

# Results of the second Build Zero Test event



## 1 ISO 15118-2 becomes industry standard

The second BuildZero Test Event confirms that ISO 15118-2 is becoming the new standard. 81% of the tested working combinations used this protocol, enabling features such as paused or delayed charging. These are essential for effective smart charging at sites with limited grid capacity.

**81%** sessions with ISO 15118-2  
**19%** sessions with DIN 70121

## 2 Vehicles did not stop immediately after E-stop

Improvements were seen in connector reliability and communication locking. However, issues with E-stop responsiveness (40% vehicle, 29% charger delayed) and non-standard LED indicators remain.

**40%** vehicles stopped with delay after E-stop  
**29%** chargers stopped with delay after E-stop

## 3 Testing charging compatibility prevents on-site downtime

28 charger-vehicle combinations were tested. 23 worked on first attempt; 4 after software tweaks. One failed. Testing compatibility before deployment prevents costly downtime on-site. ElaadNL provides test protocols including fluctuating power profiles and session interruptions to simulate real-world challenges.

**82%** combinations worked on first attempt  
**96%** combinations worked after software tweaks

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 ENI, BMWT and ElaadNL

 ElaadNL Testlab, Arnhem



 25 Engineers

 3 Charging stations

 4 Construction vehicles

 2 Battery systems

 28 Testing combinations

 4 Knowledge sessions

 9 Networking moments