ABB invests and innovates
The investment in a new ABB E-mobility Innovation Lab and head office represents ABB’s commitment to advancing developments in the field of sustainable mobility. The facility will allow us to increase the pace of product testing and development, ensuring we can deliver innovative products to market faster than ever.

Interoperability
With interoperability being a key focus, the facility provides a collaborative and confidential environment for vehicle OEMs to test with the latest charging technology across all standards and all power levels.

Supporting ABB Electrification’s Mission to Zero
As part of ABB Electrification’s Mission to Zero which supports the use of less and cleaner energy, it was vital to not only create a building that can advance progress in sustainable mobility, but also to create a facility that is designed to be a benchmark of a Smart building.

Talent scout
This building marks a significant step in the continued growth of ABB’s e-mobility business. The most important factor in driving technological advances is talent and there is no more inspiring location than on the TU Delft Campus, where the Innovation Lab will be surrounded by the next generation of electrical and industrial engineers.

ABB E-mobility Innovation Lab

- **Solar panels**
  - To convert DC harvested from the sun in to AC, which can be used to power the facility

- **Recycled power**
  - Inverters rooms return power generated from EV chargers back to the grid

- **Test cages**
  - For system and software validation

- **Smarter building products**
  - Such as: protection components, miniature circuit breakers, residual current devices, surge protection devices, control, signaling, measuring and smart accessories

- **Transformers**

- **Breakers and switchgear**

- **Electrical Distribution Control System (EDCS)**

- **Large test area**
  - Into which an electric bus or truck can be driven

- **HVAC**
  - Holistic Heating, Ventilation and Air Conditioning

- **For heating and cooling**
  - The ABB complex will be connected to a geothermal heating/cooling plant

- **Climate simulator room**
  - Rapid chargers will be subjected to extreme conditions, including a temperature range of -40/+100 and high humidity

- **ClimaECO**
  - Efficient heating, ventilation and air conditioning in one system

- **Interoperability testing simulators**
  - And compatibility testing between electric vehicle and EV charger

- **Training room**
  - Including demo chargers for training purposes of internal and external stakeholders