CHAIN2GATE
ENERGY AWARE PLATFORM

CHAIN2GATE 4 CIR

The intelligence that connects charging to the grid.

The Charging Infrastructure Controller that turns charging stations into an active resource of the Smart Grid.
MAC's Chain2Gate 4 CIR device is compliant with Annex X.
It is installed between the 2G Smart Meter and the charging infrastructure. It reads the meter's electrical and contractual data via Chain2 and communicates with the charging station, without modifying its electronics.



MONITORS

Real-time consumption to enable modulation of the charging power based on household loads (Power Management), preventing the meter from tripping.

MEASURES

Grid frequency continuously and interrupts charging in the event of underfrequency, to safeguard grid stability.

COMMUNICATES

With the Remote Operator and turns charging into a flexible resource for the power system.

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REGULATIONS

CIR: a new opportunity created by regulation.

From **January 1, 2027**, all new private charging points must be fitted with a CIR (Charging Infrastructure Controller).IThe requirement comes from the EU RED III Directive, transposed into Italian law by Legislative Decree 5/2026. The technical requirements are set by standard CEI 0-21, Annex X, which refers to CEI PAS 57-127 for communication and cybersecurity.
The requirement applies to new or replaced non-public charging points from 3.7 to 22 kW: homes, private garages, condominium common areas, company parking lots, and fleets.
The regulation covers LV (Low Voltage) grid installations and unidirectional V1G charging.
Regulation-compliant charging infrastructure is eligible for the **Bonus Colonnine**.

SOLUTIONS

CHAIN2GATE 4 CIR: one solution, multiple integration options.

Two configurations designed for the different needs of charging infrastructure manufacturers, both built on the same principle: more value from charging, more stability for the grid.

CHAIN2GATE ENGINE

CIR Embedded

CIR technology integrated directly into the charging infrastructure.



CHAIN2GATE 4 CIR

CIR Stand Alone

The external solution for integrating the CIR into charging infrastructure.



TECHNOLOGY

CHAIN2GATE 4 CIR: designed to interface with the charging ecosystem

CHAIN 2	MODBUS	ETHERNET WI-FI . LTE	MQTT / XMPP	API & WEB APP	CSC
Communication with the 2G Smart Meter	Integration with the charging infrastructure	Multiple connectivity options	Communication to systems and Remote Operator	Activation, configuration, and management	Safe charging management