TECHNOMAR SHIPPING INC

SERTICA Case

Technomar Enhances Fleet Reporting with SERTICA VRS

Technomar Shipping Inc. is a Greece-based ship management company specializing in the operation of containerships and bulk carriers. With a commitment to efficiency and regulatory compliance, Technomar manages a modern fleet, ensuring optimal performance and sustainability in a rapidly evolving maritime industry.

SERTICA
BY RINA

Seamless Rollout Across 100 Vessels

Technomar Shipping Inc. has successfully implemented the SERTICA Vessel Reporting System (VRS) across its fleet of 100 vessels, including the 68 containerships operated by Global Ship Lease. The transition to VRS has transformed reporting and compliance management, delivering customized, user-friendly reporting tools to their operations.

The implementation process was not without its challenges. However, through close collaboration with RINA, Technomar was able to optimize system features, resolve initial issues, and create tailored reports to match operational requirements.

"Implementing VRS has been a learning experience, but thanks to close communication with RINA, we have quickly resolved issues, optimized features, and set up the custom reports our teams need," *Chryssa Skiada, Performance Engineer at Technomar.*

"Rolling out VRS across our fleet has reshaped our approach to reporting. We are now well-equipped not only for our current needs but also for adapting to future regulations."

— *Vasileios Chrysinas, Performance Manager at Technomar*

Technomar's tips for implementation

- Set clear objectives and define milestones and goals

- Create a realistic timeline to establish trust between the parties involved in the project

- Allocate extra time for tasks when you go live

- Schedule training sessions at convenient times for users

- Provide hands-on training and practical examples

The Role of Clear Communication

Rolling out a fleet-wide reporting system requires coordination across multiple locations, teams, and stakeholders. Based in Athens, Technomar played a pivotal role in ensuring smooth implementation by fostering transparent communication among teams in Denmark, Italy, and Greece.

"This experience highlighted how crucial clear communication is when implementing a system at scale," says Vasileios. "Navigating multiple teams across different cultures challenged both us and RINA to adapt and iterate at every step."

As the first shipping company to adopt SERTICA VRS, Technomar worked closely with RINA to refine the system, ensuring seamless integration into daily operations.

"Our role in shaping SERTICA VRS has given us a reporting system tailored to our fleet while setting an example for the industry," *adds Chryssa.*
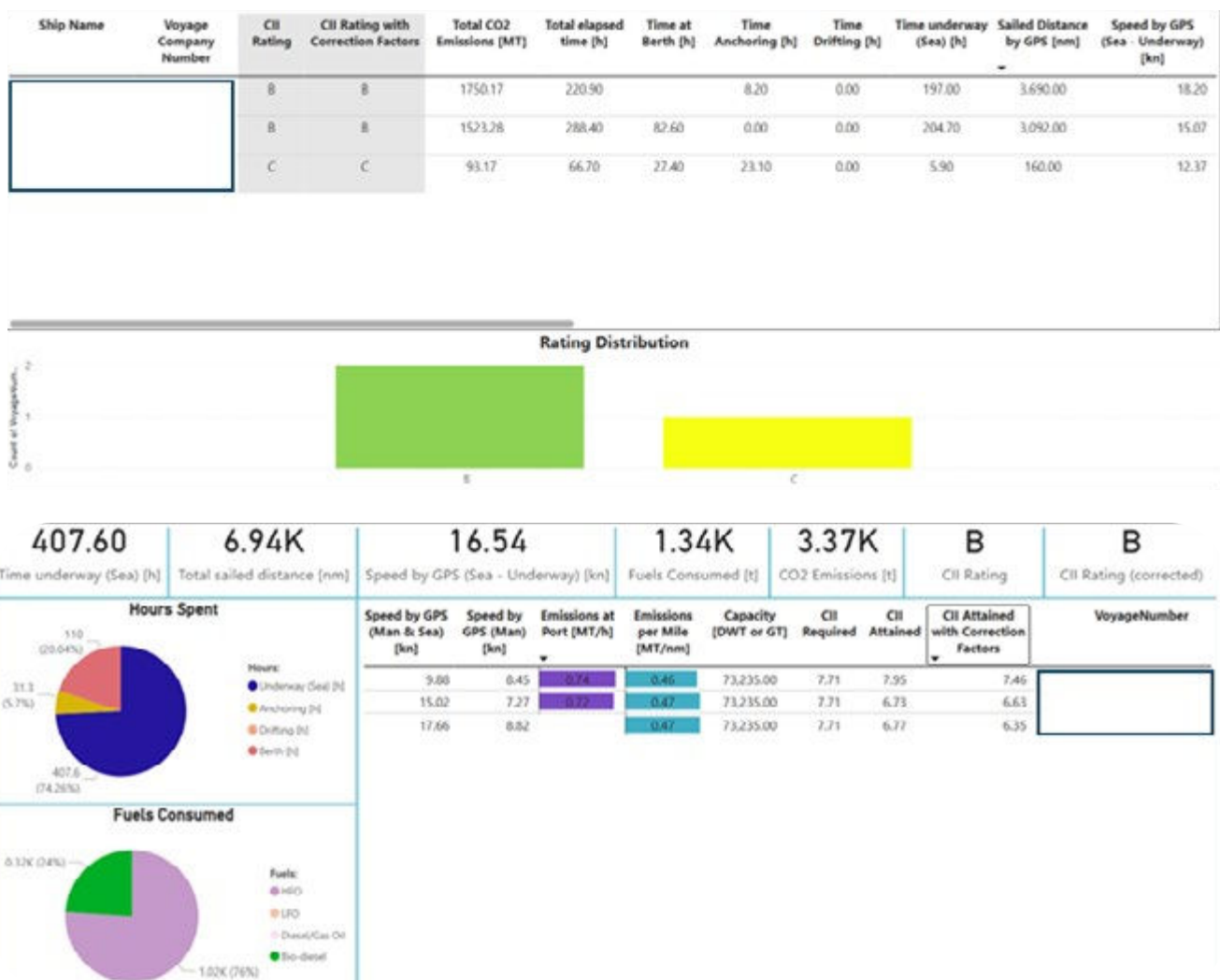
Staying Ahead of Regulatory Changes

Technomar plans to manage all future reporting within SERTICA VRS, streamlining compliance while ensuring ease of use for crew members.

"We initially chose SERTICA VRS to ensure full compliance with current and future regulations, and we can easily get our data verified," *says Vasileios.*

Endorsed by a Recognized Organization (RO) like RINA, VRS guarantees regulatory compliance, accurate data management, and reliable verification. Its adaptability allows Technomar to seamlessly integrate biofuel calculations into their Carbon Intensity Indicator (CII) reports, enhancing emissions tracking and sustainability efforts.

VRS gives the freedom to create your own dashboards tailored to your needs. In the dashboard below you can see some of the key metrics monitored by Technomar. By monitoring distance sailed, fuels consumed and CO2 emissions, they can calculate the CII rating of each vessel.

Ship Name	Voyage Company Number	CII Rating	CII Rating with Correction Factors	Total CO2 Emissions [MT]	Total elapsed time [h]	Time at Berth [h]	Time Anchoring [h]	Time Drifting [h]	Time underway (Sea) [h]	Sailed Distance by GPS [nm]	Speed by GPS (Sea - Underway) [kn]
		B	B	1750.17	220.90		8.20	0.00	197.00	3,690.00	18.20
		B	B	1523.28	288.40	82.60	0.00	0.00	204.70	3,092.00	15.07
		C	C	93.17	66.70	27.40	23.10	0.00	5.90	160.00	12.37

Rating Distribution

407.60	6.94K	16.54	1.34K	3.37K	B	B
Time underway (Sea) [h]	Total sailed distance [nm]	Speed by GPS (Sea - Underway) [kn]	Fuels Consumed [t]	CO2 Emissions [t]	CII Rating	CII Rating (corrected)

Hours Spent

Fuels Consumed

Speed by GPS (Man & Sea) [kn]	Speed by GPS (Man) [kn]	Emissions at Port [MT/h]	Emissions per Mile [MT/nm]	Capacity [DWT or GT]	CII Required	CII Attained	CII Attained with Correction Factors	VoyageNumber
9.88	8.45	0.74	0.46	73,235.00	7.71	7.95	7.46	
15.02	7.27	0.73	0.47	73,235.00	7.71	6.73	6.63	
17.66	8.82		0.47	73,235.00	7.71	6.77	6.35	

> **"We are very pleased with the flexibility and regulatory alignment VRS provides. For example, we recently implemented biofuel calculations in our CII reports, and the setup was intuitive, guiding users through reporting sequences that align naturally with each voyage."**
>
> —— *Chryssa Skiada, Performance Engineer at Technomar*

Navigating FuelEU and EU ETS Compliance with SERTICA

Technomar Shipping also partnered with RINA to tackle the complexities of FuelEU Maritime and EU ETS regulations, particularly in the EU's outermost regions such as the Canary Islands, Madeira, the Azores, and French overseas territories like Réunion and Martinique. These regions have specific regulatory requirements that differ from mainland Europe, adding layers of complexity to compliance efforts.

"The biggest challenge was understanding the differences between FuelEU and EU ETS regulations, especially in the outermost regions," *explains Chris Pallis, Performance Engineer at Technomar.* **"These regulations have distinct enforcement mechanisms, reporting structures, and compliance criteria, making it difficult to align our processes while accounting for exemptions and regional considerations."**

RINA provided detailed guidance, enabling Technomar to navigate these regulatory differences with confidence. Through customized compliance monitoring and advanced data analysis in SERTICA, Technomar optimized fuel consumption while ensuring full adherence to emissions limits.

"With RINA's support, we achieved full compliance with both regulations, improved fuel efficiency, and enhanced operational performance," adds Chris Pallis. "This partnership allowed us to overcome regulatory complexity while maintaining both sustainability and operational excellence across all regions where we operate."

A Future-Ready Reporting System

By implementing SERTICA VRS, Technomar has significantly enhanced its reporting capabilities, reduced crew workload, and improved compliance efficiency. The ability to customize reports and seamlessly integrate with existing workflows has been a game changer.

"In this challenging transition period of environmental regulations, SERTICA has been our key tool for recording, monitoring, and verifying data. It simplifies reporting for our crew while providing us with a powerful analysis asset. For any company needing to gather, track, and certify environmental data, SERTICA is a high-value investment." *Dimitrios Maliaritsis, Performance Engineer at Technomar.*

With ongoing collaboration between Technomar and RINA, the company remains at the forefront of digital reporting, well-prepared for future regulatory changes and industry demands.

"Our partnership with RINA has been key to the success of this project, and we look forward to further refining our reporting processes with SERTICA VRS,"

—— *Chryssa Skiada Performance Engineer at Technomar*

Reports are being added regularly, but here you can see a list of reports used by Technomar today:

- Voyage Report data

- Biofuel Bunker delivery notes

- Carbon Intensity Indicator - Year

- CII data per voyage

- Latest Noon Reports

- EU ETS Aggregates - Month

- EU ETS Aggregates - Voyage

- EU ETS Aggregates - Year

- Reports with Fuel adjustments

- Fuel EU Aggregates - Year

- IMO DCS Bunker Operations

- IMO DCS Aggregates - Year

- Noon Report calculations

- MRV Aggregates - Month

- MRV Aggregates - Voyage

- MRV Aggregates - Year

- MRV Noon Report aggregates per voyage

- Noon Report calculations

- Noon Report data

- MRV Noon Report aggregates per year

Digitalize **your fleet**

SERTICA is the ultimate all-in-one solution for ship management, enabling shipping companies to optimize maintenance, procurement, HSQE, crewing, performance, vessel reporting, logbooks, and fleet monitoring.

With more than 3,000 vessels running SERTICA, our system continuously evolves to meet industry standards, keeping fleets compliant, efficient, and prepared for current and future challenges.

But SERTICA is more than just software. Built in collaboration with leading shipping companies, it combines a solid technological platform with comprehensive training, seamless implementation, expert project management, and dedicated support.

With SERTICA, you get a trusted partner in fleet digitalization. We go beyond expectations, ensuring your fleet operates at peak performance while meeting regulatory requirements.

Developed by RINA and backed by a global network of 200+ offices and 6,000 industry experts, SERTICA provides the maritime expertise and support needed to optimize your operations.

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