Praktijkvoorbeelden Interoperabiliteit

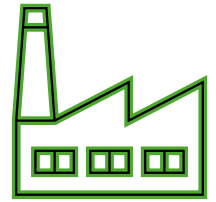
INTEROPERABILITEIT

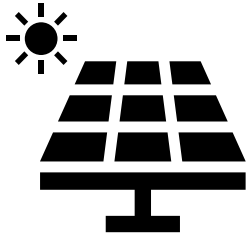
INTEROPERABILITEIT

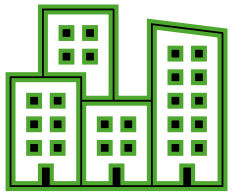
INTERCONNECT (STRIJP-S)

INTEROPERABILITEIT
INTERCONNECT (STRIJP-S)
HEDGE IOT (ELECTRICITY CAMPUS)

Intern gebruik







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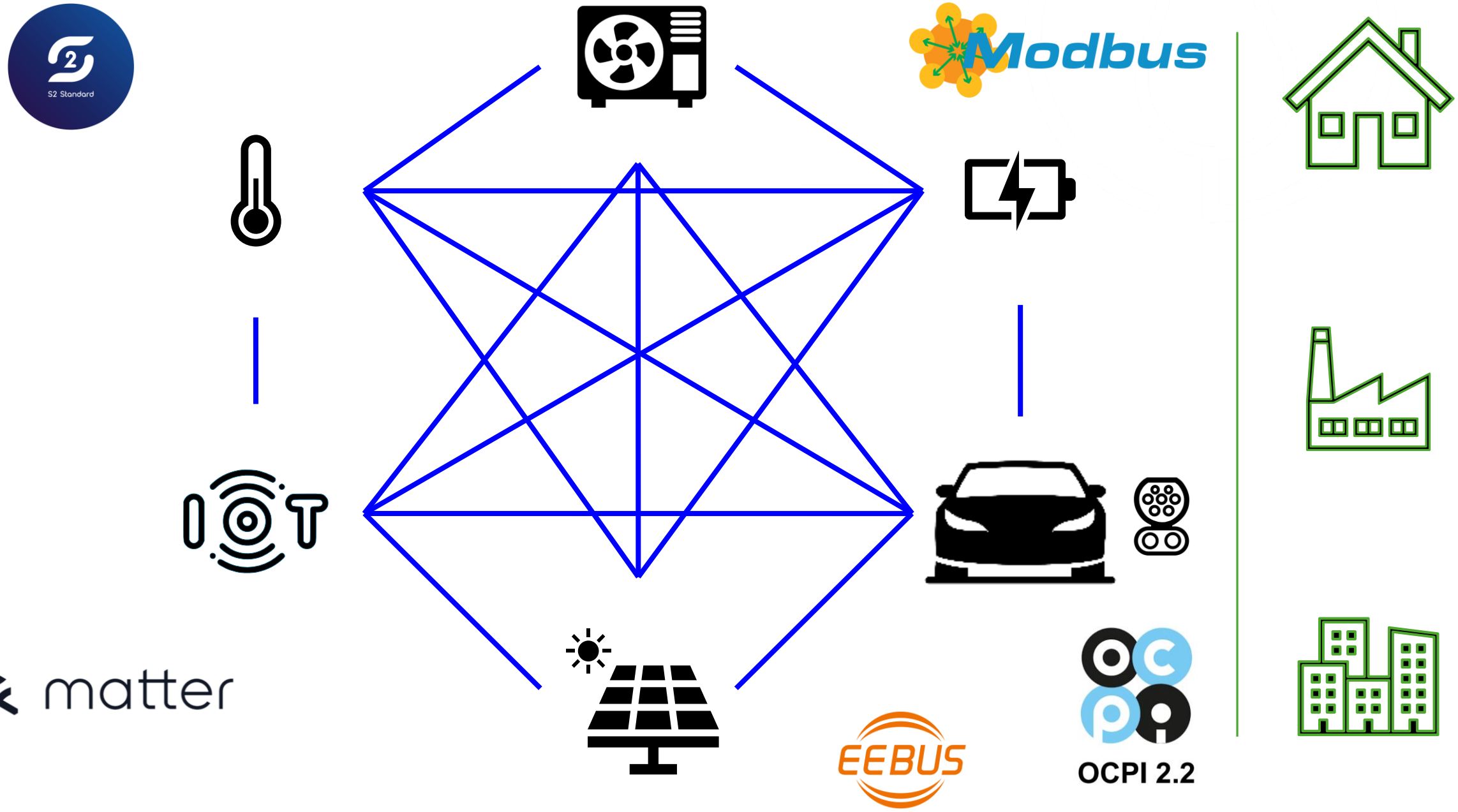

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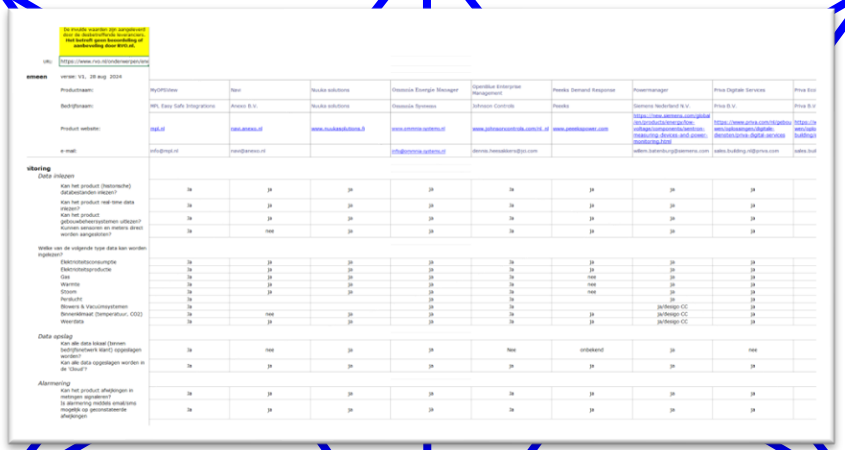

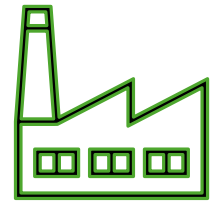

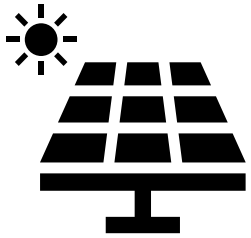

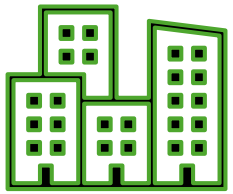

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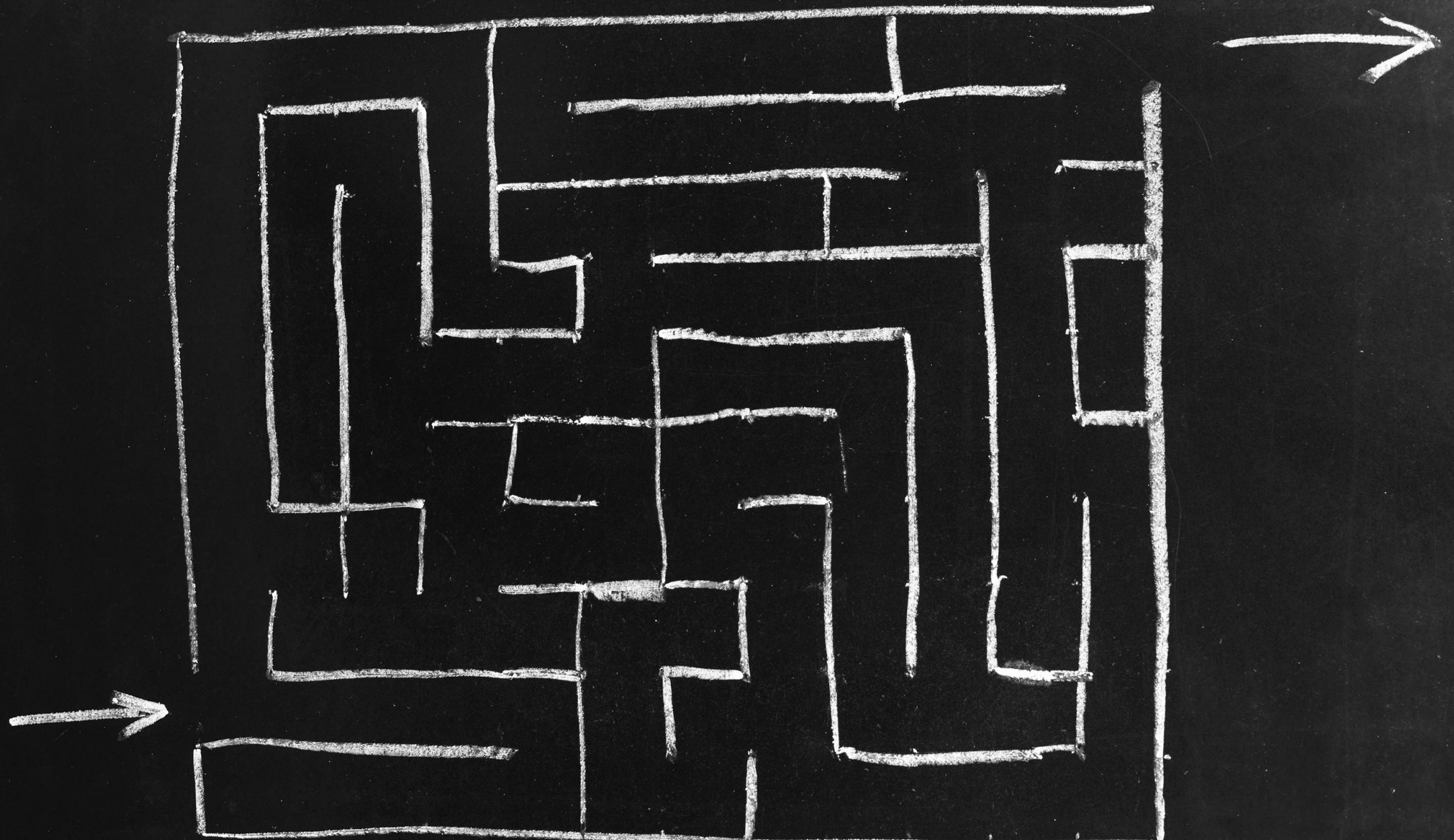
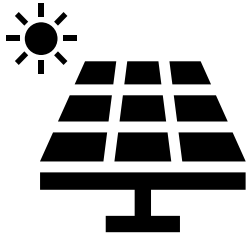


3.0



Intern gebruik

Piek verbruik (kW)

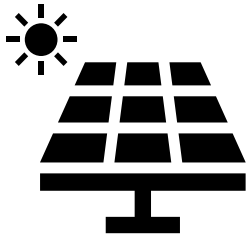
Temperatuur (^{0}C)

State of charge (%)

3.0

Data snelheid (Mbps)

Energy consumptie (kWh)



Energy productie (kWh)

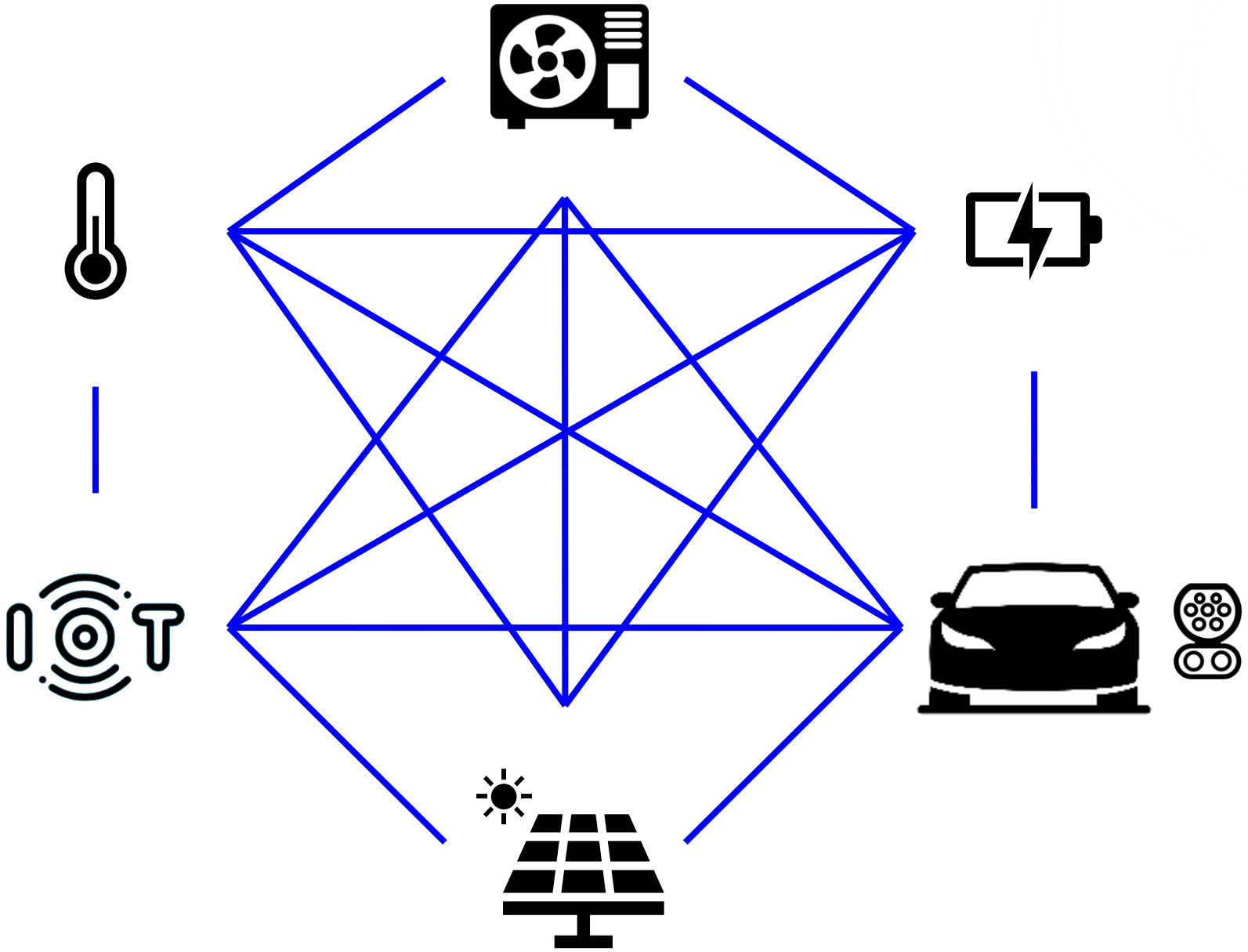
Intern gebruik

- Semantische Saref / Interoperabiliteit

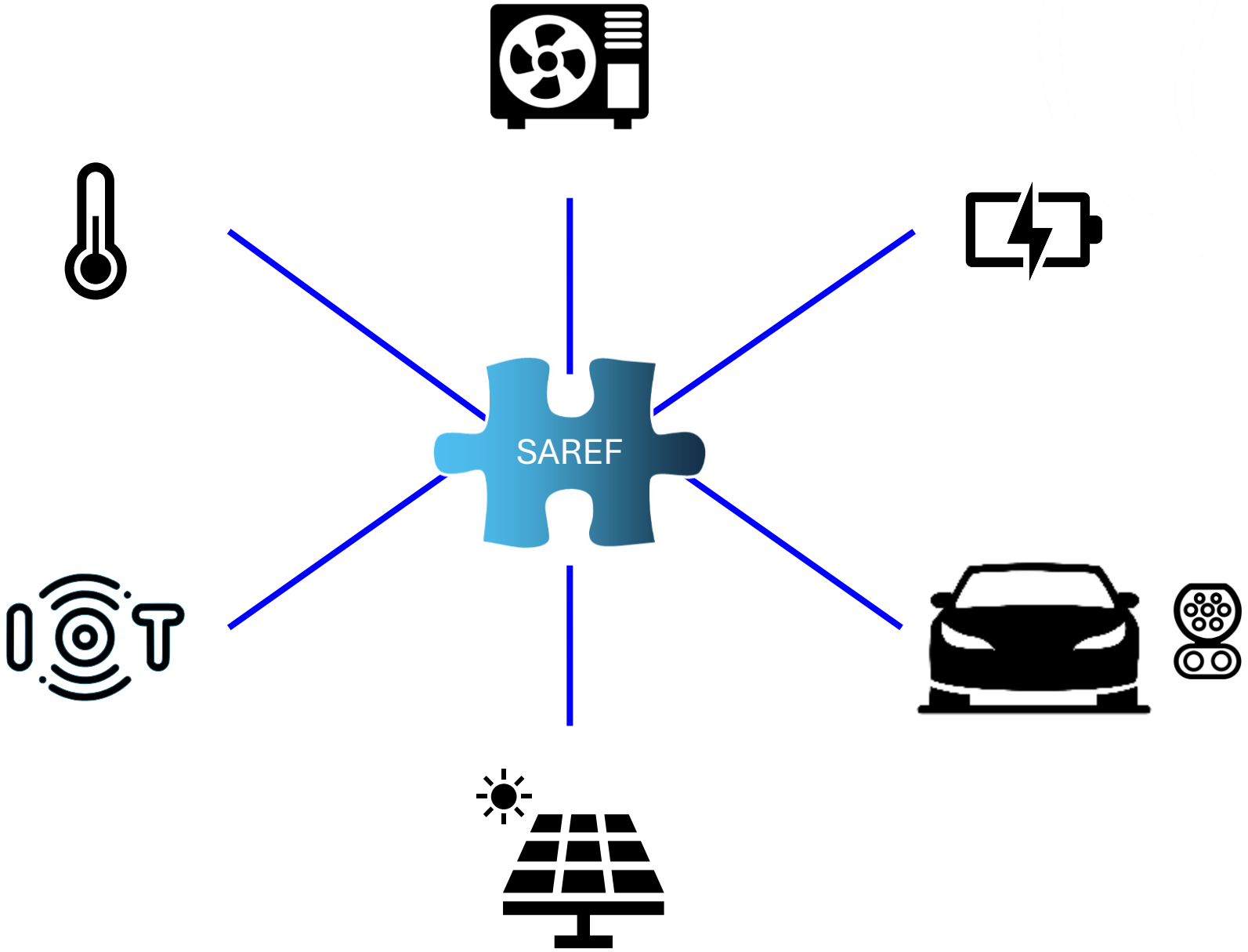
3.0

- Waarde: 3.0
- Eenheid: kWh
- Meetwaarde: Energie consumptie
- Waar gemeten: Slimme meter in Building B16
- Wanneer: 09:45, 06-10-2024

Intern gebruik



Intern gebruik



Intern gebruik

INTEROPERABILITEIT

INTERCONNECT (STRIJP-S)

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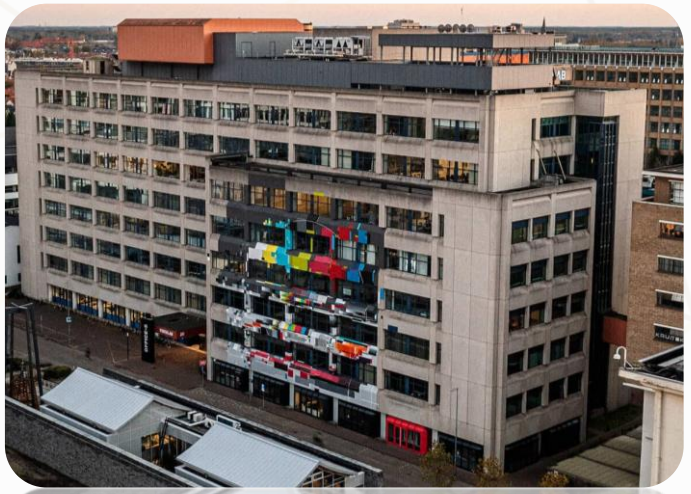
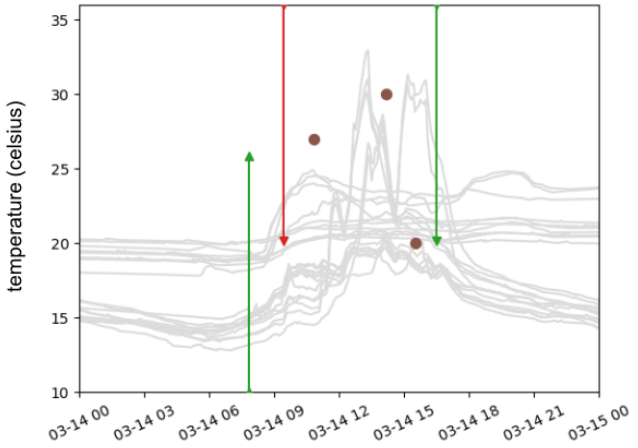


Intern gebruik

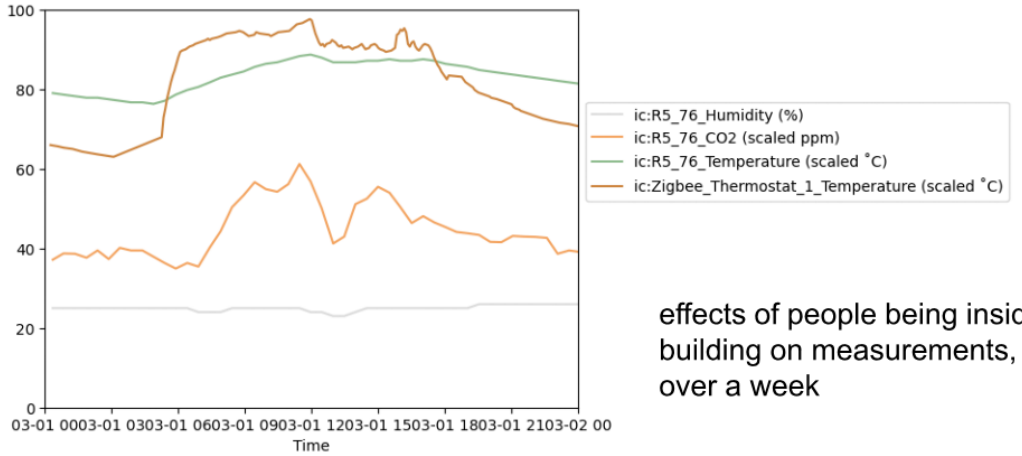
Intern gebruik

Visualization of Videolab data



windows opening (arrow up) and closing (arrow down) in one office, during one day. different windows are different colors and gray lines are the temperatures measured.
The brown dots are the thermostat settings.

Visualization of Videolab data



effects of people being inside of the building on measurements, measured over a week

Intern gebruik

NEWS ARTICLE | Publication 10 May 2023

First-Generation Blueprint for a Common European Reference Framework for energy-saving applications

The European Union has delivered the first-generation blueprint for a Common European Reference Framework for energy-saving applications.

The European Union (EU) has achieved significant milestones in developing a reference framework for energy-saving applications under the "Digitalising the energy system - EU action plan". These energy-saving applications support consumers in managing energy consumption more effectively, contributing to a more efficient and reliable energy system.

One key accomplishment is the successful delivery of the first-generation blueprint for a Common European Reference Framework for energy-saving applications under the Horizon 2020-supported InterConnect project.

This work benefited from 2 valuable inputs.

Firstly, in March this year, ETRA completed an extensive landscape study on energy platforms and consumer applications. The study offers valuable insights for ongoing work.

Secondly, the Expert Group 3 of the Smart Grids Task Force developed a report titled "Towards a Common European Reference Framework for Consumer Applications." The report outlines several service tiers based on current energy-saving applications and awaits final approval of the Task Force Steering Committee.

The first-generation blueprint for a Common European Reference Framework for energy-saving applications uses different types of data, including publicly available sources, data voluntarily shared by users and aggregations from smart meters. This diversity allows for the targeting of different user groups. It offers consumption reduction recommendations, eco-tips, and incentives for load shifting. Users can manually implement interventions, and the blueprint includes interoperability frameworks with distribution system operator (DSO) and transmission system operator (TSO) interfaces.

iStock

Related topics

Creating a digital society

Advanced and Cloud Computing | Energy

Smart and Sustainable Communities

Internet of Things

Boosting European digital Industry

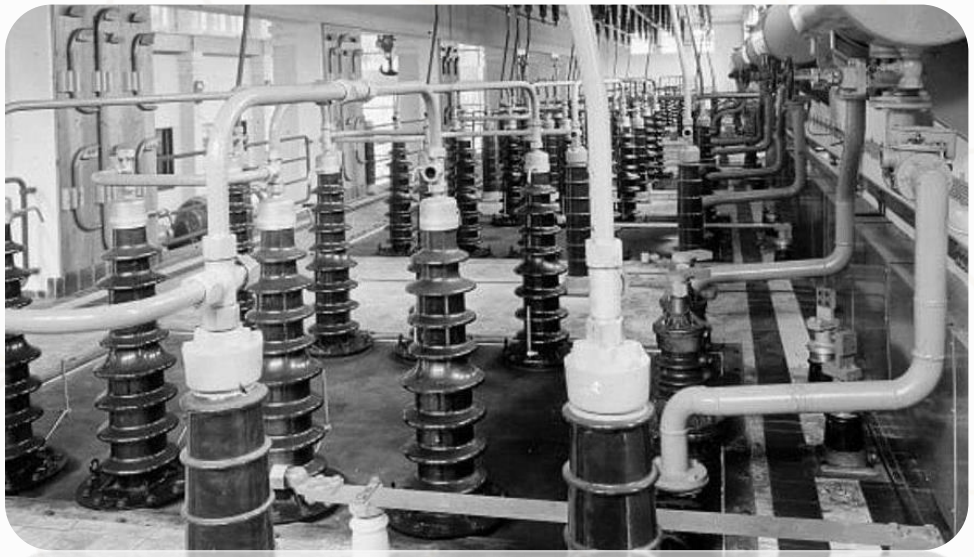
Digital Europe Programme | Green digital

Intern gebruik

INTEROPERABILITEIT

INTERCONNECT (STRIJP-S)

HEDGE IOT (ELECTRICITY CAMPUS)



HEDGE IOT (ELECTRICITY CAMPUS)

Intern gebruik

ELECTRICITY CAMPUS

KENMERKEN:

- Omvang: ca. 17 ha
- Gebouwen: 23.000 m2
- Kantoor: 10.000 m2
- Park is National Rijksmonument
- 4 National Rijksmonumenten
- Rijke historie

Uitdagingen/kansen:

- Eigen (oude) net
- Netcongestie i.c.m. verduurzaming i.c.m. Rijksmonument
- Verschillende gebuikers
- Verschillende gebouwen en systemen
- Ecosysteem

Hedge IoT – NL Pilot

3

3 Partners

15

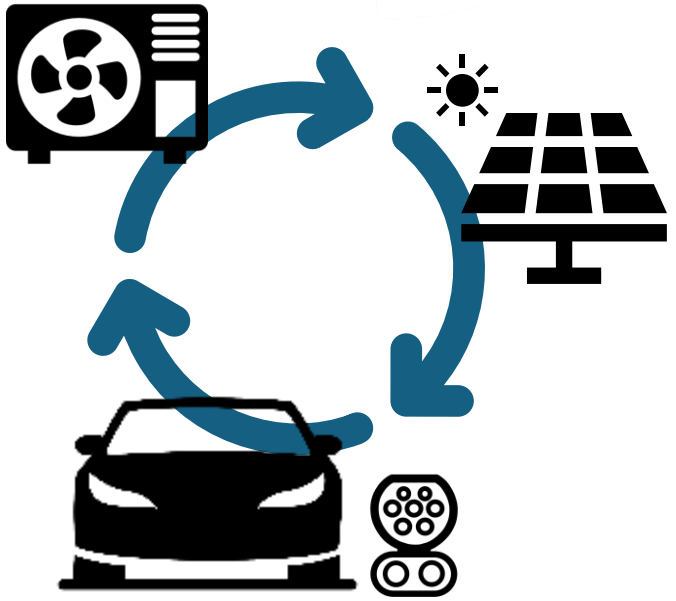
Uitrol slimme meters in gebouwen

3

3 Gebouw Beheer Systemen verbonden met EMS, waarvan tenminste 2 batterijen

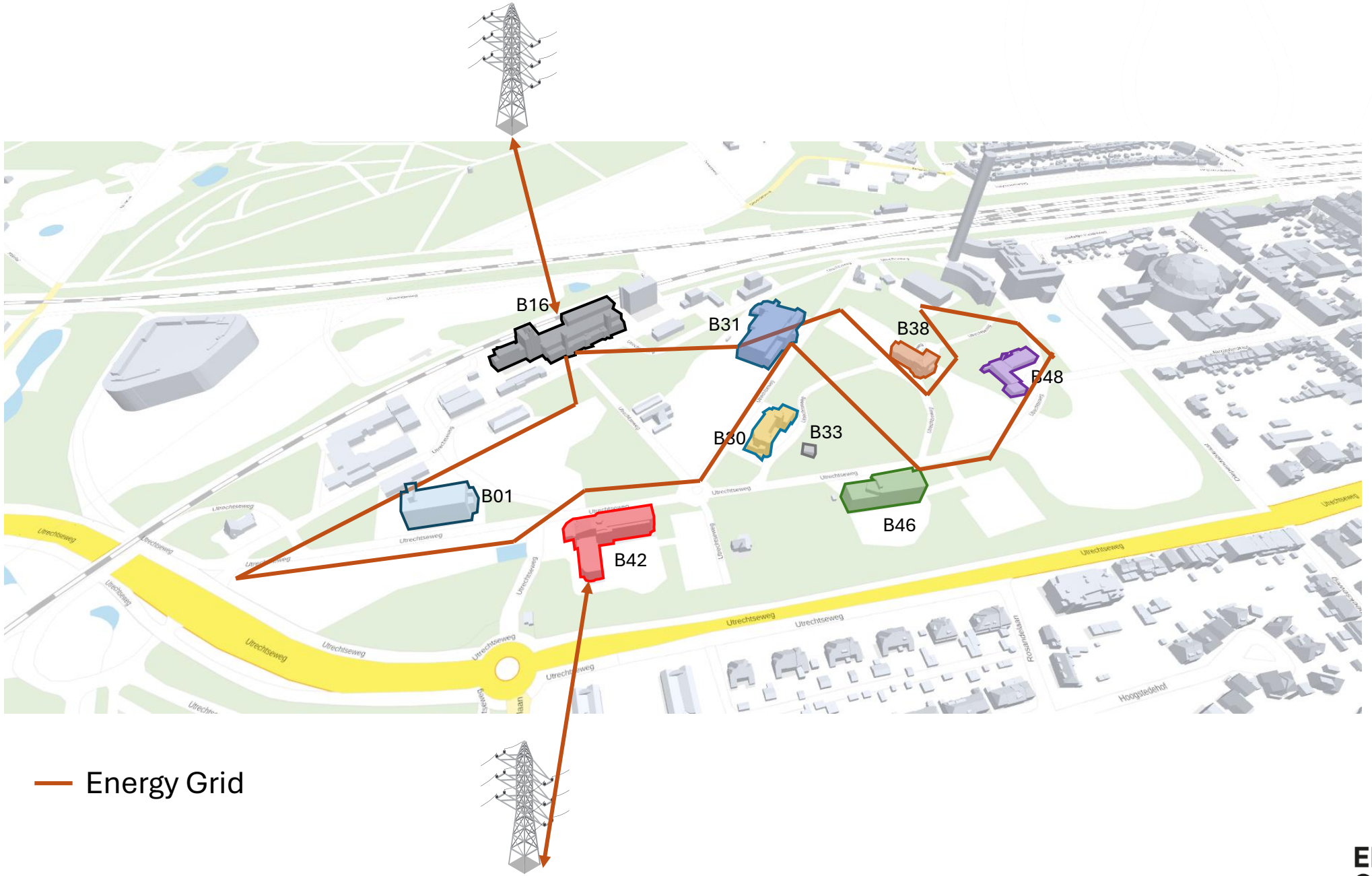
3

Tenminste PV, warmtepomp en V2G (6) worden verbonden



Intern gebruik

ELECTRICITY CAMPUS



Intern gebruik

ELECTRICITY CAMPUS

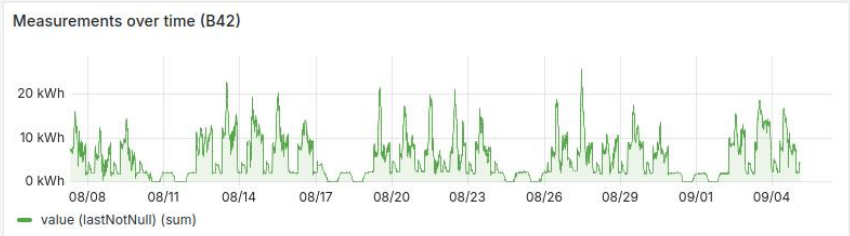
Home

Last 30 days

metering point: All

ELECTRICITY CAMPUS
at Arnhems Buiten

HEDGE-IoT



Laten we samen:

- Ontmoeten
  - Software:
    - (G)EMS / BMS
  - Hardware:
    - V2G
    - Batterijen
    - …
- Testen/demonstereren
  - Use cases (Flex, Robuustheid)
  - Open Calls
- Doorpakken en opschalen!

Let’s connect!

B4WARD

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W: www.b4ward.nl

ELECTRICITY CAMPUS
at Arnhems Buiten

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