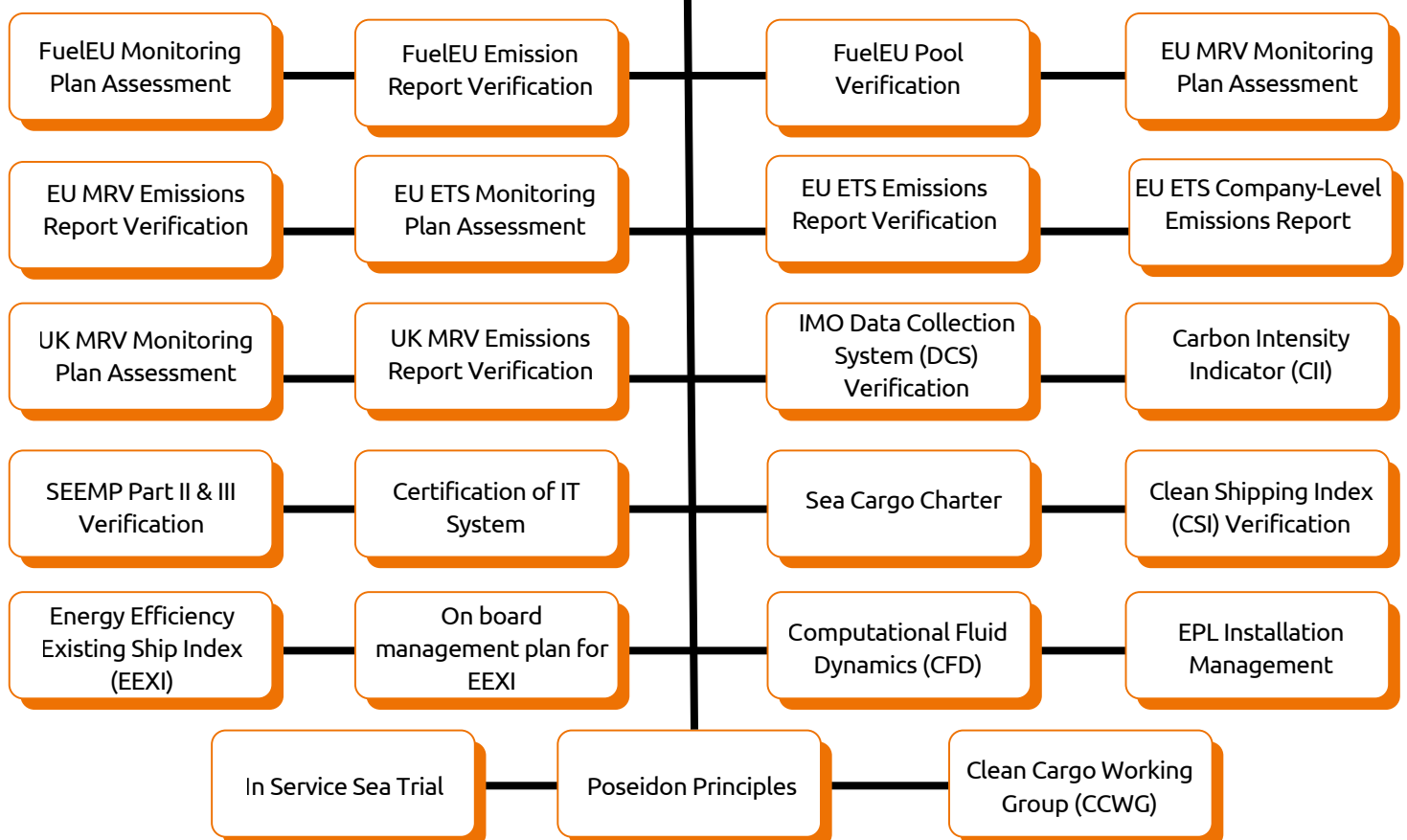




IMPROVE QUALITY. REDUCE RISK.

Normec Verifavia is a global leader in environmental validation, verification, and auditing within the transport and industrial sectors. Our expertise encompasses technical assessments, regulatory training, and advanced compliance evaluation methodologies. Committed to driving a sustainable future, Normec Verifavia guides clients through regulatory compliance, ensuring adherence to global standards and promoting environmental sustainability across diverse industries.

Shipping Emissions & Performances



About Us

Normec Verifavia is a global leader in environmental verification and auditing for the transport and industrial sectors. Committed to integrity and efficiency, we provide accurate, independent, and transparent compliance assessments.

Our expertise supports businesses in meeting international sustainability standards and advancing toward a greener future. With offices in Paris (France) and Chandigarh (India), we operate globally, delivering world-class solutions across the sectors we serve.

Our Flag State Approvals



ST. KITTS & NEVIS
INTERNATIONAL SHIP REGISTRY

Our Class Partners



About Our Emissions & Performances Business Unit

Normec Verifavia's Shipping Emissions & Performance Business Unit delivers essential independent verification services for maritime regulations, including EU MRV, UK MRV, IMO DCS, CII, CSI, EU ETS, and Fuel EU Maritime. Our team of marine engineers and naval architects leverage their expertise to meticulously assess and verify compliance, ensuring responsible operations and improving environmental performance.

Accredited under ISO 17029 and 14065, Normec Verifavia is a pioneer in international GHG Emissions Verification. Partner with us to navigate complex regulations with confidence and demonstrate your commitment to environmental performance in the maritime sector.

FuelEU Monitoring Plan Assessment

FuelEU Monitoring Plan Assessment

FuelEU Monitoring Plan is the first step to outlining how vessels will comply with the FuelEU Maritime Regulation. Ship operators must assess each vessel's energy usage by monitoring, reporting, and verifying the greenhouse gas (GHG) intensity of its fuel consumption, ensuring compliance with fuel standards through a robust Monitoring Plan.

Normec Verifavia supports shipping companies with Monitoring Plan assessments to ensure full regulatory compliance and operational readiness.



Driving Low-Carbon Shipping

The FuelEU Maritime regulation, now in effect, FuelEU is a game-changer for shipping industry. It enforces strict greenhouse gas (GHG) intensity limits on marine fuels to align with the EU's **Fit for 55** and Green Deal initiatives. The goal is to **progressively reduce emissions** from maritime operations, ultimately pushing for a carbon-neutral shipping sector by 2050.

Why Choose Normec Verifavia?

- **Accredited and Independent:** ISO 17029 verification approved by National Accreditation Bodies for FuelEU, ETS, and MRV.
- **Digital & Automated:** Use of digital tools and API-based data transfer for fast, accurate, and seamless reporting.
- **End-to-End & Continuous:** Complete verification solutions across all GHG regulatory needs with continuous monitoring for reliable compliance.

Process

- Monitoring Plan Preparation**
Submit your Monitoring Plan (MP) on THETIS-MRV
- Document Upload**
Upload all relevant documents to the platform
- Plan Submission**
Submit the MP for third-party assessment
- Compliance Review**
Verifiers conduct a detailed MP review
- Assessment Report**
Receive the official Assessment Report upon completion

Get in touch with our team:

-  normecverifavia.com
-  contact.verifavia@normecgroup.com
-  www.linkedin.com

FuelEU Emission Report Verification

FuelEU Emission Report Verification

Under the FuelEU Maritime regulation, ship operators of vessels over 5,000 GT calling at EU/EEA ports are required to submit an annual Emissions Report detailing fuel consumption, GHG intensity, and compliance balance. This report must be verified by an accredited verifiers to ensure completeness, accuracy, and regulatory compliance.

Normec Verifavia provides end-to-end verification services under FuelEU Maritime ensuring regulatory conformity, transparent reporting, and audit readiness for consistent and penalty-free compliance year after year.



Who Needs to Comply and Why It Matters

From 2025, vessels above 5,000 GT calling at EU/EEA ports must comply with FuelEU Maritime requirements, with the first verified FuelEU Emissions Report submitted from 2026 onwards. The report covers greenhouse gas intensity, energy use, and compliance balances, demonstrating alignment with the EU's decarbonisation targets.

Timely and accurate verification is essential, as non-compliance may lead to penalties, increased operational risk, or restricted port access, while verified reporting supports transparency and regulatory credibility.

Why Choose Normec Verifavia?

- **Accredited and Trusted:** COFRAC ISO 17029 accreditation for credible FuelEU & EU MRV verification.
- **Digital & Automated:** Streamlined reporting using advanced digital tools and API-based systems.
- **End-to-End & Continuous:** Complete GHG verification solutions with continuous monitoring for reliable compliance.

Process

- 1 Emission Report Submission**
Submit your FuelEU emissionreport for verification
- 2 Emission Report verification**
Independent data verification and compliance by verifier
- 3 Report Recording**
We verified your report in the FuelEU database
- 4 Compliance & Pooling**
Declare surplus, banking, or pooling for approval
- 5 Document of Compliance**
Receive your FuelEU Compliance certificate

Get in touch with our team:

 normecverifavia.com

 contact.verifavia@normecgroup.com

 www.linkedin.com

FuelEU Pool Verification

FuelEU Pool Verification

The FuelEU Maritime regulation allows companies to pool ships for compliance purposes, letting overperforming vessels compensate for underperforming ones within the same pool. This strategy improves flexibility and cost-effectiveness for meeting GHG intensity targets.

Normec Verifavia independently verifies FuelEU pooling arrangements to ensure compliance with Article 24 of the regulation. We assess the eligibility of participating vessels, review documentation of surplus transfers, and confirm the overall compliance balance. Our verification ensures your pool submissions are accurate, transparent, and in line with FuelEU requirements.



Ensuring Credibility in FuelEU Pool Declarations

FuelEU Maritime allows ship operators to pool vessels for compliance purposes, enabling the transfer of surplus compliance from over-performing ships to those with a deficit. This approach supports strategic fleet-level emissions management and enhances flexibility in meeting annual GHG intensity targets.

Pooling arrangements must be supported by clear contractual agreements and undergo third-party verification. All declarations must be accurate, consistent, and traceable to ensure transparency and regulatory alignment.

Why Choose Normec Verifavia?

- **Accredited & Reliable:** COFRAC ISO 17029 verified for FuelEU compliance.
- **Digital & Automated:** Streamlined reporting with advanced tools and API.
- **Comprehensive & Continuous:** Complete verification with continuous monitoring for reliable compliance.

Process

1 Monitoring Plan Submission
Submit your FuelEU Monitoring Plan for verification

2 Report Recording
record your report in the FuelEU database

3 Annual Report Submission
Send your verified FuelEU Report each year

4 Compliance & Pooling
Declare surplus, banking, or pooling for approval

5 Document of Compliance
Receive your FuelEU Compliance certificate

Get in touch with our team:

 normecverifavia.com

 contact.verifavia@normecgroup.com

 www.linkedin.com

EU MRV Monitoring Plan Assessment

EU MRV Monitoring Plan Assessment

The EU MRV (Monitoring, Reporting and Verification) Regulation requires ships calling at EU ports to monitor and report greenhouse gas (GHG) emissions. It applies to vessels of 5,000 GT and above, and from 2025 also covers offshore vessels of 400 GT and above and general cargo vessels between 400 and 5,000 GT

Normec Verifavia provides independent assessment of Monitoring Plans, verifying methodologies, data collection, and documentation. Our process ensures plans are fully compliant, accurate, and ready for submission to Admin Authority via THETIS-MRV.



EU MRV Compliance Made Simple

The EU MRV Regulation is a cornerstone of the EU's strategy to reduce shipping emissions. It mandates shipowners to implement a Monitoring Plan that ensures accurate, transparent, and consistent reporting of CO₂ emissions and fuel consumption.

A strong Monitoring Plan reduces compliance risk, supports operational efficiency, and ensures audit-readiness. Normec Verifavia supports ship operators in maintaining robust, regulator-aligned plans, providing guidance, verification, and updates whenever operational changes or new emission sources occur.

Why Choose Normec Verifavia?

- **Accredited & Trusted:** COFRAC ISO 17029 & 14065 verification.
- **Digital & Automated:** Streamlined reporting with advanced tools and API.
- **Efficient & Reliable:** Timely, accurate, and fully compliant MRV submissions.

Process

1

Submission & Preparation

Monitoring Plan submitted via THETIS using the Annex I template

2

Documentation Review

We assist in collecting and reviewing required documents

3

Audit & Assessment

Thorough evaluation to ensure regulatory compliance

4

Final Report & Submission

Receive assessment report for submission to the Authority

Get in touch with our team:



normecverifavia.com



contact.verifavia@normecgroup.com



www.linkedin.com

EU MRV Emissions Report Verification

EU MRV Emissions Report Verification

The EU MRV Emissions Report is a mandatory annual submission for vessels over 5,000 GT General cargo vessels between 400 & 5000 GT, Offshore vessels above 400 GT calling at EU ports, detailing fuel consumption, CO₂ emissions, and operational data. Normec Verifavia simplifies compliance with automated validation, error detection, and independent verification. Our accredited services help shipowners avoid non-compliance risks while streamlining reporting. With seamless integration into onboard and shore-based systems, we minimize operator workload and ensure flawless submissions to THETIS-MRV. Stay ahead of regulations with Normec Verifavia, your trusted emissions compliance partner.



EU MRV Compliance Essentials

All ships over 5,000 GT General cargo vessels between 400 & 5000 GT, Offshore vessels above 400 GT (regardless of flag) must monitor, report, and verify fuel consumption, GHG emissions, and transport data for all voyages to, from, and between EU/EEA ports, including time at berth. Under the revised EU ETS and MRV Maritime Regulations now in effect, companies must submit verified emissions reports for each ship and aggregated company-level data by 31 March every year. In the event of a company change, a partial verified report must also be submitted for the applicable period.

Why Choose Normec Verifavia?

- **Accredited & Independent:** Certified third-party verification
- **Efficient & Cost-Effective:** Fast, affordable compliance
- **Smart Data Collection:** Streamlined, multi-regulation coverage
- **Accurate Reporting:** Verified ship & company-level emissions

Process

1

Initiate Contact

Reach out to discuss your needs and request a proposal

2

Gather Information

Share your monitoring plan, reports, and documents

3

Verification & Analysis

We assess and verify your data against EU MRV & EU ETS

4

Completion of Verification

Receive your Verification Report and DoC via THETIS

Get in touch with our team:



normecverifavia.com



contact.verifavia@normecgroup.com



www.linkedin.com

EU ETS Monitoring Plan Assessment

EU ETS Monitoring Plan Assessment

The EU Emissions Trading System (EU ETS) applies to ships $\geq 5,000$ GT on voyages to, from, or between EU ports, introducing carbon pricing for verified emissions. General cargo and offshore vessels between 400 and 5,000 GT are expected from 2027. The Monitoring Plan defines how CO₂, CH₄, and N₂O emissions are measured, recorded, and reported, with clear responsibilities and robust procedures.

Normec Verifavia provides independent assessment, verifying methodologies, data accuracy, and regulatory alignment to ensure plans are audit-ready.



EU ETS Compliance Made Simple

Under EU ETS, shipping companies must submit a Monitoring Plan for CO₂ and other GHG emissions from voyages to, from, and between EU ports. Verified emissions determine allowance obligations, making accurate and transparent reporting essential. A strong plan captures all relevant gases, assigns clear responsibilities, and stays updated with operational changes, ensuring timely compliance, cost-effective carbon management, and regulatory confidence.

Why Choose Normec Verifavia?

- **Accredited & Independent:** Certified third-party verification
- **Efficient & Cost-Effective:** Fast, affordable compliance
- **Smart Data Collection:** Streamlined, multi-regulation coverage
- **Accurate Reporting:** Verified ship & company-level emissions

Process

1

Submission & Preparation

Monitoring Plan submitted via THETIS using the Annex I template

2

Documentation Review

We assist in collecting and reviewing required documents

3

Audit & Assessment

Thorough evaluation to ensure regulatory compliance

4

Final Report & Submission

Receive assessment report for submission to the Authority

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www.linkedin.com

EU ETS Emissions Report Verification

EU ETS Emissions Report Verification

Under the EU Emissions Trading System (EU ETS), shipping companies must submit an annual Emissions Report detailing verified CO₂ emissions from voyages to, from, and between EU ports, as well as emissions within EU territorial waters. Normec Verifavia simplifies compliance with automated validation, error detection, and accredited third-party verification. Our services help shipowners avoid non-compliance risks, manage emissions allowances efficiently, and ensure smooth, audit-ready submissions to designated administering authority. With minimal operator/client burden, we support accurate, timely reporting keeping you fully aligned with EU ETS requirements.



EU ETS Compliance Essentials

Under the revised EU ETS, all ships over 5,000 GT must monitor, report, and verify GHG emissions and transport data for voyages to, from, and between EU/EEA ports including time at berth. Verified emissions reports for each vessel and company-level data are due by 31 March annually. In case of company change, a partial verified report is also required.

Normec Verifavia ensures accurate, audit-ready EU ETS emissions reporting through automated checks, expert verification, and seamless support helping you stay compliant while reducing operator effort.

Why Choose Normec Verifavia?

- **Accredited & Independent:** Certified third-party verification
- **Efficient & Cost-Effective:** Fast, affordable compliance
- **Smart Data Collection:** Streamlined, multi-regulation coverage
- **Accurate Reporting:** Verified ship & company-level emissions

Process

1

Initiate Contact

Reach out to discuss your needs and request a proposal

2

Gather Information

Share your monitoring plan, reports, and documents

3

Verification & Analysis

We assess and verify your data against EU MRV & EU ETS

4

Completion of Verification

Receive your Verification Report and DoC via THETIS

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 normecverifavia.com

 contact.verifavia@normecgroup.com

 www.linkedin.com

EU ETS Company-level emission report

Under the EU ETS, shipping companies must submit a company-level emissions report summarizing total verified CO₂ emissions from all vessels under their responsibility by 31 March each year.

Normec Verifavia ensures your aggregated data is accurate and fully compliant through independent verification. Our accredited experts streamline the process from data review to communication with authorities helping you meet deadlines, avoid penalties, and maintain full transparency.



EU ETS Compliance Essentials

The EU ETS Company-Level Emissions Report is a key requirement under the extended Emissions Trading System for maritime operators. It mandates shipping companies to submit verified, aggregated CO₂ emissions data across their fleet, ensuring transparency and accountability at the organizational level.

With stricter regulations, companies must ensure data consistency across all vessels, adhere to strict timelines, and manage allowances efficiently. Inaccurate or delayed submissions may result in compliance failures, financial penalties, and reputational damage.

Why Choose Normec Verifavia?

- **Accredited & Independent:** Certified third-party verification
- **Efficient & Cost-Effective:** Fast, affordable compliance
- **Smart Data Collection:** Streamlined, multi-regulation coverage
- **Accurate Reporting:** Verified ship & company-level emissions

Process

1

Initiate Contact

Reach out to discuss your needs and request a proposal

2

Gather Information

Share your monitoring plan, reports, and documents

3

Verification & Analysis

We assess and verify your data against EU MRV & EU ETS

4

Completion of Verification

Receive your Verification Report and DoC via THETIS

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 contact.verifavia@normecgroup.com

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UK MRV Monitoring Plan Assessment

UK MRV Monitoring Plan Assessment

The UK MRV Monitoring Plan is crucial for ship operators complying with the UK's emissions regulations. It ensures accurate tracking of CO₂ emissions, fuel consumption, and energy efficiency for vessels calling at UK ports. Normec Verifavia provides expert verification, and compliance support to simplify UK MRV requirements. Our trusted services enhance transparency, ensure ease of process, and minimize compliance risks, helping shipowners avoid penalties and contribute to a more sustainable maritime future.



UK MRV Compliance

As the UK operates independently from the EU's MRV framework, ship operators must ensure compliance with the UK's Monitoring, Reporting, and Verification (UK MRV) regulations, which govern CO₂ emissions monitoring for vessels of 5000 GT and above calling at UK ports. The UK MRV Monitoring Plan is a critical document detailing how shipowners will track and report their emissions data accurately.

Why Choose Normec Verifavia?

- **Accredited & Trusted:** UKAS ISO 17029 accreditation ensures credible, impartial verification of your UK MRV monitoring plan.
- **Digital & Automated:** Advanced digital tools and API-based systems streamline data integration and emissions reporting.
- **End-to-End & Efficient:** Complete, structured verification from plan assessment to report approval, ensuring timely and compliant submissions.

Process

- 1 Submission & Preparation**
Monitoring Plan submitted using the Annex I template
- 2 Documentation Review**
We assist in collecting and reviewing required documents
- 3 Audit & Assessment**
Thorough evaluation to ensure regulatory compliance
- 4 Final Report & Submission**
Receive assessment report

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-  normecverifavia.com
-  contact.verifavia@normecgroup.com
-  www.linkedin.com

UK MRV Emissions Report Verification

UK MRV Emissions Report Verification

Following the UK's departure from the EU, the European MRV regulation (EU 2015/757) no longer applies to ships calling at UK ports as of 1 January 2021. In response, the UK introduced its own MRV system, with the first monitoring period beginning on 1 January 2022. This regulation applies to ships of 5000 GT and above and requires the monitoring, reporting, and verification of CO₂ emissions from voyages involving UK ports. Accurate compliance with the UK MRV is essential to avoid penalties and ensure uninterrupted port access.

UK MRV Compliance

The UK Monitoring, Reporting, and Verification (MRV) regulation requires shipowners and operators to accurately track and report their carbon emissions for voyages involving UK ports. Following the UK's departure from the EU, the UK MRV operates independently of the EU MRV but retains similar compliance standards. Non-compliance can result in penalties and operational disruptions, making accurate and timely reporting essential.

Why Choose Normec Verifavia?

- End-to-End Compliance Management
- Cutting-Edge Digital Solutions
- Expert Maritime Support
- Seamless Integration with EU & IMO Regulations
- Risk Mitigation & Cost Efficiency



Process

1

Submit Monitoring Plan

Share your plan and documents with Normec Verifavia

2

Expert Evaluation

We review compliance, risks, and fuel data accuracy

3

Verification & CoC

Receive a verification report and Confirmation of Compliance

4

Final Submission (UK)

We approve the report once uploaded on the UK platform

Get in touch with our team:



normecverifavia.com



contact.verifavia@normecgroup.com



www.linkedin.com

IMO Data Collection System (DCS) Verification

IMO DCS Verification

At Normec Verifavia, our IMO DCS Verification service ensures seamless compliance with the IMO Data Collection System (DCS) by providing accurate, independent verification of fuel consumption reports. We support shipowners and operators meet MARPOL Annex VI requirements efficiently, minimizing compliance risks while ensuring data integrity. Our expertise ensures hassle-free submissions and improving reporting accuracy.

IMO DCS Compliance Made Simple

Under IMO regulations, ships of 5,000 GT and above must annually report fuel oil consumption data, verified under the Data Collection System (DCS). This data also forms the basis for CII (Carbon Intensity Indicator) ratings and must align with SEEMP III requirements. Accurate reporting and timely submission are critical to avoid compliance risks.

We offer end-to-end support for IMO DCS and CII compliance, validating fuel consumption data, ensuring alignment with SEEMP III, and submitting verified reports to flag states. Our automated tools and expert team simplify the process, reduce administrative effort, and deliver reliable, regulation-ready results.

Why Choose Normec Verifavia?

- Seamless Multi-Regulatory Compliance
- Automated & Data-Driven Approach
- Dedicated Industry Experts
- Global Recognition & Trust



Process

1

Develop SEEMP II

Prepare SEEMP II as per the 2022 IMO guidelines

2

Monitoring & Reporting

Track fuel use and voyage data or use our dashboard for easy reporting

3

Verification Report

Receive findings and a Statement of Compliance post-verification

Get in touch with our team:



normecverifavia.com



contact.verifavia@normecgroup.com



www.linkedin.com

Carbon Intensity Indicator (CII)

Carbon Intensity Indicator (CII)

CII Verification is essential for shipowners navigating IMO's decarbonization targets. Normec Verifavia ensures accurate assessment, verification, and compliance, vessels improve efficiency and maintain regulatory standings. With expert guidance and advanced data validation, we go beyond compliance, offering strategic insights to optimize fuel use, lower emissions, and enhance vessel performance. Future-proof your fleet and stay ahead of evolving regulations with our tailored CII verification services.

CII Compliance

Under Resolution MEPC.328(76), effective from 1 November 2022, all cargo and cruise ships ≥ 5000 GT must comply with new MARPOL Annex VI requirements on operational Carbon Intensity Indicator (CII) and enhanced Ship Energy Efficiency Management Plan (SEEMP). The CII, measured in **grams of CO₂ per deadweight-nautical mile**, determines a ship's **annual efficiency rating** from A (best) to E (worst).

Based on IMO DCS data, ships must annually calculate, report, and verify their attained CII against required baselines, which become stricter each year. Correction factors and voyage adjustments are applied as per MEPC.355(78) to ensure fair CII assessments across ship types and trades. Vessels rated D for 3 years or E for 1 year must submit amended SEEMP III with Corrective Action Plan.

Why Choose Normec Verifavia?

- Seamless Multi-Regulatory Compliance
- Automated & Data-Driven Approach
- Dedicated Industry Experts
- Global Recognition & Trust



Process

1

Submission

Send fuel oil reports and CII values to Normec Verifavia

2

Verification

We verify fuel data, distance, and achieved CII rating

3

Recommendation

We submit a verification recommendation to the RO/ flag state

4

Issuance of Statement of Compliance (SoC)

Flag state issues SoC with confirmed CII rating

Get in touch with our team:



normecverifavia.com



contact.verifavia@normecgroup.com



www.linkedin.com

SEEMP Part II & III Verification

SEEMP Part II & III Verification

The Ship Energy Efficiency Management Plan (SEEMP) is a structured and practical tool for helping shipowners manage their environmental performance and improve operational efficiency. Originally introduced in 2013 as SEEMP I, it was further enhanced with SEEMP II in 2018 and SEEMP III in 2022/23.

As a leading provider of maritime sustainability solutions, Normec Verifavia is your trusted partner, guiding you through the intricacies of SEEMP Parts II and III with expert verification services.

Ensuring Compliance, Enhancing Efficiency

SEEMP is more than a regulatory requirement, it's a strategic tool that drives continuous improvement in fuel efficiency and emissions performance. With increasing scrutiny from regulators, financiers, and cargo owners, verified compliance with SEEMP Parts II and III is essential for operational credibility and market access. Independent verification helps ensure that your data is accurate, your strategy aligns with IMO targets, and your vessel is well-positioned for a lower-carbon future.

Why Choose Normec Verifavia?

- **Independent Assurance:** Unbiased verification of SEEMP Part II & III compliance.
- **Global & Local Expertise:** Worldwide accreditation with Flag State-specific knowledge.
- **Efficient Process:** Quick, low-disruption verification workflow.
- **Proven Track Record:** Experienced, accredited SEEMP verification experts.



Process

1

Initiation

Client shares SEEMP documents and verification requirements

2

Planning & Review

Verification plan created; documents reviewed

3

Reporting & Issuance

Draft report shared; final report and CoC issued

Get in touch with our team:



normecverifavia.com



contact.verifavia@normecgroup.com



www.linkedin.com

Certification of IT system

Certification of IT system

In today's maritime industry, digital solutions play a crucial role in emissions monitoring, reporting, and compliance. However, not all IT systems meet regulatory requirements, leaving shipping companies exposed to compliance risks, data inaccuracies, and potential penalties. Normec Verifavia bridges this gap by providing independent and rigorous certification of IT systems, ensuring that shipping companies operate within the frameworks of EU MRV, IMO DCS, CII, EU ETS & FeulEU regulations.

Emissions Data System Compliance

This certification confirms that IT systems meet the **functional and regulatory requirements for emissions data collection, processing, and reporting**. The assessment is based on international standards including ISO 17065, ISO 25051, and ISO 14065, as well as regulatory frameworks specific to EU MRV, UK MRV, and IMO DCS. The service involves a detailed evaluation of software processes, accuracy, data handling, and documentation practices, ensuring your system is fit for compliance and ready for use by shipowners worldwide.

Why Choose Normec Verifavia?

- Proven expertise in EU MRV, UK MRV & IMO DCS (CII included).
- Independent certification aligned with global standards.
- Trusted by leading maritime IT solution providers.
- Recognised across international shipping markets.
- Enhances system credibility and client confidence.
- Supports smooth compliance for end users.



Process

1

Application & Scoping

Define scope and submit documents for review and quotation

2

Assessment

Evaluate technical documents and quality procedures

3

Testing

Test system against regulatory and data requirements

4

Certification (Optional)

Independent review; certificate issued upon compliance

Get in touch with our team:



normecverifavia.com



contact.verifavia@normecgroup.com



www.linkedin.com

Sea Cargo Charter

The Sea Cargo Charter supports shipowners, charterers, and operators measure and disclose carbon intensity in line with IMO decarbonization goals. Normec Verifavia ensures accurate emissions tracking, reporting, and strategic insights to support sustainability targets. Our independent verification simplifies compliance with climate-aligned chartering principles, giving stakeholders a competitive edge in sustainable shipping. Strengthen ESG commitments, enhance transparency, and build trust with reliable, future-proof reporting solutions.



Verified Data for Smarter Chartering

The Sea Cargo Charter enables data-driven decision-making by providing a clear framework to benchmark emissions performance across voyages and fleets. It empowers stakeholders to **evaluate chartering strategies, optimise vessel selection, and identify carbon hotspots in their operations**. With standardised reporting and third-party verification, the Charter ensures comparability and integrity of climate alignment scores, positioning companies to meet investor expectations, regulatory pressures, and evolving sustainability standards in the global maritime supply chain.

Why Choose Normec Verifavia?

- **World's Leading Verification Body:** Trusted for emissions verification under global regulations.
- **Extensive Maritime Experience:** Skilled in accurate maritime data assessment.
- **Independent Third-Party Expertise:** Unbiased and reliable compliance reporting.

Process

1

Data Collection

Collect fuel, emissions, and cargo data as per IMO or EU MRV

2

Climate Alignment Calculation

Use approved methods or third-party calculations

3

Annual Reporting

Submit alignment scores to the Charter Secretariat annually

4

Result Publication

Publish scores in reports to ensure transparency

Get in touch with our team:

 normecverifavia.com

 contact.verifavia@normecgroup.com

 www.linkedin.com

Clean Shipping Index (CSI) Verification

Clean Shipping Index (CSI) Verification

Cargo owners are increasingly seeking shipping partners that are environmentally responsible. The global shipping industry contributes significantly to greenhouse gas emissions, which has prompted calls for action. The Clean Shipping Index (CSI) is a **voluntary initiative** that empowers informed choices by ranking ships based on verified data on their emissions and efficiency. Normec Verifavia provides independent verification, which is crucial for ensuring accuracy and transparency in the maritime industry, fostering trust among stakeholders.



Powering Clean Shipping Credentials

Independent CSI verification enables shipowners to qualify for tax rebates at ports including Sweden, Vancouver, Gothenburg, Prince Rupert, Petroport, and Gävle. The process **assesses a ship's environmental performance, covering emissions to air and water, energy efficiency, and use of cleaner technologies.** Recognised under the latest CSI standard, this verification supports access to financial incentives, enhances sustainability credentials, and contributes to global emission reduction efforts.

Why Choose Normec Verifavia?

- First verifier accredited under the new CSI standard.
- Proven track record with leading global shipping companies.
- Accurate, independent, and reliable verification.
- Enables access to port tax rebates and sustainability incentives.
- Supports environmental leadership and compliance credibility.

Process

1

Data Submission & Agreement

Shipowners submit data and agree to terms

2

Verifier Selection & Access

Verifier is chosen and given data access

3

Comprehensive Audit

Covers contract, office, and vessel checks

4

Certification

CSI certifies verified data

Get in touch with our team:

 normecverifavia.com

 contact.verifavia@normecgroup.com

 www.linkedin.com

Energy Efficiency Existing Ships (EEXI)

Energy Efficiency Existing Ships (EEXI)

The IMO's Energy Efficiency Existing Ship Index (EEXI) regulations mandate new environmental standards for existing ships, presenting both challenges and opportunities. Normec Verifavia's EEXI solutions empower you to navigate these regulations with confidence, ensuring compliance while optimizing performance and minimizing operational impact. By combining deep regulatory knowledge with advanced tools like Computational Fluid Dynamics (CFD) and Overridable Power Limitation (OPL) systems (like EPL & ShaPoLi) supply & Installation services provided by our partners, you can achieve both environmental and economic goals, charting a sustainable course for your fleet.



Understanding EEXI Compliance and Solutions

Effective from January 2023, EEXI enforces tighter CO2 emission limits per transport capacity. Shipowners can comply by using Engine Power Limitation (EPL), which physically restricts engine output, or Shaft Power Limitation (ShaPoLi), an electronic system allowing more flexibility. Other options include technical upgrades like propeller optimization and silicon coatings, as well as alternative fuels such as LNG or biofuels. Failure to comply can lead to costly penalties, detentions, and reputational damage.

Why Choose Normec Verifavia?

- **Proven Experience:** Extensive track record in EEXI compliance and CFD simulations.
- **Reliable Solutions:** Fast, convenient OPL services to ensure compliance.
- **Global Network:** Experts with deep knowledge of maritime regulations and operations.

Process

1

Initial Consultation

We review your fleet profile and outline the EEXI compliance process

2

Data Collection & Analysis

Gather data and calculate EEXI values

3

CFD Simulations (Optional)

Estimate speed and performance using CFD

4

Compliance Strategy Recommendation

Propose suitable compliance path

5

Implementation & Verification

Assist with setup and verify compliance

Get in touch with our team:

 normecverifavia.com

 contact.verifavia@normecgroup.com

 www.linkedin.com

Onboard Management Manual for OPL

Normec Verifavia offers an Onboard Management Manual (OMM) addressing the complexities of achieving Energy Efficiency Existing Ship Index (EEXI) compliance through Existing Ship Overridable Power Limiters (EPL/ShPoLi). Adhering to stringent regulations outlined in **IMO Resolution MEPC.335(76)**, our plan offers a comprehensive framework for compliant and efficient OPL operation.

EPL/ShPoLi Compliance Support for EEXI

The Onboard Management Manual (OMM) for EPL/ShPoLi is essential for demonstrating compliance with the IMO's EEXI regulation. It outlines procedures for the safe operation, override conditions, and record-keeping of engine or shaft power limiters.

This service ensures that vessels meet EEXI requirements under MEPC.335(76), with clear documentation, alignment to technical standards, and readiness for surveys, all while maintaining operational flexibility.

Why Choose Normec Verifavia?

- **Confident Compliance:** Aligned with regulations, our OMM minimizes compliance risks and facilitates accurate record-keeping for smooth reporting and audits.
- **Prioritized Safety:** Defined procedures for activation, deactivation, and emergency response to mitigate potential safety risks associated with EPL/ShPoLi operation.
- **Streamlined Processes:** Transparent record-keeping simplifies compliance reporting and audits for regulatory authorities.



Process

1

Discuss & Customize

Connect with us to tailor the OMM for your vessel and EPL/ShPoLi setup

2

Implement & Support

Get the final OMM, crew guidance, and ongoing expert support

3

Approval

Ensure updates align with Class Society requirements

Get in touch with our team:



normecverifavia.com



contact.verifavia@normecgroup.com



www.linkedin.com

Computational Fluid Dynamics (CFD)

Computational Fluid Dynamics (CFD) plays a pivotal role in the maritime industry, offering precise speed-power estimates for vessels. At Normec Verifavia, we utilize CFD analysis to facilitate the accurate determination of a ship's actual reference speed, crucial for EEXI compliance evaluations. This approach not only aligns with regulatory demands but also enables the effective evaluation of Energy Saving Devices (ESD) for retrofitting strategies, ensuring compliance with EEXI requirements.

Improve EEXI Accuracy with CFD Simulations

Computational Fluid Dynamics (CFD) offers a cost-effective and precise alternative to towing tank tests, especially when actual sea trial data at EEXI draft is unavailable. By simulating ship-specific speed-power curves, CFD helps estimate a more accurate reference speed (V_{ref}), leading to a lower and more favorable EEXI value compared to default formulas. It also supports EEXI calculations for Energy Saving Device (ESD) modifications, validating their impact on vessel performance through reliable, calibrated simulations.

Why Choose Normec Verifavia?

- **Expert Knowledge:** Specialists in EEXI compliance with hands-on experience in EPL and ShaPoLi systems.
- **End-to-End Service:** From system selection to installation and training, everything handled for you.
- **Trusted Experience:** Proven track record with global shipowners and strong ties to top equipment suppliers.



Process

1

Data Collection

Structural and hull shape data is gathered

2

3D Model Generation

A digital 3D hull model is created

3

CFD Simulation

Meshing is applied and CFD analysis is performed

4

Reporting

Results are compiled into a detailed test report

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EPL Installation Management

EPL Installation Management

With the enforcement of the IMO's EEXI regulation, shipowners must adopt technical solutions like Engine Power Limitation (EPL) or Shaft Power Limitation (ShaPoLi) systems to meet compliance requirements. These systems help reduce a vessel's carbon footprint by capping engine power output, while still allowing override in emergencies. Selecting the right solution, mechanical or electronic and ensuring it's properly installed and documented is crucial to avoid delays, survey issues, and unnecessary operational limitations. This is where expert guidance and end-to-end support become vital.



End-to-End EPL/ShaPoLi Installation Support

This service offers complete support for the selection, supply, and installation of EPL or ShaPoLi systems tailored to your vessel's needs. Whether opting for the simplicity of Mechanical EPL or the advanced functionality of ShaPoLi, the process is managed end-to-end, including procurement, installation, documentation, and crew training, to ensure smooth, survey-ready EEXI compliance with minimal disruption.

Why Choose Normec Verifavia?

- **Expert Knowledge:** Specialists in EEXI compliance with hands-on experience in EPL and ShaPoLi systems.
- **End-to-End Service:** From system selection to installation and training, everything handled for you.
- **Trusted Experience:** Proven track record with global shipowners and strong ties to top equipment suppliers.

Process

1

EPL/ShaPoLi Selection
Choose the right system based on your needs

2

Procurement and Planning
System sourced and installation planned

3

Installation and Commissioning
Installed and tested by expert engineers

4

Crew Training and Support
Crew trained for safe use, with continued support

Get in touch with our team:

 normecverifavia.com

 contact.verifavia@normecgroup.com

 www.linkedin.com

In Service Sea Trial

In the wake of EEXI compliance deadlines, Normec Verifavia offers a comprehensive In-Service Sea Trial service, enabling precise reference speed determination and potentially reduced Overridable Power Limitation (OPL) requirements. This page delves into the technical intricacies, benefits, and considerations associated with this crucial service.

Speed-Power Curve & EEXI Support

- **Trial Conditions:** Adherence to established standards like ISO 15016-2015 is crucial for accurate data collection. Calm seas, minimal wind, and specified draught are necessary.
- **Data Acquisition:** Calibrated instruments meticulously capture speed, engine power, fuel consumption, and other relevant parameters.
- **Data Analysis:** Our experts meticulously analyze the collected data, generating a speed-power curve endorsed by major classification societies.
- **EEXI Calculations:** We integrate the verified curve into your EEXI calculations, potentially leading to reduced OPL requirements.

Why Choose Normec Verifavia?

- **Global Reach:** Swift response and execution worldwide, minimizing vessel downtime.
- **Tailored Solutions:** Custom trial plans based on vessel specifics and EEXI goals.
- **Proven Expertise:** 500+ vessels supported with expert-led trials and CFD services.



Process

1

Trial Execution

Run trials under ISO-compliant conditions

2

Data Analysis

Collect and analyze speed-power data

3

EEXI Integration

Use results to support EEXI and reduce OPL

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normecverifavia.com



contact.verifavia@normecgroup.com



www.linkedin.com

Poseidon Principles

Poseidon Principles

Poseidon Principles is a framework for **Banks/Financial institutions** to use their influence as a major capital provider to the shipping industry to support the objective of IMO GHG (Green House Gases) reduction by 50% by 2050.

Normec Verifavia offers trusted expertise in data collection, alignment calculations, and independent verification, empowering you to confidently navigate these principles and contribute to a greener maritime future.

Climate Alignment & Reporting

The Poseidon Principles offer a **voluntary framework** for financial institutions to assess and disclose the climate alignment of shipping portfolios. Applicable to credit products secured by vessels over 5,000 GT under the IMO DCS, the process requires **verified emissions data and climate alignment calculations**. With shipowner consent, this data, along with the Statement of Compliance, can be collected and assessed internally or by a nominated third party. Signatories must submit their alignment scores by November 30 and publish them annually to promote transparency and decarbonization progress.

Why Choose Normec Verifavia?

- Trusted verification partner with global flag accreditations.
- Experts in IMO DCS data and climate alignment calculations.
- Scalable solutions for accurate, portfolio-level reporting.



Process

1

Assess vessel performance

Calculate AER using verified IMO DCS data

2

Compare to trajectory

Match AER against decarbonization targets

3

Evaluate portfolio (optional)

Calculate fleet-wide climate alignment

4

Enhance transparency

Submit and share annual alignment reports

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 contact.verifavia@normecgroup.com

 www.linkedin.com

Clean Cargo Working Group (CCWG)

Clean Cargo Working Group (CCWG)

Normec Verifavia, as an independent verifier can verify your submission to the CCWG (CO₂ and SO_x) against the requirements of the CCWG Carbon Emissions Accounting Methodology as it became mandatory starting from the 2017 data collection process (based on 2016 data) to guarantee the quality of the data reported.

CCWG recently updated the verification rules in the Procedure and guidance for verifying the CO₂ and SO_x emissions data submission (v2.0, September 2016) which says that the verification must be conducted by the ISO 14064-3 standards to reach a limited level of assurance.



Streamline CCWG & EU MRV Verification

Conducting CCWG and EU MRV verification together streamlines the process by combining audits, reducing duplication, and easing the administrative load. Both frameworks assess similar data and procedures, allowing shared inputs like fuel data, IT systems, and staff interviews to serve both purposes. This approach ensures consistency, saves time, and results in both the CCWG verification opinion and the EU MRV report.

Why Choose Normec Verifavia?

- **Build Trust & Transparency:** Independent verification shows your commitment to accurate reporting and stakeholder confidence.
- **Benchmark Performance:** Standardized data helps identify efficiency gains and emission reductions.
- **Gain Competitive Edge:** Position your company as a sustainability leader and attract conscious partners.

Process

1

Initial Review

Check documents and test data in the Turnkey platform

2

On-Site Audit

Observe processes, interview staff, and sample vessel data

3

Final Review & Report

Review final data and issue audit findings

4

Verification & Certification

Receive the CCWG verification certificate

Get in touch with our team:

 normecverifavia.com

 contact.verifavia@normecgroup.com

 www.linkedin.com



GET IN TOUCH WITH US!



Mr. Nicolas Duchêne
President

✉ nicolas.duchene@normecgroup.com

☎ +33 666 537 597



Mr. Yuvraj Thakur
VP Commercial and Managing Director

✉ yuvraj.thakur@normecgroup.com

☎ +91 8146 063 968



Mr. Rajat Bishnoi
Business Unit Director
Shipping Emissions & Performance

✉ rajat.bishnoi@normecgroup.com

☎ +91 9876 706 492

SCAN TO CONNECT



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contact.verifavia@normecgroup.com

www.normecverifavia.com