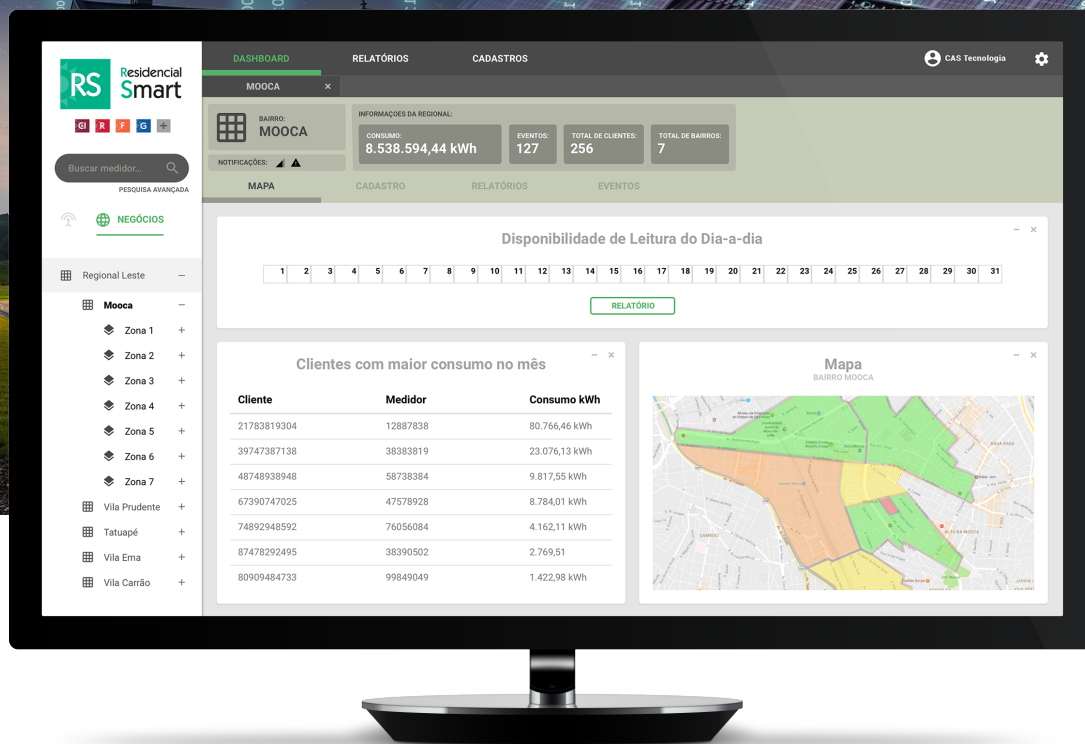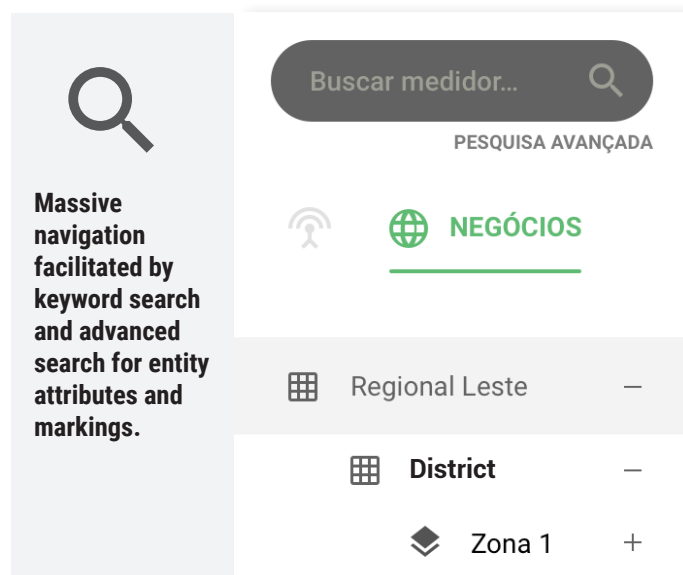# Hemera Residential Smart

Multi-tariff Smart Meters' large volume of information management, which contemplate Hour Tariff, Power Quality and Distributed Generation data, adding more intelligence to the business and massively facilitating the operational work.

Main Functionalities

- Multi-Tariff, including Hour Tariff
- **Binomial Tariff Support**
- Electric Power Quality
- Loss Analysis
- Distributed Generation
- Metering Data Monitoring
- Rules and Alarm Configuration

Navigation in 3 Independent Views

Communication View – View the meters from its communication technology.

Distribution Network View – View the meters from the distribution hierarchy network.

Business Vision – View the meters from their geolocation in the concession areas.

Massive navigation facilitated by keyword search and advanced search for entity attributes and markings.

RS2000 Remote Terminal Units Integrated to the Meter

RS2000 EVO ZEUS

RS2000 EVO SMW

- **3G/GPRS** remote communication, with possibility of dual SIM Card.

- Interface with meter according to the **protocol (DLMS/COSEM, MODBUS)**, allowing:
  - Register readings and instantaneous quantities collection.
  - Configuration.
  - Drives – such as Connect & Disconnect.

- **Local configuration** via **Bluetooth interface.**

- **Field contingency for Connect & Disconnect and reading** via Bluetooth interface.

- **LAST GASP** alarm.

- Equipment's internal **temperature** indicator.

- **Remote Terminal Unit's** firmware upgrade.

Exclusive Features

- Different meter protocols recognition and conversion into metering data, exploring the advantages of each technology.

- Management of energy and demand registers reading in four quadrants per hourly station.

- Registers for billing availability analysis.

- Mass Memory availability analysis for loss analysis.

- Energy consumption management by Distributed Generation Tariff Station, by type of generation.

- Instantaneous electrical quantities mapping in phasor graph.

- Alarm distinguished management, allowing automatic inferences and utility inferences for markings on attention and monitoring states, in addition to occasional occurrences.

- Remote Connect & Disconnect process management based on commercial or field operation processes.

- Power quality and voltage data availability on a permanent basis.

- Energy balance by LV transformer.

- Consolidated views by customer group, with a synoptic view on a map of the most critical areas, by alarms and unbalance.