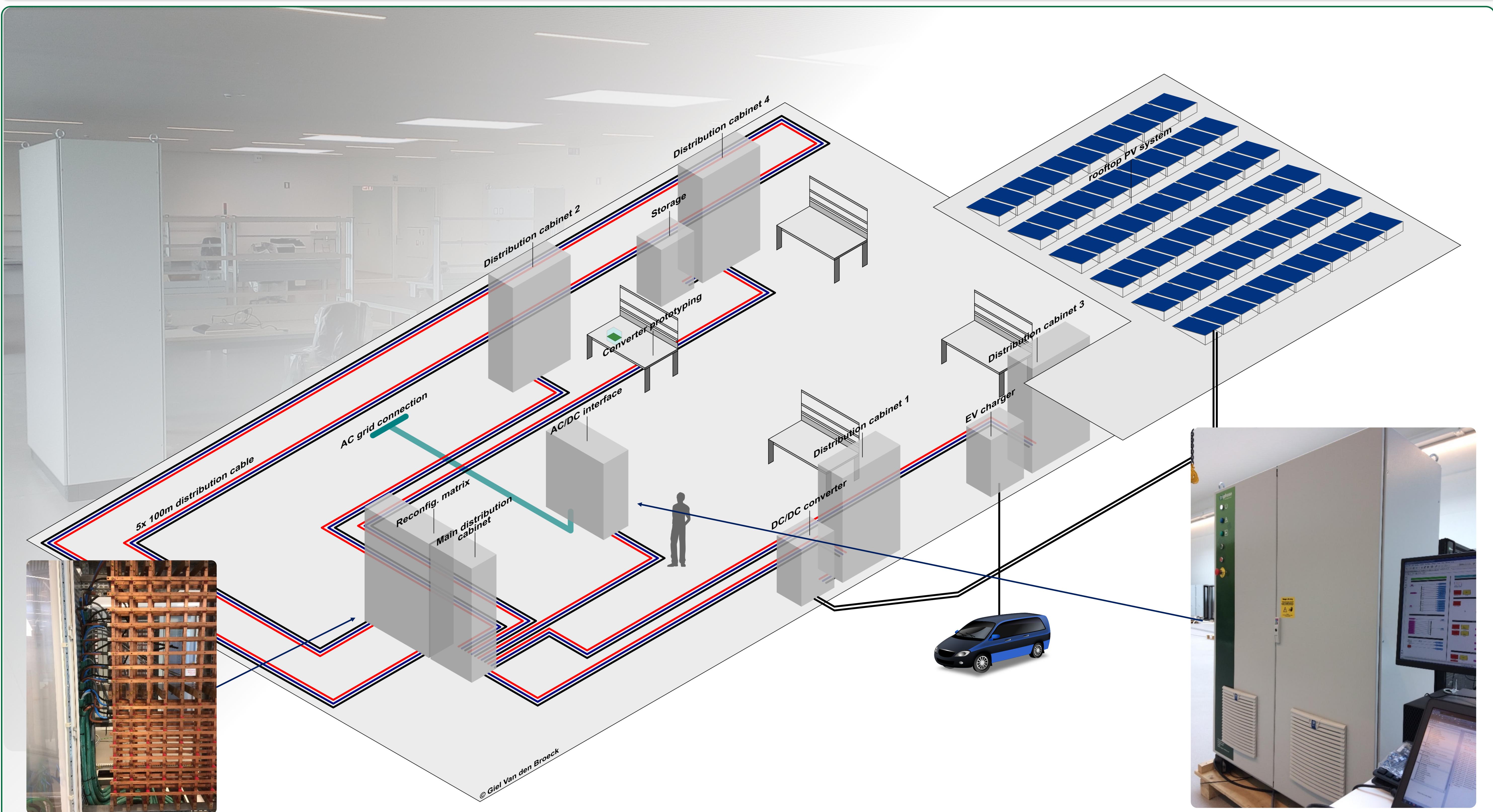


Introduction

The EnergyVille laboratory offers a 100 kW bipolar DC test grid which is completely reconfigurable and adjustable in terms of voltage levels and control algorithms. Numerous test cases are feasible, supported by our technical experts.



Features

- Three-wire, bipolar DC test lab up to $\pm 500V$ (adjustable)
- Reconfigurable: the network configuration can be adjusted for particular test cases
- 100 kW maximum power
- 5x 100m distribution feeders available
- Reconfigurable and programmable AC/DC interface converter
- Reconfigurable and programmable DC/DC converters
- Interfaced with the rooftop PV installation and test site
- Protected test environment
- Measurement equipment for a variety of phenomena

Numerous tests are feasible

- Interoperability
- Voltage stability tests
- High-accuracy efficiency measurements
- Electromagnetic compatibility
- Protection schemes and equipment
- Electric vehicle charging infrastructure
- PV converters
- Battery systems

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