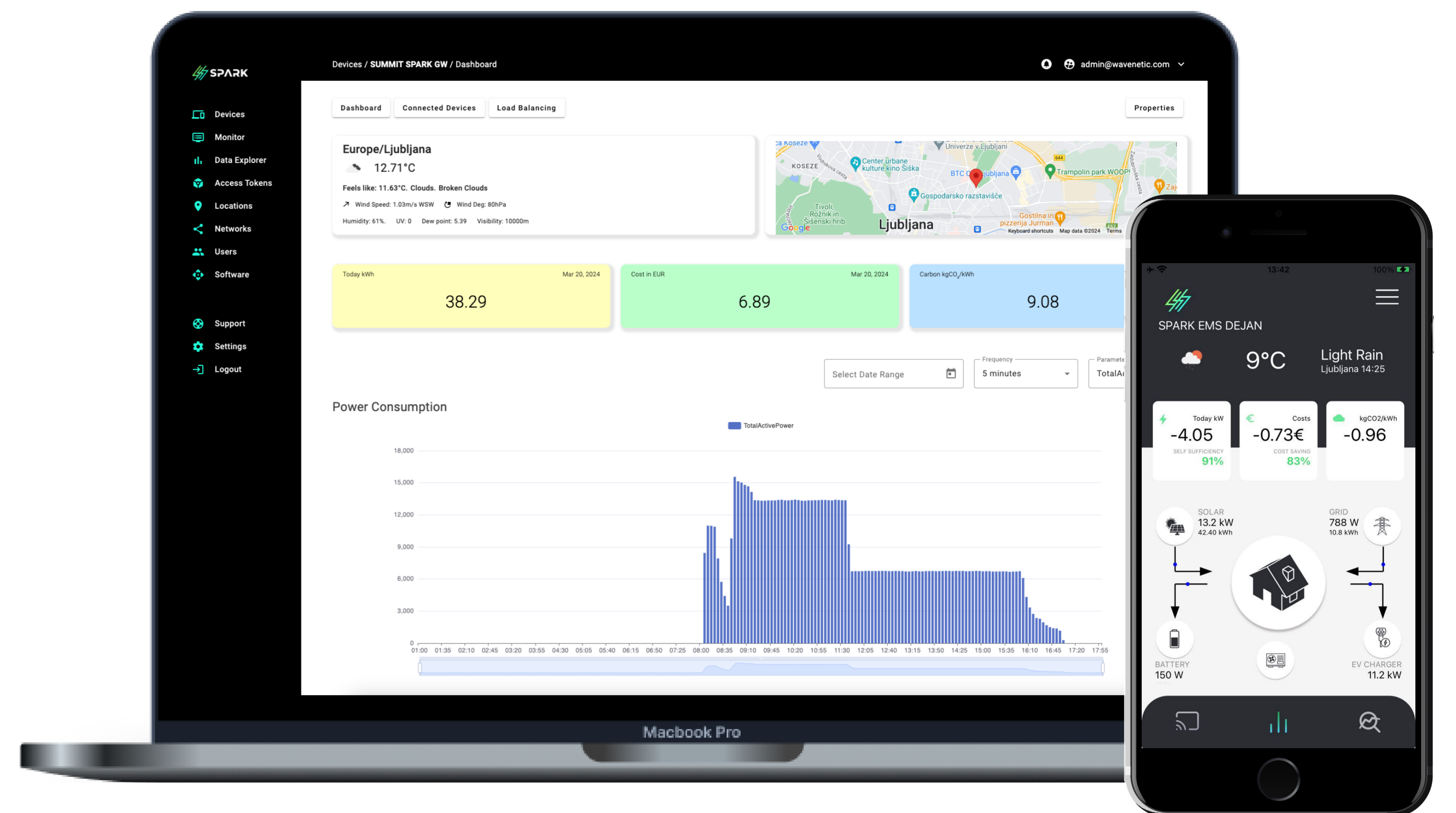


Spark Grid Case study



Project description

The EMS (Energy Management System) optimizes energy use from solar, grid, batteries, heat pumps, and EV chargers via a mobile app. It enables real-time monitoring and control for efficient energy management, reducing grid dependence, and enhancing sustainability. This system not only cuts costs but also supports eco-friendly energy habits, offering a smart solution for reducing carbon footprint and energy bills.

Client goals:

The EMS leverages a mobile app to optimize energy from solar, grid, batteries, heat pumps, and EV chargers, offering real-time control and monitoring.

This system aims to reduce grid dependency, lower energy costs, and enhance sustainability, providing an easy-to-use tool for eco-friendly energy management and reduced carbon footprint.

Technology stack:

Angular, React Native, Typescript, Bluetooth, REST API.

Tech concept

The EMS Web Portal, built with Angular, integrates with a REST API for managing energy resources. The mobile app, developed in React Native, supports iOS and Android with Bluetooth and WiFi connectivity for device control. Both use smart technology to ensure seamless energy monitoring and management, offering a unified user experience across web and mobile platforms.