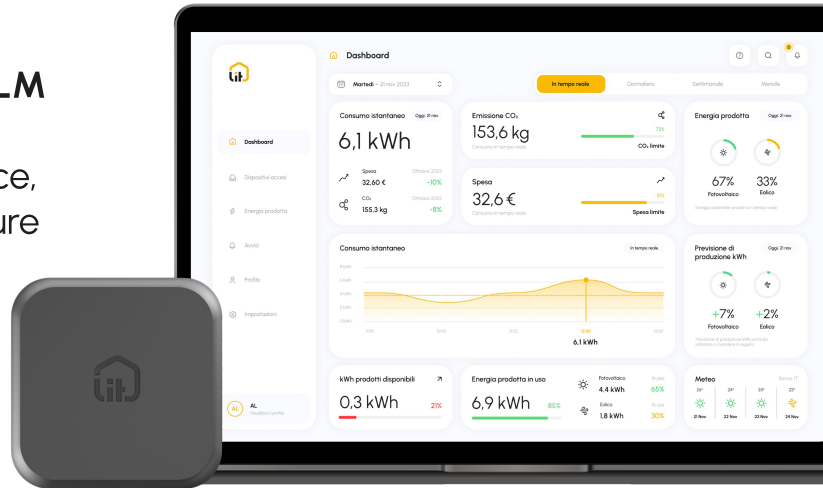**CSRD Compilant**

lit offers office energy monitoring using **NILM technology based on Machine Learning.**
It measures the consumption of each device, providing data on kWh, CO₂ and expenditure via dashboard.

It monitors the switch-on status in real time, reports faults and allows control of home automation devices via the dashboard.
It also downloads data on energy used with a simple click in the format of your choice.

Functionality

Direct measurements
The solution measures current and voltage, calculates active and reactive power, and reports the instantaneous active power of the building. It also calculates the CO₂ emitted and the cost in Euro based on the user's contract.

Emissions and energy costs
The solution calculates the CO₂ emitted and Euros spent per device, based on the cumulative consumption derived from the instantaneous consumption predicted by the disaggregation algorithm.

Real-Time Monitoring and Notifications
The dashboard shows the consumption status of the office and recognised devices.
Notifications inform the user about important data.

Monitoring Obsolescence and Malfunctions
The solution analyses the predicted consumption of devices to assess their obsolescence and detect anomalies, using historical data.

Home automation integration
Home automation device APIs, including Matter I, are integrated for remote control of devices via the dashboard.

SDK and API
The SDK under development allows modular integration with other home automation solutions and the creation of customised monitoring solutions.

Save the planet by starting with your wallet