

CHAIN2GATE
ENERGY AWARE

ENERGY AWARENESS

CHAIN2GATE was created by MAC srl, a company that designs, develops and produces high-tech products and systems. MAC's driving force behind innovation comes from a sincere and strong desire to serve people. This human-centric approach has naturally led MAC to develop solutions that support the needs of people and the environment in which they live. Because of this, MAC has been inventing solutions for the building of a sustainable future for over 20 years, with the objective not only to fuel growth within the company itself, but also to increase the well-being of the community and the territory around it. MAC invests in continuous innovation, focusing its commitment on energy saving, service optimization and environmental protection.



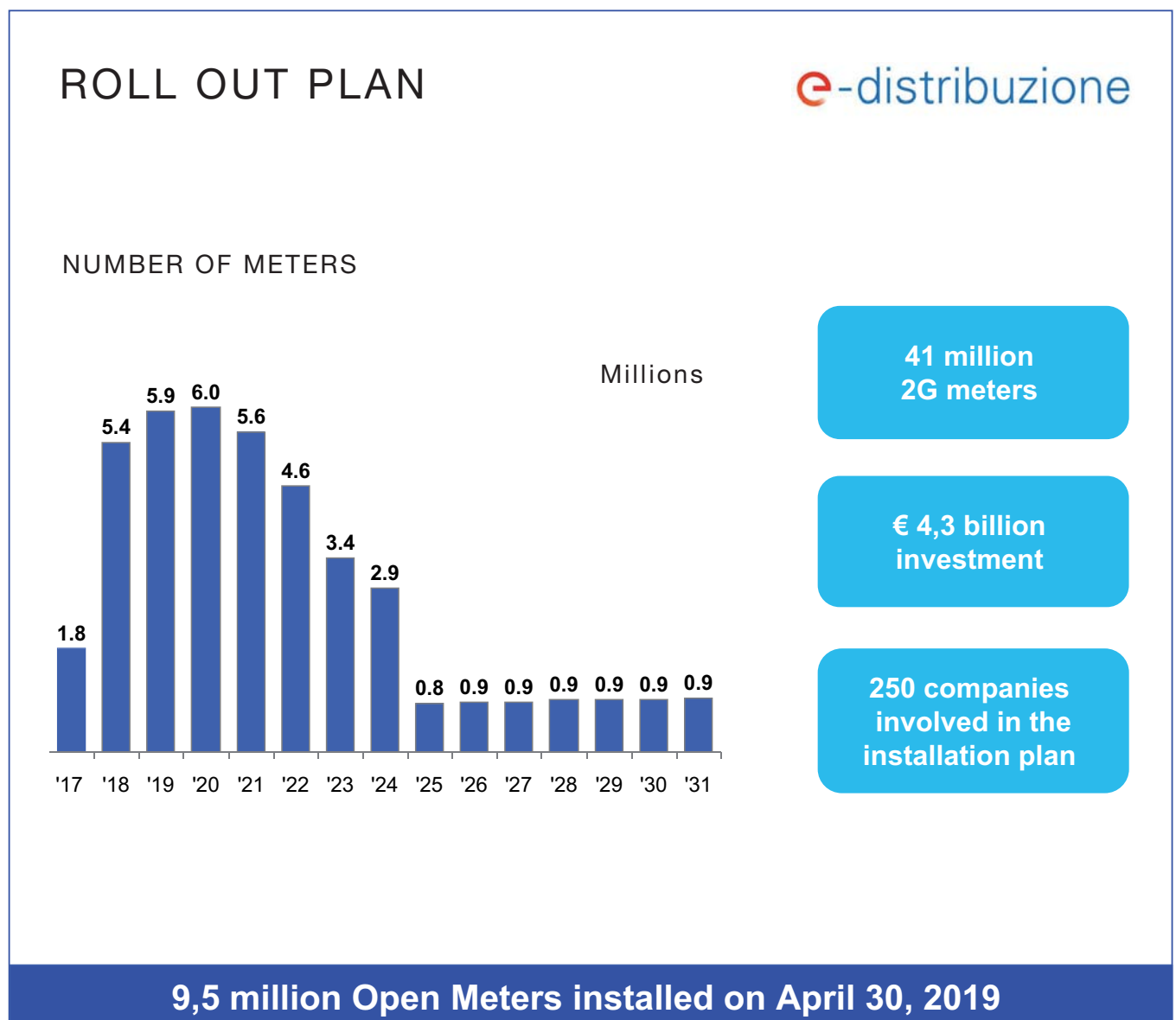
ITALY | 2020 THE FREE MARKET

Today, suppliers, sellers and operators of the energy sector must face not only the competitiveness of the market but must also be able to enable services related to the liberalization of the energy market. Finally, families and enterprises will be able to manage and monitor their energy independently. This free market will increase awareness of consumer behavior, cost savings, and overall sustainable habits for the environment.



ITALY | THE ROLL OUT OPEN METER

E-distribuzione has already begun the installation of 41 million Open Meters between Italian companies and homes, as established by ARERA "with the perspective of a progressive improvement in the performance of intelligent measurement systems and smart meters, in order to make them increasingly adherent to the needs of the end customer."



*source e-distribuzione

CHAIN2GATE | SOLUTION BY MAC

With opportunity of the liberalization of the energy market MAC immediately began thinking about a mature and market-ready device, small and compact, easy to use and intuitive: and the first CHAIN2GATE for Energy Awareness was created. The device is equipped with:

- A LED indicator for immediate identification of consumption status
- A light signal and acoustic signal for advance warning of any electricity interruption
- Wi-Fi connectivity to integrate within the most advanced Smart Home systems (IoT ready).



CHAIN2GATE | SOLUTION BY MAC

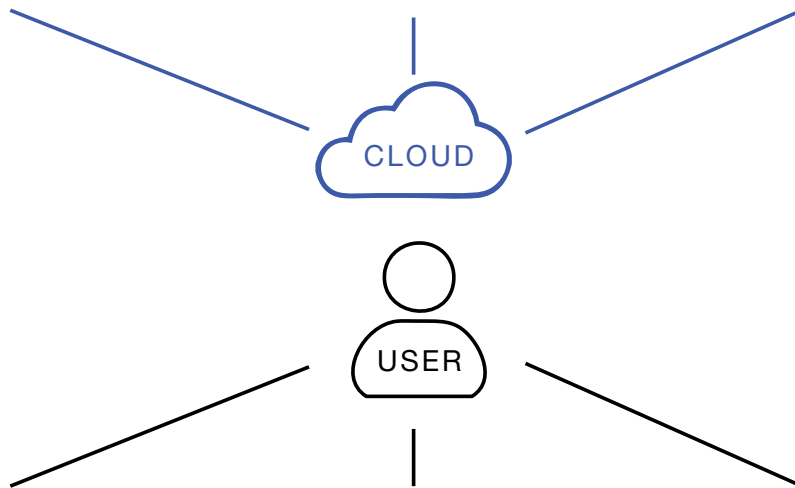
ENGINE



ONE/EVO



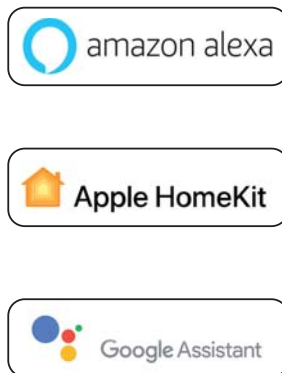
DIN



APP



VOICE ASSISTANTS



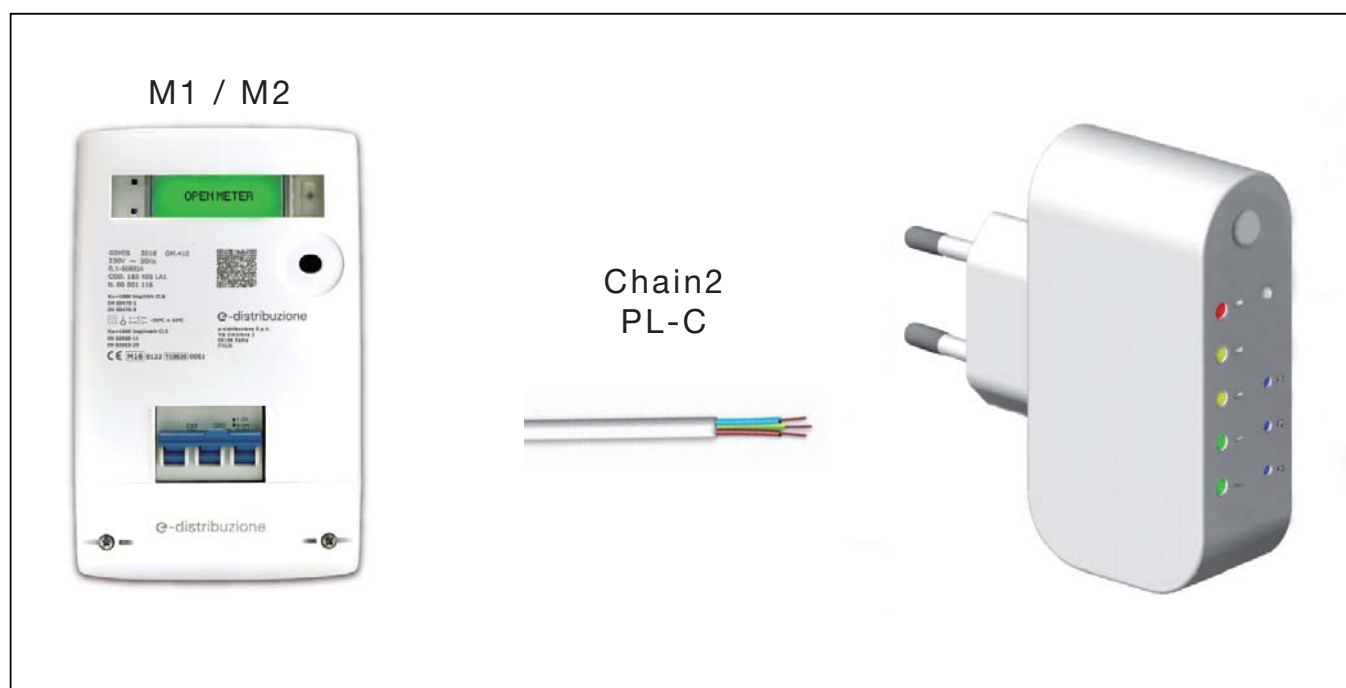
SMART HOME



CHAIN2GATE | OPEN METER

Chain2 is the communication technology that allows Open Meters to transmit consumption data and make them duly available to the user. MAC has actively participated in the building of a future with energy awareness, which translates into savings, simplicity of use, and control of consumption with Chain2Gate. The user device allows direct communication with the Open Meter by enabling:

- Increased reliability
- Increase in the speed of data collection
- Cost reduction
- Easy installation



CHAIN2GATE | PRODUCT FAMILY

With the market opportunity enabled by Chain2, MAC has developed a family of products that strongly supports and completes the market for possible applications of Chain2: the Residential Market, Prosumers and SMEs.

The CHAIN2GATE family is made up of intuitive devices to make consumption reading simple, fast and accessible to monitor, manage and plan energy consumption.

The CHAIN2GATE family communicates with applications using the most advanced security standards and the most widespread IoT protocols.

The devices can be customized in terms of:

- Technologies: Wi-Fi, LoRaWAN, 3G, NBIoT
- Installation: Plug & Play, DIN bar, OEM
- Interface: LED, APP

ONE/EVO



DIN

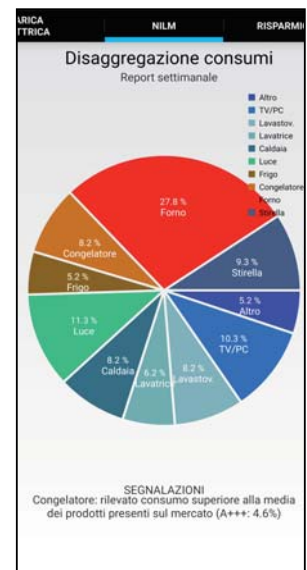


ENGINE



CHAIN2GATE | USER INTERFACES

The product family also provides integration services with Voice Assistants and Cloud (Machine Learning and AI).



CHAIN2GATE BY MAC | USERS

RESIDENTIAL MARKET

42 million meters
(Consumer and/or
Prosumer, condominiums).



ENERGY STORAGE & RENEWABLES

1 million and growing.



ELECTRICAL DISTRIBUTION NETWORK

63,500 km of high voltage lines
(public lighting, radio base
stations, repeaters, e-mobility
charging stations).



CHAIN2GATE BY MAC | USERS

SMEs 5.3 million: pharmacies, laboratories, groceries, butchers, beauty salons, mechanical workshops, B&B.



