

UN-ECE EV F&SC cluster – Task B – global survey

In Task B of the EV F&SC cluster we are preparing a road map to address any gaps in the harmonisation of smart and bi-directional charging. The road map is prepared through an inventory and gap-analysis. To further substantiate the inventory and gap-analysis the cluster, in its meeting of 11 September 2025, agreed to have a written survey amongst its members.

The survey will be distributed on 20 October to the cluster participants and will close by 20 November. The results of the survey are planned for presentation in the January 2026 cluster meeting.

All cluster participants are invited to complete the survey.

Survey questions

#1 What is the name of the organization you are representing?

#2 In what region of the world is your organisation active?

#3 What kind of actor are you representing?

Government / International organisation / Knowledge institute / Car manufacturer / Charge point manufacturer / Charge point operator / Grid operator / Other:

#4 Contact details

Name:

Email address:

Telephone address:

5 What rules, norms and standards are either enabling or insufficient for smart and bi-directional charging sessions in your region with regards to:

- Definitions
- Market organisation (e.g. rules, facilities and roles)
- Communication protocols (e.g. vehicle-recharging station or CPO – DSO management systems)
- Grid codes (rules for connecting to and managing the connection with the electricity grid)
- Hardware requirements (for the recharging station or other parts of the local electricity system)
- Vehicle specifications (e.g. vehicle type approval, other technical requirements or labels)

	Rules, norms and standards		
	Enablers: current	Enablers: planned or under development	Lacking or insufficient
Definitions			
Market organization			
Protocols			
Grid codes			
Hardware requirements			
Vehicle specifications			

#6 in your opinion, which actions should be taken in order to harmonize smart and bi-directional charging on an international level?

7 Are there any other remarks with regards to smart and bi-directional charging harmonisation that you want to share with the cluster participants?