

Guidelines for Energy Audits for Shipping

These guidelines apply to the application of Danish law No. 345 of April 8th, 2014 and statutory order No. 1382 of November 29th, 2018 on obligatory energy audits for large enterprises. The Danish regulations implement the EU directive 2012/27 on energy efficiency, which requires that large enterprises conduct energy audits every four years, the first one by December 5th, 2015.

The following are specific guidelines related to shipping. Please note that the Order contains other generally applicable provisions, such as exceptions regarding ships based on tonnage. A courtesy translation of the Order can be found here:

The company holding a Document of Compliance (DOC under the ISM Code) is responsible for ensuring energy audits of ships with a Safety Management Certificate (SMC under the ISM Code) referring to said DOC.

1. Companies which implement and maintain a certified energy management system (ISO 50001) can comply with the requirement to carry out energy audits by sending the auditor report for certification/recertification to energisynd@ens.dk.
2. Companies which implement and maintain an environment management system (ISO 14001) may comply with the requirement to carry out energy audits if the management system includes an energy review as described in section 6.3 of ISO 50001. The auditor report for certification/recertification shall be sent to energisynd@ens.dk.
3. Companies without the above-mentioned management systems can base their energy audits on Ship Energy Management Plans (SEEMP) in accordance with Resolution MEPC.213 (63) under the auspices of MARPOL.

The energy audit report should be based on EN 16247-1, section 5.6, or similar with specific focus on:

3.1. General

3.1.1. Description of methods for implementing the audit, persons involved in conducting the audit, the approval of the audit report by company leadership

3.1.2. Description of the company's aggregate energy consumption for different activities of the company, such as shipping, road transport, buildings and processes in Denmark.

3.1.3. If energy consuming units are excluded from the audit, the reasons for such actions must be justified (insignificant energy consuming devices or systems where the sum of these entities energy consumption represents at most 10% of its total energy consumption may be excluded from the audit).

3.2. For each vessel and aggregate for fleet

3.2.1. Description of aggregate energy consumption in relation to propulsion and auxiliary uses (lighting, ventilation, pumps, etc.). If possible, the energy consumption should be assessed in relation to Energy Efficiency Operation Indicators (EEOI).

3.2.2. Description of proposed/identified measures to improve energy efficiency and expected savings.

3.2.3. Description of any goals.

3.3. Qualifications of external and internal experts/auditors (Statutory order, § 8 and §9).

3.3.1. Companies may utilize external auditors, such as recognized class societies, which have been accredited by DANAK or similar accreditation organization

3.3.2. Companies may instead utilize internal auditors or experts, if they meet qualifications for accreditation or otherwise can document adequate experience by way of CV to be included in the audit report.