **100% availability**

Enabling green shipping at global scale

With its full stack Internet of Things (IoT) platform, BaseN takes the complete responsibility for all critical service components without any reliance upon third party cloud, software or even hosting providers. This is one of the key aspects why mission critical customers from various industries, such as the shipping industry, trust BaseN. We bring real time processing and powerful analytics to the big data flows that are generated, e.g. in shipping and smart port data lakes.

Norsepower is a leading manufacturer of rotor sail solutions. Rotor sails need reliable real-time monitoring and information output in varying detail to different stakeholders.

Norsepower considers BaseN as the best fit for their needs. BaseN collects the data on the ship and transmits it near real-time to the platform that processes the complicated parameters of the sail.

Management of the rotor sails is almost fully automated.

BaseN increases productivity, resource optimization and continuous operations. Additionally, BaseN provides the integration and connectivity of all legacy and contemporary hardware and software that is necessary for continuous and secure operations. BaseN enables real-time, bi-directional data flows for the next generation of ships and components, enabling the transformation from digital twins to spimes, the virtual counterpart of any physical thing

WHAT

- Fuel savings in the maritime industry creates cost savings and makes the industry more eco-efficient and sustainable
- Norsepower rotating sails are reborn of old technology to solve today's maritime transport problems

WHY

- Rotor sails reduce fuel consumption of a tanker by 8%
- BaseN Platform further enhances the savings by providing an advanced platform providing real-time data to different stakeholder

HOW

- Norsepower's rotor sail solution provides data to BaseN for
- real-time analysis

BaseN Platform processes these massive amounts of data and produces real-time portals, handles alarms and creates e.g. reports to all stake holders

BaseN Platform for the maritime industry's data lake requirements



BaseN enables real-time, bi-directional data flows for the next generation of ships and components, enabling the transformation from digital twins to spimes, the virtual counterpart of any physical thing.

Ship ecosystem

- a ship's next generation digital twin
- monitoring and control of all individual components (power lines, rotor sails, ventilation, navigation system, cargo, ...)
- ship as an object
- predictive and reactive maintenance
- big data analytics
- forecasts

Smooth communication, increased productivity and optimized resources

Real-time monitoring and management with BaseN Platform provides accurate results enabling Norsepower to collect, analyze, manage and report the data collected from the sails and other sources of enrichment, like current weather, weather forecasts or navigation information of the vessel.

Basen's offering that was built together with Norsepower gives very accurate information for managing the sails and providing related information to all stakeholders.

BaseN's drill down portals give Norsepower the means to early identify any required reactions

Granularity of reporting, both real-time and historic, enables each vessel to have a BaseN portal allowing them to see their sails condition. In general, managing sail operation in normal conditions, recognizing fast the alarm situations and recovering fast to operation are the key advantages of BaseN Platform.

Everything is communication

BaseN has nearly 20 years of experience in data communication monitoring and control. Strong cooperation with low band-width solutions like satellite communication makes BaseN a perfect partner for Norsepower to build a proper and reliable solution for rotor sails.

For more information visit www.basen.net

Twitter: @BaseN_Corp

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