



WELCOME TO THE ELAAD  
TESTLAB, WHERE EV CHARGING  
TECHNOLOGIES MEET!

PRESENTING  
the new and improved  
Elaad Testlab officially  
opened by the Dutch  
King Willem Alexander  
on June 8<sup>th</sup> 2022



Elaadnl

ELAAD  
TESTLAB





TOGETHER WITH  
MANUFACTURERS  
FROM ALL OVER  
THE WORLD, WE  
TEST PRODUCTS,  
SERVICES AND  
LOOK FOR  
IMPROVEMENTS  
WHERE  
NECESSARY

### CHECK YOUR TECH!

At the Elaad Testlab in Arnhem EV charging technologies meet and are put to the test. You are welcome to check your tech in our open charge lab. The Elaad Testlab is part of knowledge and innovation center ElaadNL, an initiative of the joint Dutch grid operators.

## OUR AVAILABLE TESTS

- **INTEROPERABILITY TEST**

Testing interoperability between vehicles and charging infrastructure during regular, smart and bidirectional charging

- **SMART CHARGING TEST**

How does the electric vehicle or the charging station deal with smart and bidirectional charging control signals?

- **POWER QUALITY TEST**

Does the charging cause power quality disturbances and how does the charger or the vehicle deal with disturbances on the grid?

- **CYBER SECURITY TEST**

Testing the cyber security of connected charging infrastructure

- **GRID OPERATOR TEST**

Official approval test for connecting public charging stations to the Dutch power grid

- **ICT CHAIN TEST**

ICT communication and integration throughout the whole EV charging ecosystem

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## TESTS ARE AVAILABLE IN AC/DC, NORMAL, FAST AND HEAVY DUTY CHARGING





## THE ELAAD TESTLAB IS:

- A 900 m<sup>2</sup> indoor test location and an outdoor Charging plaza
- All kind of types of public AC chargers and Home chargers
- DC chargers (also heavy duty charging)
- Suitable for all kinds of electric vehicles including buses and trucks
- 360 kW of grid emulation power for Power Quality tests
- A charging station and electric vehicle communication emulator, including ISO 15118-20
- 360 kW of bidirectional DC power emulating DC charging
- Highly accurate measurement equipment for detailed measurements



## CONTACT US

- For more detailed information about the tests
- To provide input to the test process
- To install a charging station at the Elaad testlab to be added to the test base
- To get the charging of your EV model fully tested on interoperability, smart charging and power quality
- To schedule a test and/or the delivery of the device

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**TESTING IS FREE OF CHARGE.  
OUR ONLY LIMITATION IS TIME,  
SO SCHEDULE YOUR TEST NOW!**



THE NEW ELAAD TESTLAB IS POSSIBLE THANKS TO FUNDING FROM:

- Ministry of Infrastructure and Water Management
- The Province of Gelderland
- The joint Dutch grid operators