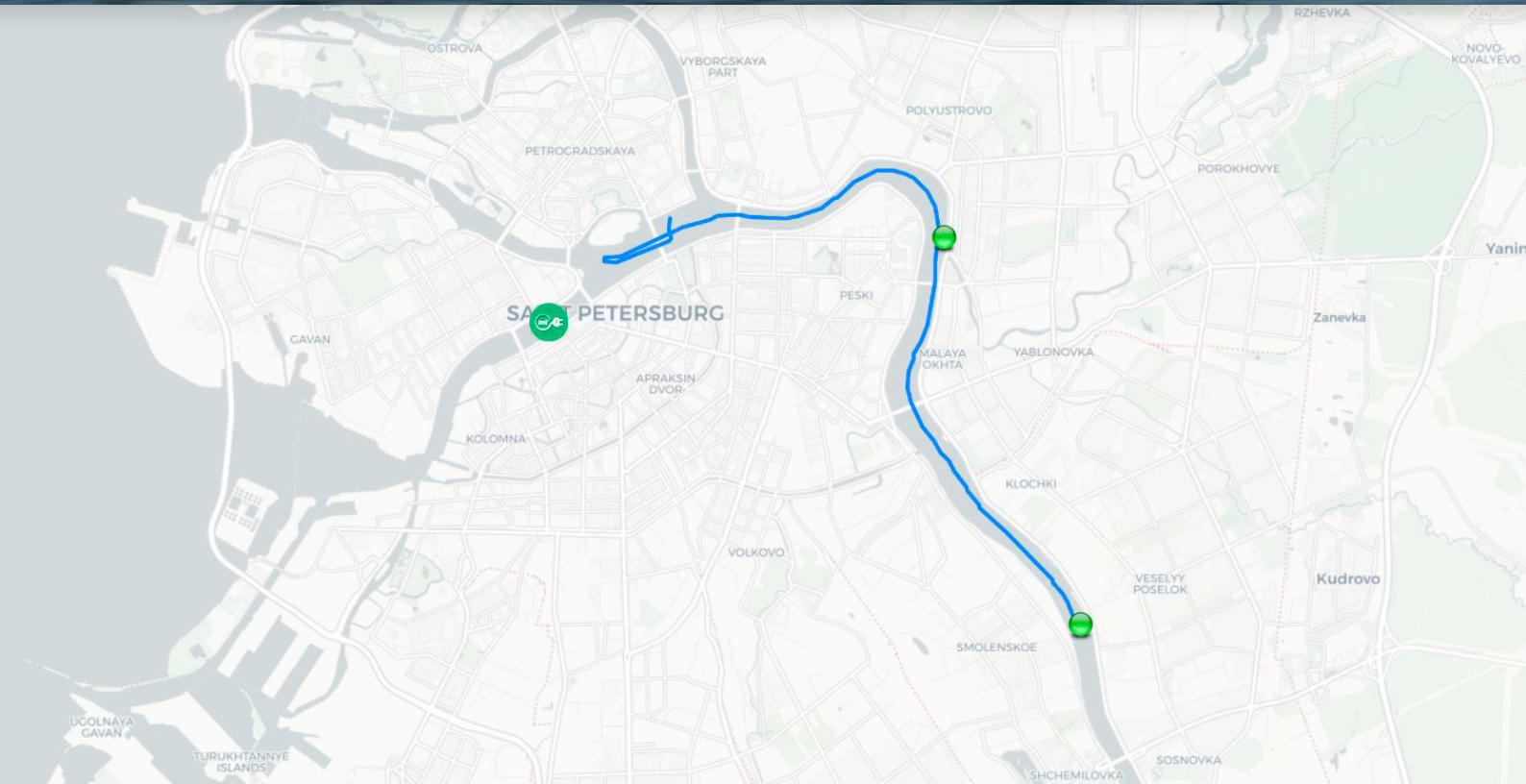


Monitoring, tracking and service system

RUMB



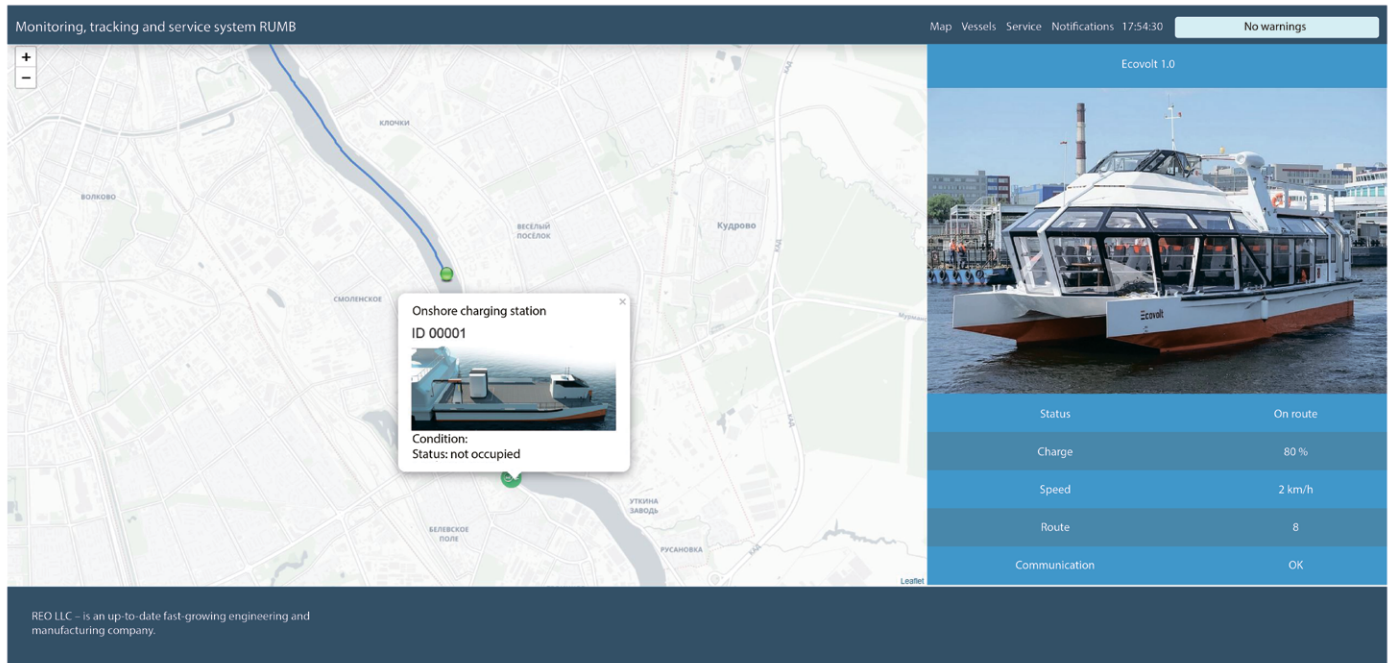
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Description

Monitoring, tracking and service system *RUMB* fully ensures continuous tracking and monitoring of the status and location of the electric vessels connected to the system. *RUMB* performs data to ship owners in real time and enables to deal with any unexpected situations remotely within the shortest time.



Main screen of Monitoring, tracking and service system *RUMB*

Applications

Our software collects, stores and processes large amount of navigation and telemetric data with an option to create cloud services.

Main applications:

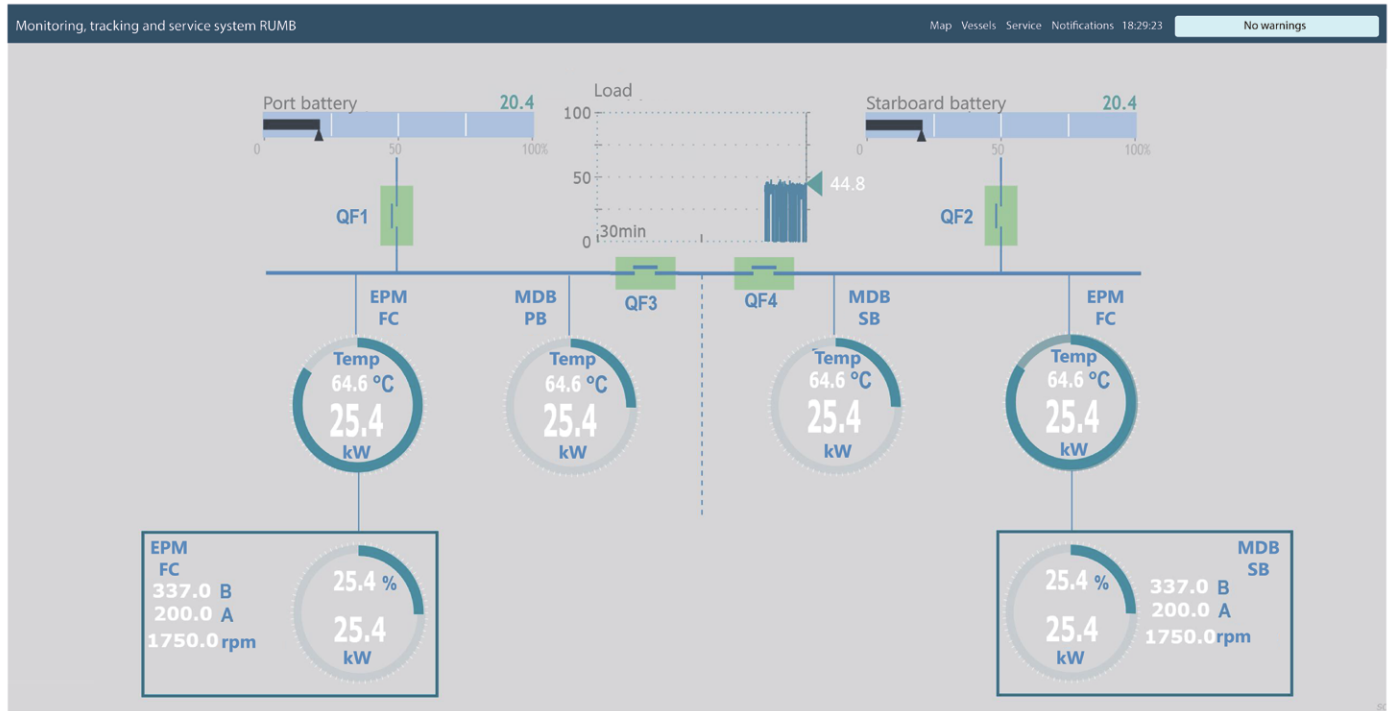
- ▀ *sea and river transport;*
- ▀ *monitoring system* of mobile and stationary objects with remote control; the vessel data is displayed on the electronic chart by means of navigation equipment;
- ▀ *data processing and generation* of multifunctional visual reports.

Smart navigation systems enable to increase efficiency of vessels, notify of upcoming service maintenance and potential risks providing a list of preventive activities.

Onshore charging stations are automatic charging systems for the electric vessels. *RUMB* includes a module to control onshore charging stations providing remote service, control system firmware upgrade, charge control, and control of economic parameters of the power system.

Control of united electric power system TRANIT

Full control of united electric power system *TRANIT* is carried out on one screen providing monitoring of all parameters and status of each element. Increased efficiency of ship's power system. Notifications of requisite technical service. Remote software update.



Monitoring of united electric power system *TRANIT*

Features

- Tracking module is designed to display objects on the electronic chart together with geofences, routes, travelled distance, etc. Any chart-making services may be used within the system.
- Monitoring module is designed to control and display parameters of the electric vessel including Online mode.
- Service module enables to process and analyze monitoring module data, reveal potential emergencies, prevent accidents, generate a list of preventive measures, along with the vessel settings (configuring parameters for automated control systems, etc.).
- Control module of battery status – Online BMS (Battery Management System) operates with the vessel BMS and collects detailed data on battery status, temperature and voltage, calculated battery life cycle and expected life.

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