



## Charging Stations: **the regulatory map**

A complete overview of the rules that govern public charge points - from technical safety and charging interfaces to communication protocols, grid connection, billing, cybersecurity, accessibility and consumer protection.

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Compliance domains

**EU + national**

Standards basis

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### **Technical safety & charging interfaces**

**EN IEC 61851-1 / -21-1**

General safety, charging modes and the vehicle-to-charger interface for conductive AC/DC charging, with switchgear assemblies to EN IEC 61439.

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### **Communication & roaming protocols**

**ISO 15118 · CCS · OCPP · OCPI**

Vehicle-to-grid communication and Plug & Charge via ISO 15118 and CCS, with back-end interoperability and roaming through OCPP and OCPI.

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### **Grid connection & battery storage**

**EN 50549 · EN IEC 62933**

Connection requirements for consumers and generators on LV/MV networks, including on-site battery storage systems.

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## From hardware to law

Charging stations sit at the intersection of electrical safety, grid codes, metrology and digital regulation. Each domain carries one flagship requirement that anchors compliance from hardware to law.



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### Metrology & consumer protection

#### MID — Directive (EU) 2014/32/EU

Calibrated energy measurement for fair, transparent billing — underpinning price transparency, ad-hoc payment and consumer-protection duties at public charge points.

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### IT security & critical infrastructure

#### NIS2 — Directive (EU) 2022/2555

Cybersecurity and risk-management duties for energy and critical operators running charge-point networks.

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### Accessibility & infrastructure

#### Accessibility Act — Directive (EU) 2019/882

Accessible charge points and payment terminals, alongside AFIR (Regulation 2023/1804) rollout targets, connector mandates and price transparency.

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## Before you finalise

Applicability, thresholds, effective dates and national deviations vary. Each domain should be verified with a subject-matter expert before a charge-point design or rollout is finalised.

