



lit offers energy monitoring using **NILM technology based on Machine Learning**. It measures the consumption of each device, providing kWh, CO<sub>2</sub> and expenditure data via app.

It monitors the power status in real time, reports faults and allows control of home automation devices via app.



## 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 CO<sub>2</sub> emitted and the cost in Euro based on the user's contract.



### Monitoring Obsolescence and Malfunctions

The solution analyses the predicted consumption of household appliances to assess their obsolescence and detect malfunctions, using historical data.



### Emissions and energy costs

The solution calculates the CO<sub>2</sub> emitted and the Euros spent per appliance, based on the cumulative consumption derived from the instantaneous consumption predicted by the disaggregation algorithm.



### Home automation integration

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



### Real-Time Control and in-app notifications

The smartphone app shows the consumption status of the building unit and recognised appliances. Notifications inform the user about important data.



### SDK and API

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

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