

— FLEET MONITORING PLATFORM

The whole fleet, in one view.

Seafy IoT brings the data of every ship into one console: consumption, energy, tank levels and system alarms. We start from a fleet assessment and configure the solution around the technical and operational characteristics of each vessel.

Without timely data, action comes too late.

Consumption and operating parameters are often reconstructed only at the end of the crossing, while faults surface once they have already had an impact. Without current, shared data the shore team cannot compare ships, spot problems in time or plan the work.

01

Consumption analysed late

Fuel and energy are assessed after the fact, with limited comparison across ships, routes and periods.

02

Unplanned downtime

A fault detected late can turn into emergency work, with higher cost and operational impact.

03

Limited visibility from shore

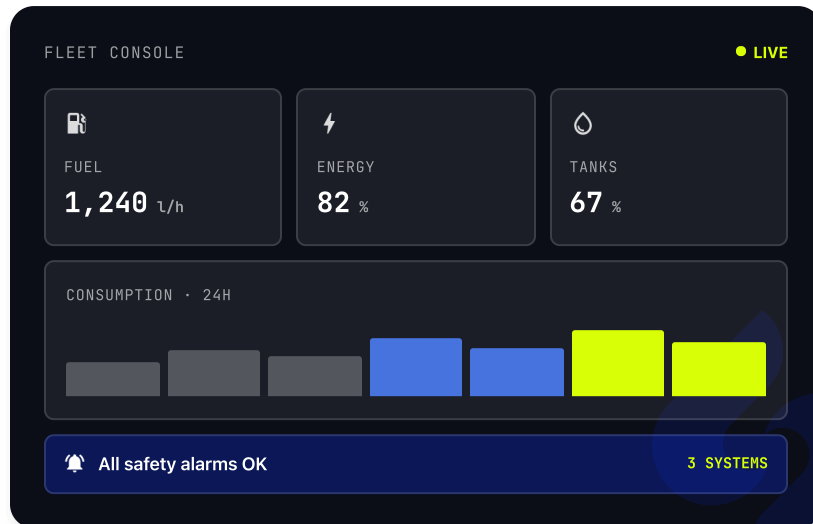
Fleet decisions are made without a current, consistent view of the data coming from the ships.

— THE SEAFY SOLUTION

Onboard data. Fleet view.

Seafy IoT is the **onboard IoT platform** that collects and normalises data on consumption, energy, tanks and onboard systems, making it comparable in a single fleet console. The information is available ashore whenever the ship is connected, while collection continues locally even with no connectivity.

- ✓ One console for every ship, with consistent, comparable data
- ✓ Faults and alarms flagged promptly to support intervention
- ✓ Continuous collection on board, connection or not



No standard kit. Only what is needed.

We do not start from a predefined kit. We analyse the systems, protocols, technical characteristics and operational priorities of each vessel, then define what to connect and in what order, based on the benefits expected.

01

Assessment per ship

We survey the systems, protocols, existing equipment and technical characteristics of each vessel.

02

Priorities and expected benefits

We define what to connect, in what order and with what operational and financial goals.

03

Retrofit and integration

We connect the nodes to the existing systems, using the protocols already on board.

04

Fleet console

We standardise data and alarms for monitoring and for planning the work from shore.

Clearer data to reduce consumption and downtime.



Consumption under control

Current data on fuel and energy, comparable by crossing, period and ship.



Planned maintenance

Data and fault history help schedule work in port, reducing the risk of unplanned downtime at sea.



Centralised alarms

Bilge, smoke, gas and blackout brought into one view, with notifications ashore too.



Offline-first and compliant

Local operation even with intermittent satellite connectivity, on an architecture designed in line with IACS E26 and E27.

— CONSUMPTION

**The biggest cost item,
at last measurable.**

REAL-TIME MONITORING

● Live

⚡ **Energy** 82%



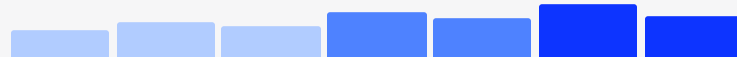
🛢️ **Fuel** 1,240 l/h



💧 **Tanks** 67%



CONSUMPTION · 24H



Act sooner. Plan better.

Seafy IoT detects faults while the ship is in service and centralises the critical alarms in one view. The technical team can weigh priorities, schedule work at the best moment and reduce the risk of unplanned downtime at sea.

Predictive maintenance

 **Engine 1 · overhaul**
Scheduled in 120 h

 **Filters · replacement**
Completed

 **Generator · fault**
Check recommended

Centralised alarms

 **Bilge** OK
Level within range

 **Smoke / gas** OK
No alarm

 **Electrical supply** OK
Normal

It integrates with what is already on board.

Seafy IoT connects to the existing systems through the main onboard protocols, including NMEA 2000, Modbus, CAN/J1939 and AIS/GPS. The retrofit approach makes it possible to acquire and standardise the data without replacing systems that still work.

The offline-first architecture ensures local continuity even with no connectivity and is designed in line with the IACS E26 and E27 cybersecurity requirements.

↕ NMEA 2000

🏢 Modbus

↔ CAN / J1939

🚢 AIS / GPS

🔌 Offline-first

🛡️ IACS E26/E27

A fleet that is more measurable, more efficient, more governable.

The solution is sized to each vessel's needs and managed consistently at fleet level.
The owner invests only in the connections that are genuinely useful, compares
consistent indicators and plans the work through a single partner.



Measurable consumption

Fuel and energy become data
comparable by ship, route
and crossing.



Work planned in port

Faults are identified early, allowing work
to be scheduled at the best moment.



A fleet standard

Consistent indicators on every ship
allow more reliable comparison and
faster decisions.



Targeted retrofit

The existing systems stay in service:
we connect only those that deliver a
concrete benefit.

— THE FIRST STEP

Let us start from your fleet.

We analyse the systems, data and operational priorities of your ships.
We identify what is worth connecting, define the order of the work
and estimate benefits and investment before any retrofit begins.

[Schedule a meeting](#)

[Request more information](#)