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Slimmer thuis

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Intro

Het slimme **e**nergie**m**anagement**s**ysteem

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Het slimme **e**nergie**m**anagement**s**ysteem

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Wat doet een EMS?

- Monitoring en controle
- Beheer en sturing
- Energie-efficiëntie en kostenbesparing

Automatisch en zonder in te boeten op comfort!

Intro

Het slimme **e**nergie**m**anagement**s**ysteem Slimmie

Hoe besparen?

Meten
- Verbruikers in kaart brengen
- Bewust omgaan met energie

Minderen
- Verlaag sluimerverbruik
- Pak grote verbruikers aan

Spreiden
- Pieken vermijden

Eigenverbruik verhogen
- Verbruik als de zon schijnt
- Energiedelen

Sturen
- Timers instellen
- Slim aansturen

Energiecontract
- Type energiecontract
- Afstemmen op verbruik

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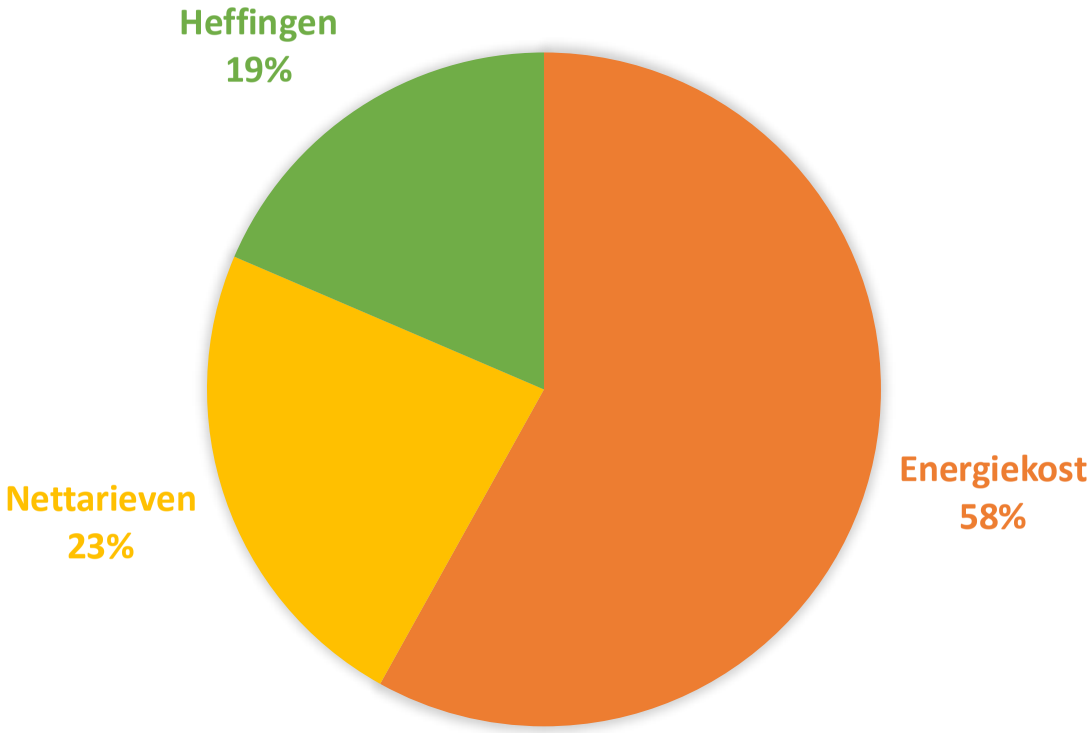
Bron: 6 basisprincipes voor een lagere elektriciteitsfactuur | VREG

Intro

Het slimme **e**nergie**m**anagement**s**ysteem Slimmie



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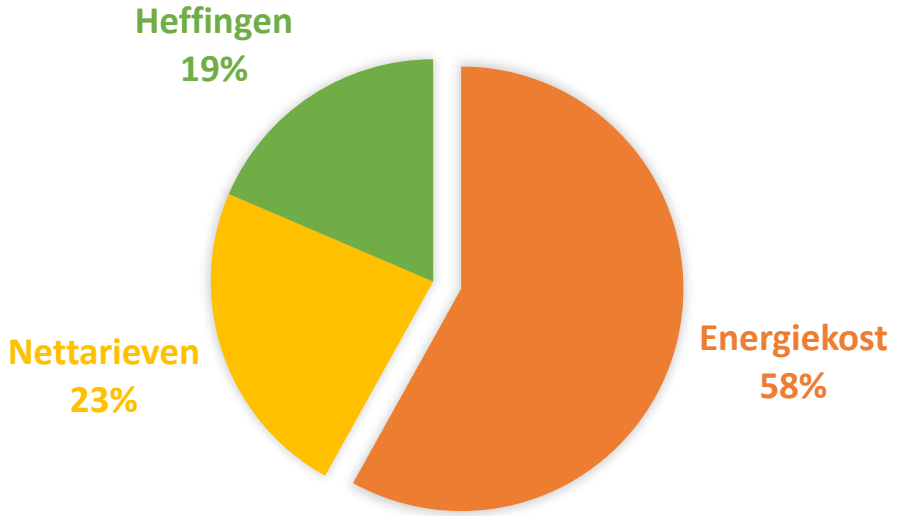
Intro

Het slimme **e**nergie**m**anagement**s**ysteem Slimmie

Energiekost

- **Energiecomponent** 
- Kosten voor groene stroom & WKK
- Vaste vergoeding



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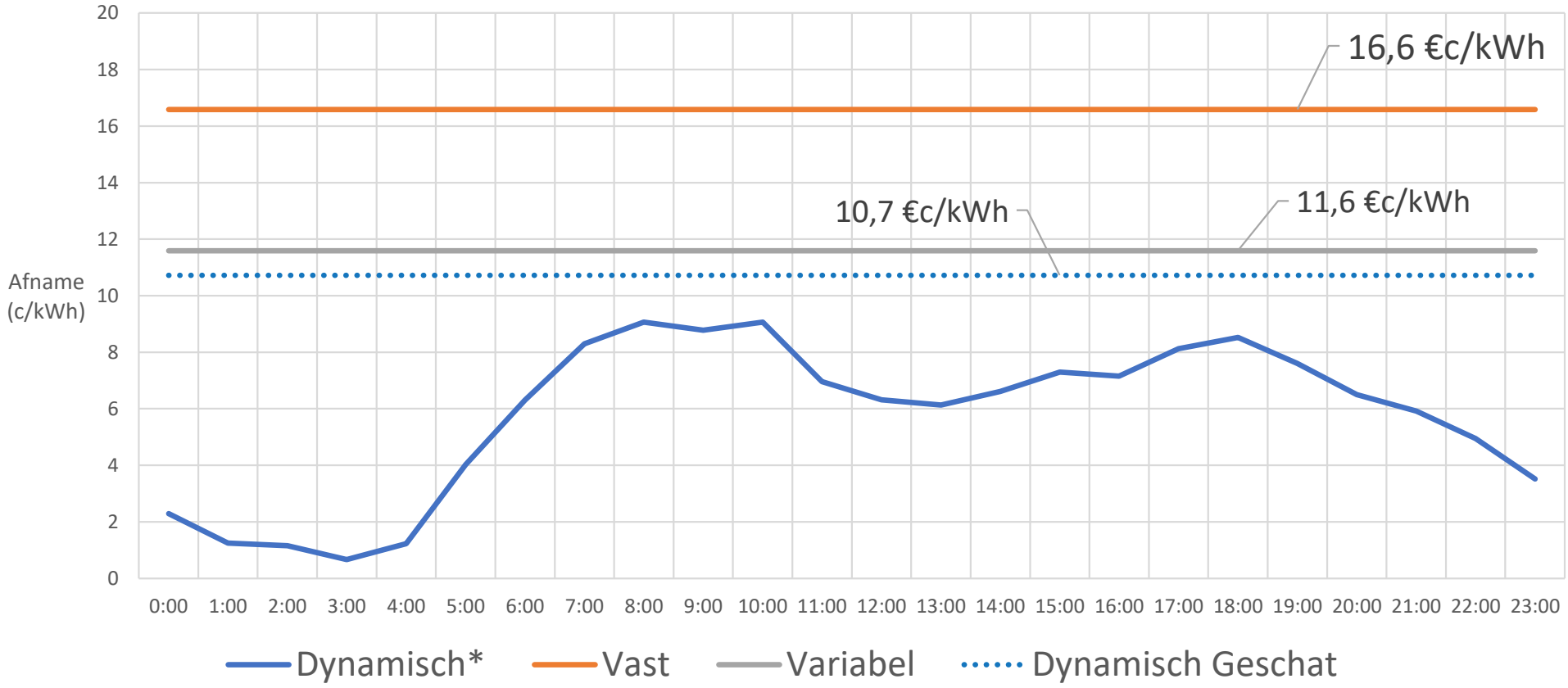
Het slimme **e**nergie**m**anagement**s**ysteem Slimmie

Tariefvergelijking energiecomponent - **Afname**



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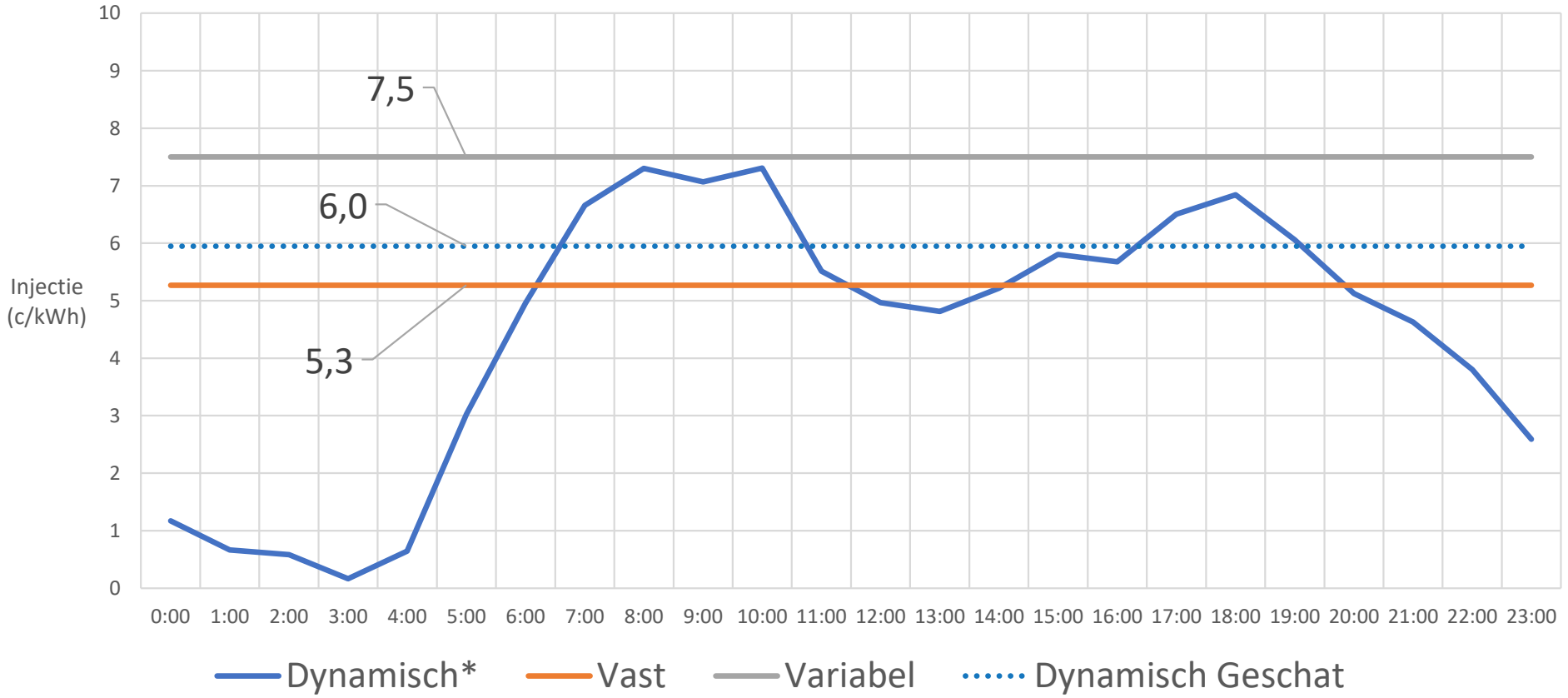
Cijfers VREG V-test 23/01/2024 - Afname 3.500kWh dag - *Dynamisch op basis van EPEX Spot en toeslagen afname

Intro

Het slimme **e**nergie**m**anagement**s**ysteem Slimmie

Tariefvergelijking energiecomponent - **Injectie**



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Cijfers VREG V-test 23/01/2024 - Injectie 2.000kWh dag - *Dynamisch op basis van EPEX Spot en toeslagen injectie

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Het slimme **e**nergie**m**anagement**s**ysteem Slimmie

Hoe besparen?

Meten
- Verbruikers in kaart brengen
- Bewust omgaan met energie

Minderen
- Verlaag sluimerverbruik
- Pak grote verbruikers aan

Pieken vermijden
- Spreiden

Eigenverbruik verhogen
- Verbruik als de zon schijnt
- Energiedelen

Sturen
- Timers instellen
- Slim aansturen

Energiecontract
- Type energiecontract
- Afstemmen op verbruik

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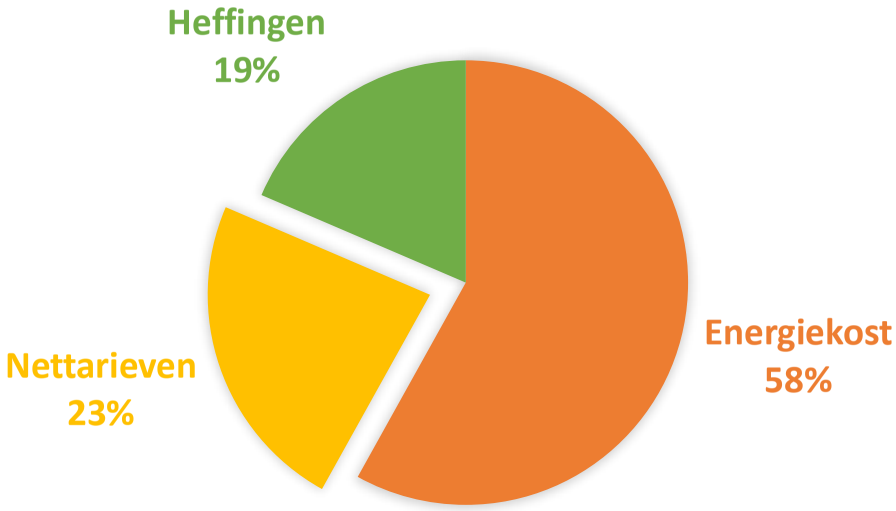
Bron: 6 basisprincipes voor een lagere elektriciteitsfactuur | VREG

Intro

Het slimme **e**nergie**m**anagement**s**ysteem Slimmie

Nettarieven

- **Capaciteitstarief**
- Afnametarief
- Databeheer



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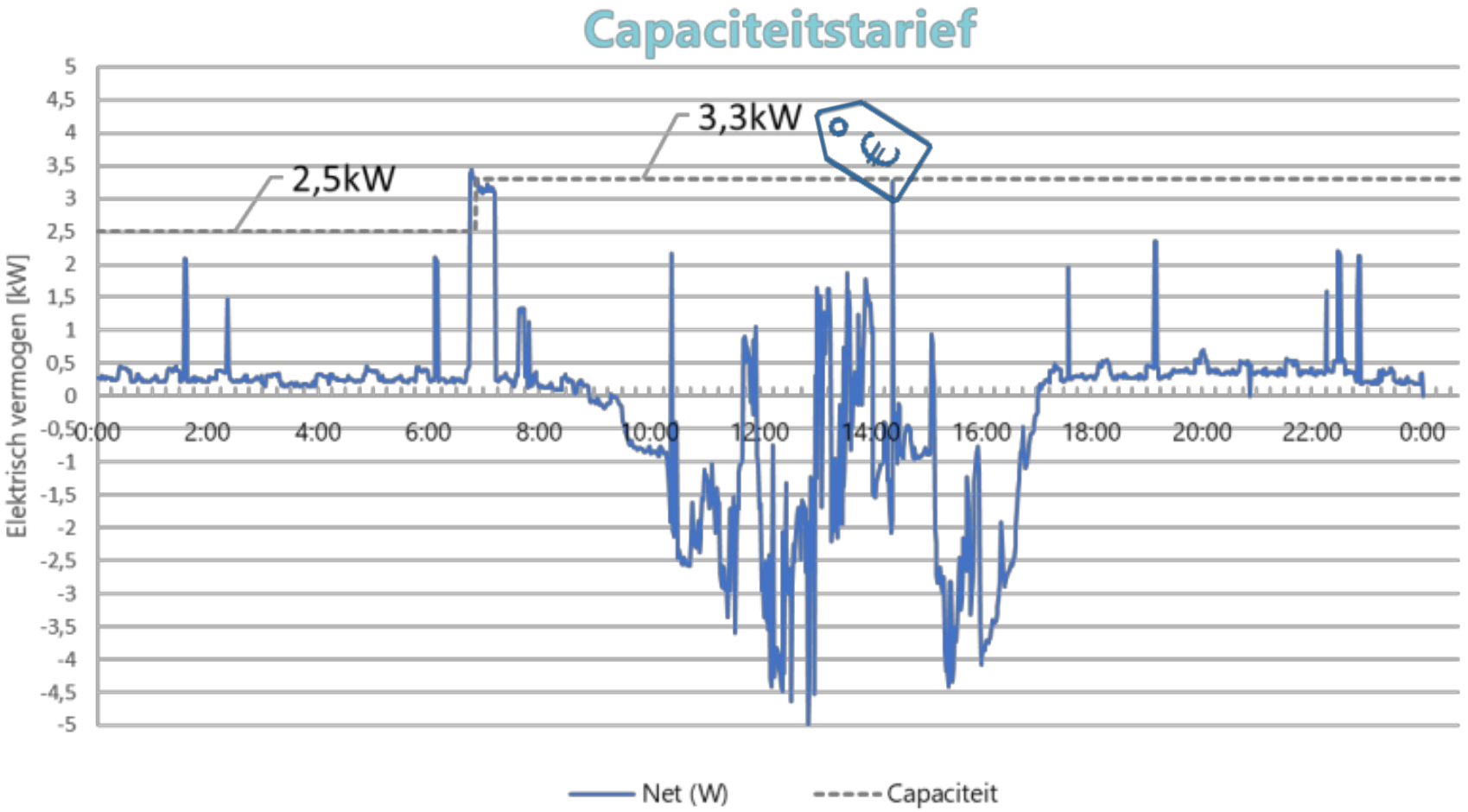
Het slimme **e**nergie**m**anagement**s**ysteem Slimmie



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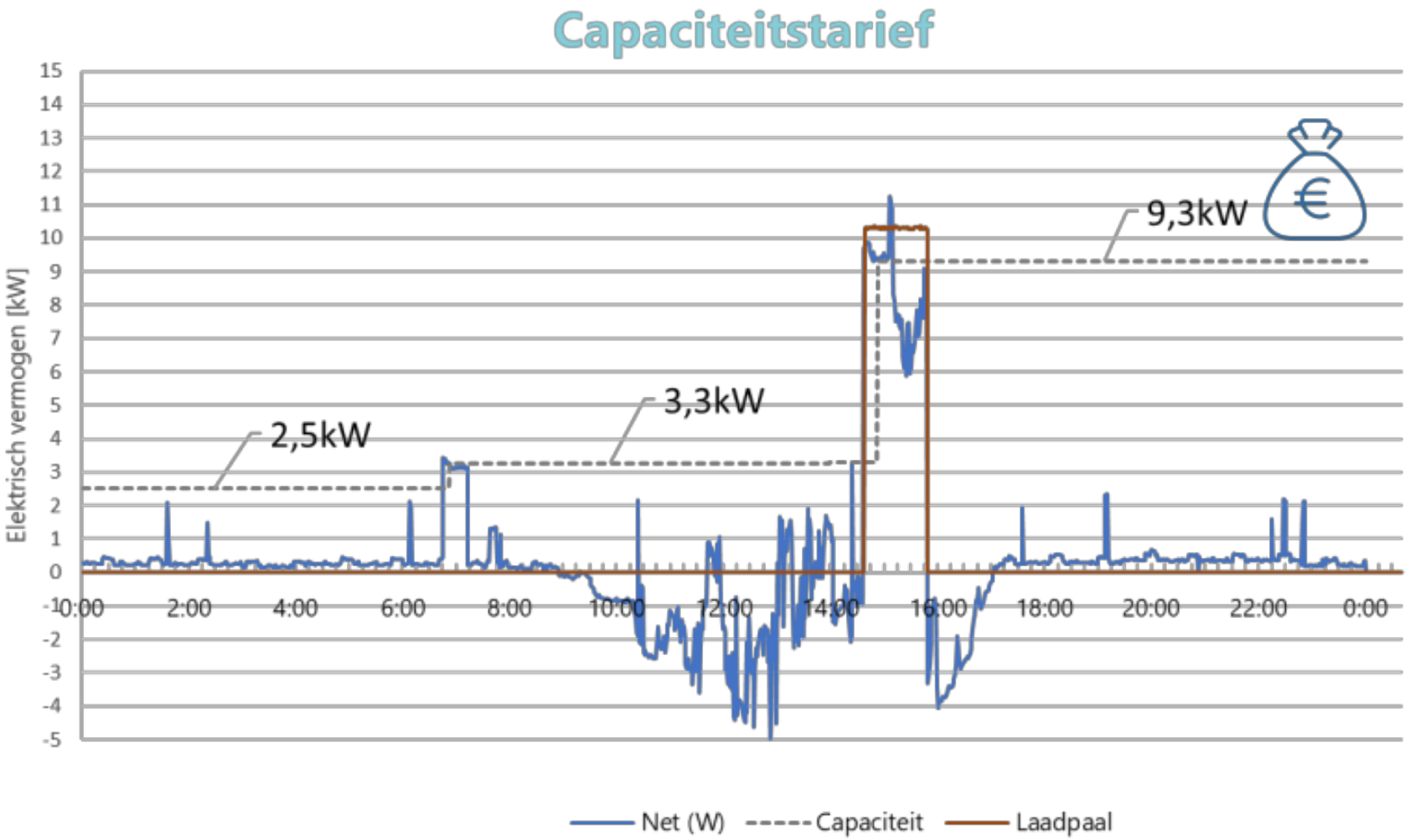
Het slimme **e**nergie**m**anagement**s**ysteem Slimmie



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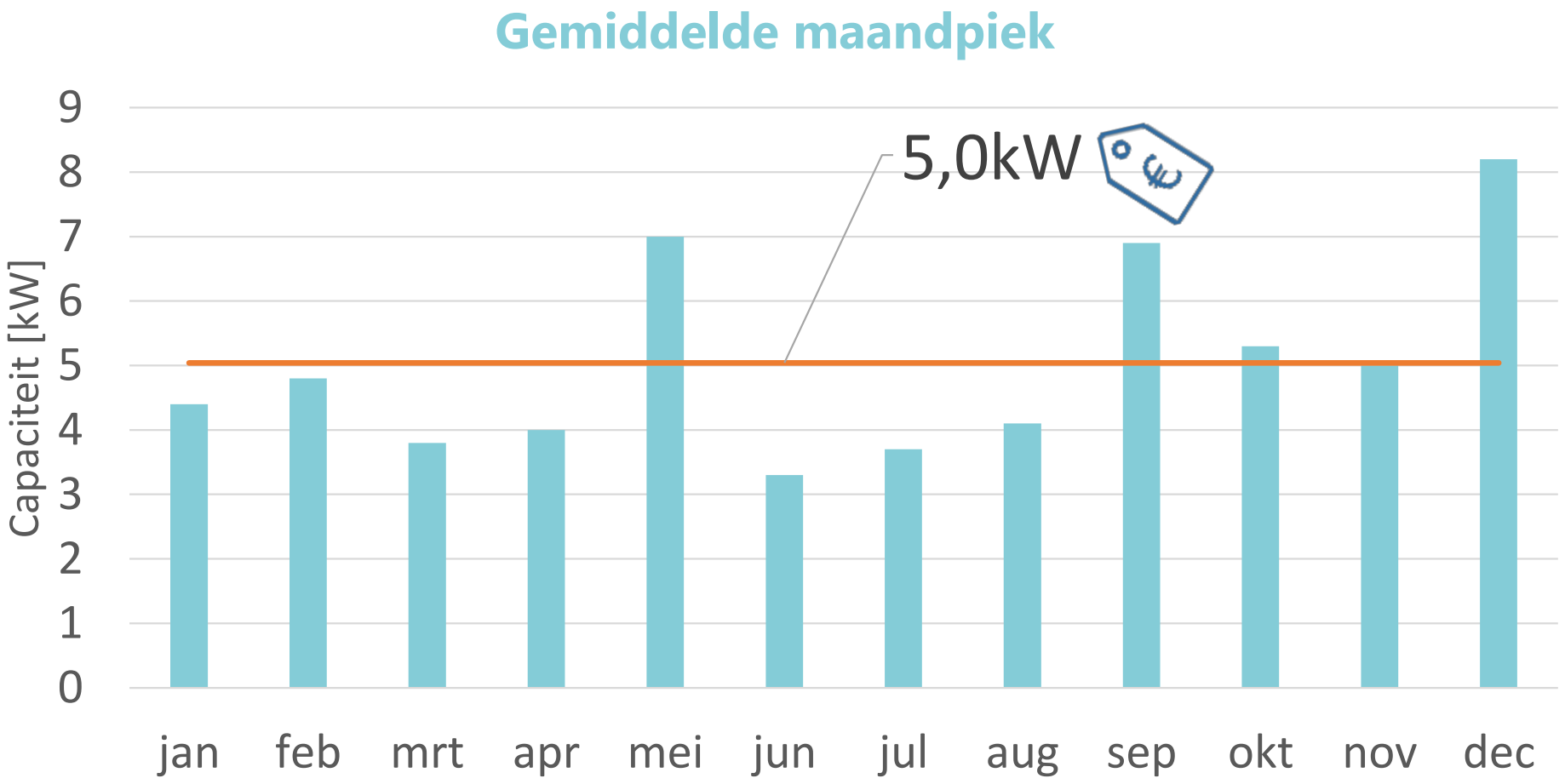
Het slimme **e**nergie**m**anagement**s**ysteem Slimmie



Op jaarbasis: 39,93 euro euro (excl. BTW)

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Waarom Slimmie

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Wat doet Slimmie?

Meten
- Real-time energiestromen in kaart brengen

Minderen
- Door bewustmaking

Pieken vermijden
- Spreiden
- Beperken maximale afname

Eigenverbruik verhogen
- Optimalisatie van zelfconsumptie

Sturen
- Timers instellen
- Slim aansturen

Energiecontract
- Sturing afstemmen op energiecontract

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Bron: 6 basisprincipes voor een lagere elektriciteitsfactuur | VREG

Waarom Slimmie

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Wat doet Slimmie?

- Management van meerdere types elektrische toestellen

net

batterij

warmtepomp

laadpaal

boiler

zonnepanelen

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Waarom Slimmie

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Wat doet Slimmie?

- **Sturen** wanneer welk elektrisch toestel ingeschakeld wordt of wanneer het nuttig is om elektriciteit op te slaan in een warmtepompboiler, een batterij van een elektrische wagen of een thuisbatterij.

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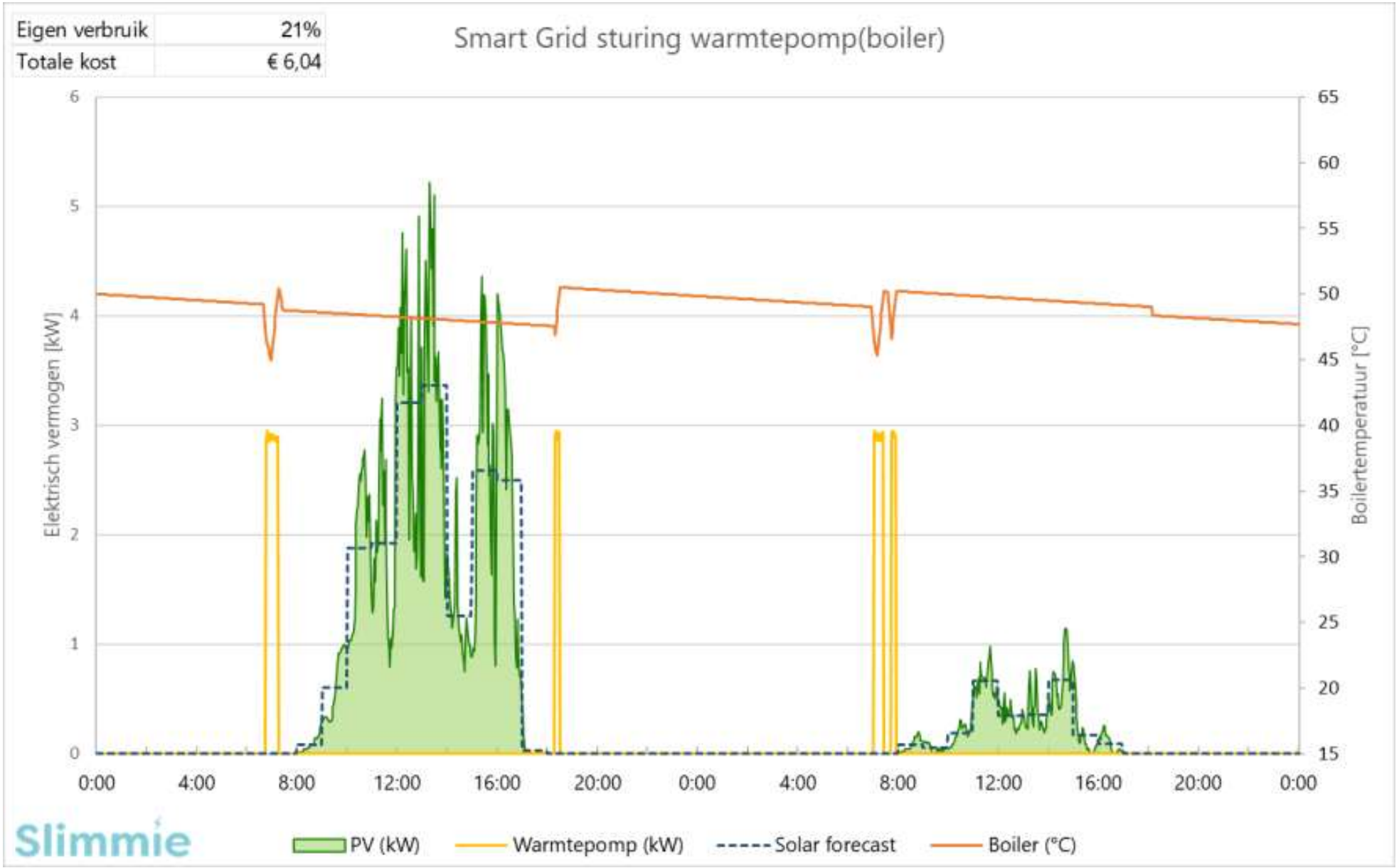
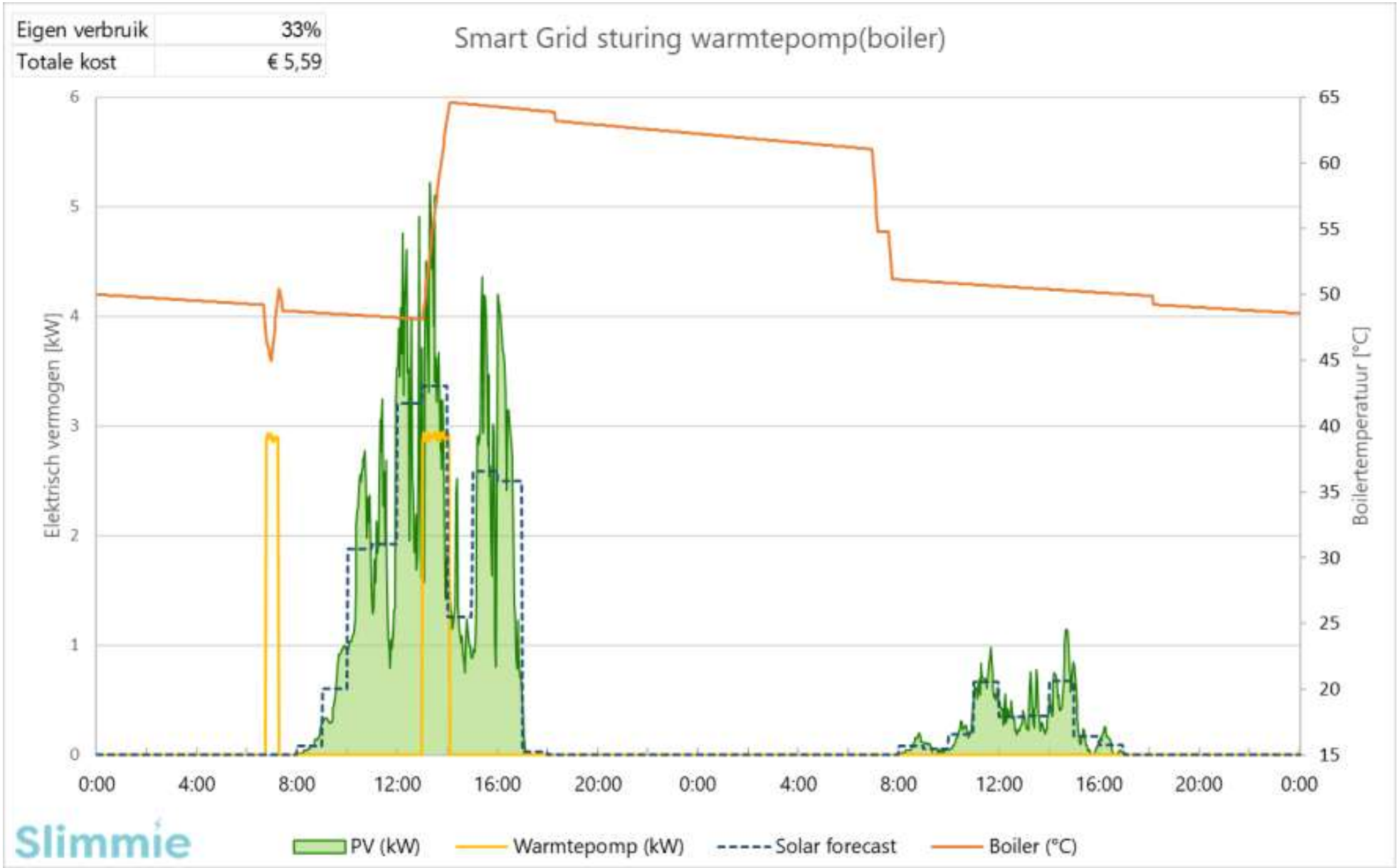
Smart Grid sturing warmtepompboiler



Case volgens NBN EN 15450 gemiddeld dagelijks warm waterverbruik van 1.45kWh per dag per persoon

Smart Grid sturing warmtepompboiler



Case volgens NBN EN 15450 gemiddeld dagelijks warm waterverbruik van 1.45kWh per dag per persoon

Waarom Slimmie

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Wat doet Slimmie?

- Actief **pieken** in het elektriciteitsgebruik **verlagen**, wat nuttig kan zijn voor het beperken van het capaciteitstarief.

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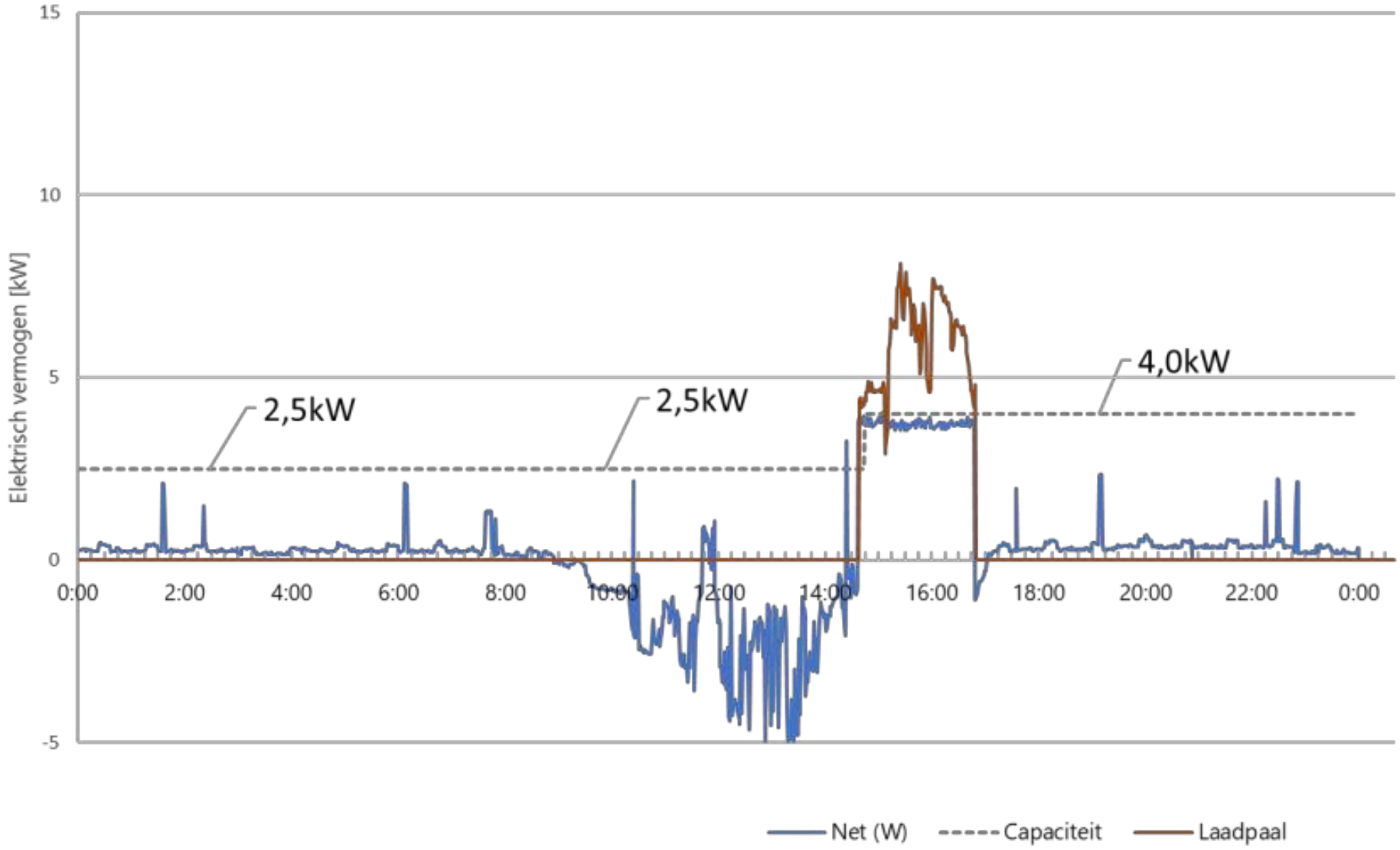
Beperken capaciteitstarief



Waarom Slimmie

Slimmer Thuis

Wat doet Slimmie?

- Bij gebruik van een dynamisch elektriciteitscontract stroom te kopen en injecteren aan de meest interessantste tarieven

Slimmie verhoogt het rendement van zonnepanelen en thuisbatterij, maakt je minder afhankelijk van het elektriciteitsnet en hoge elektriciteitsprijzen.

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Waarom Slimmie

Slimmer Thuis

Wat doet Slimmie?

- Bij gebruik van een dynamisch elektriciteitscontract stroom te gebruiken, op te slaan en te injecteren aan de meest interessantste tarieven

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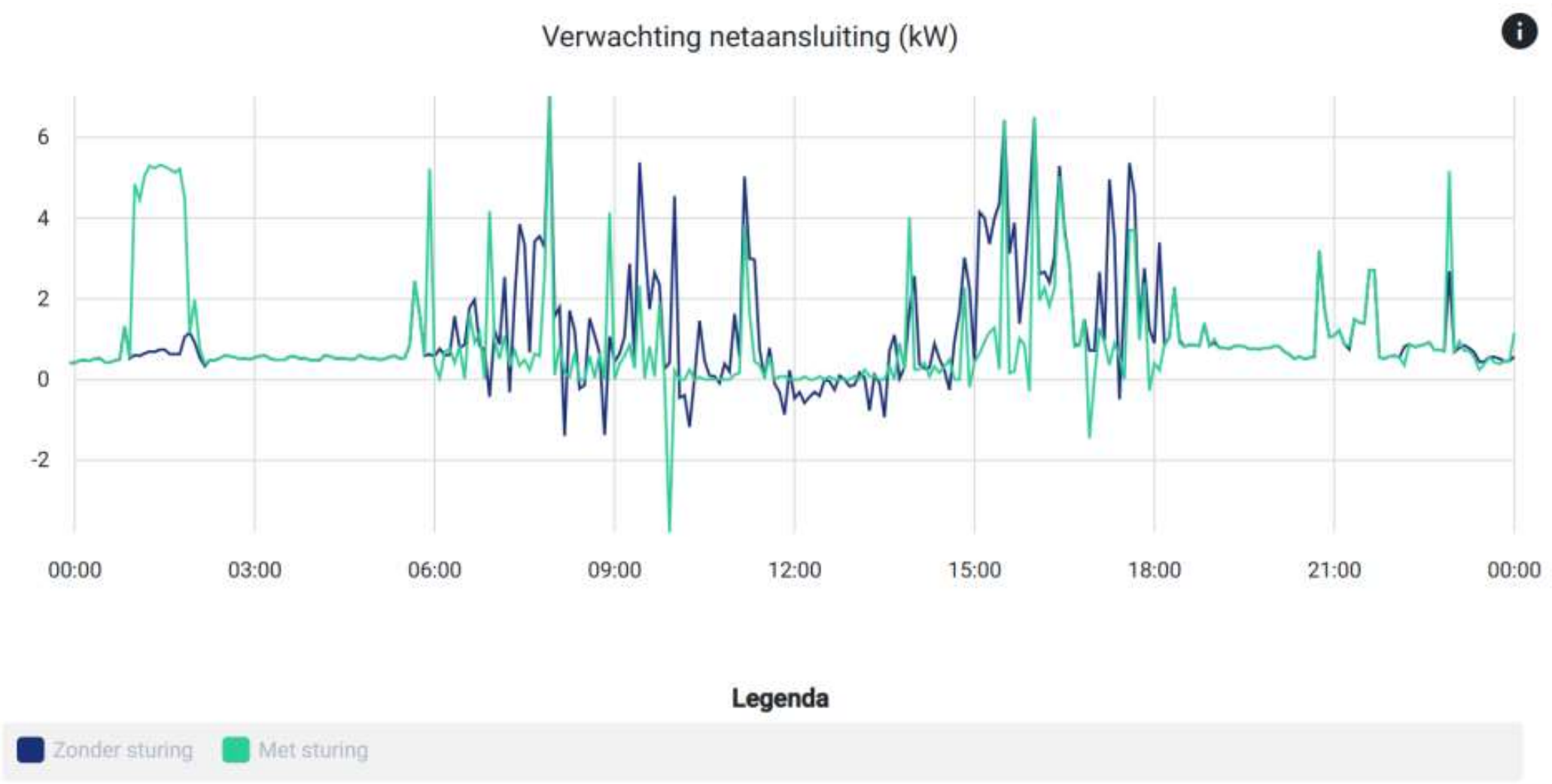
Optimalisatie energieprijzen
Met thuisbatterij



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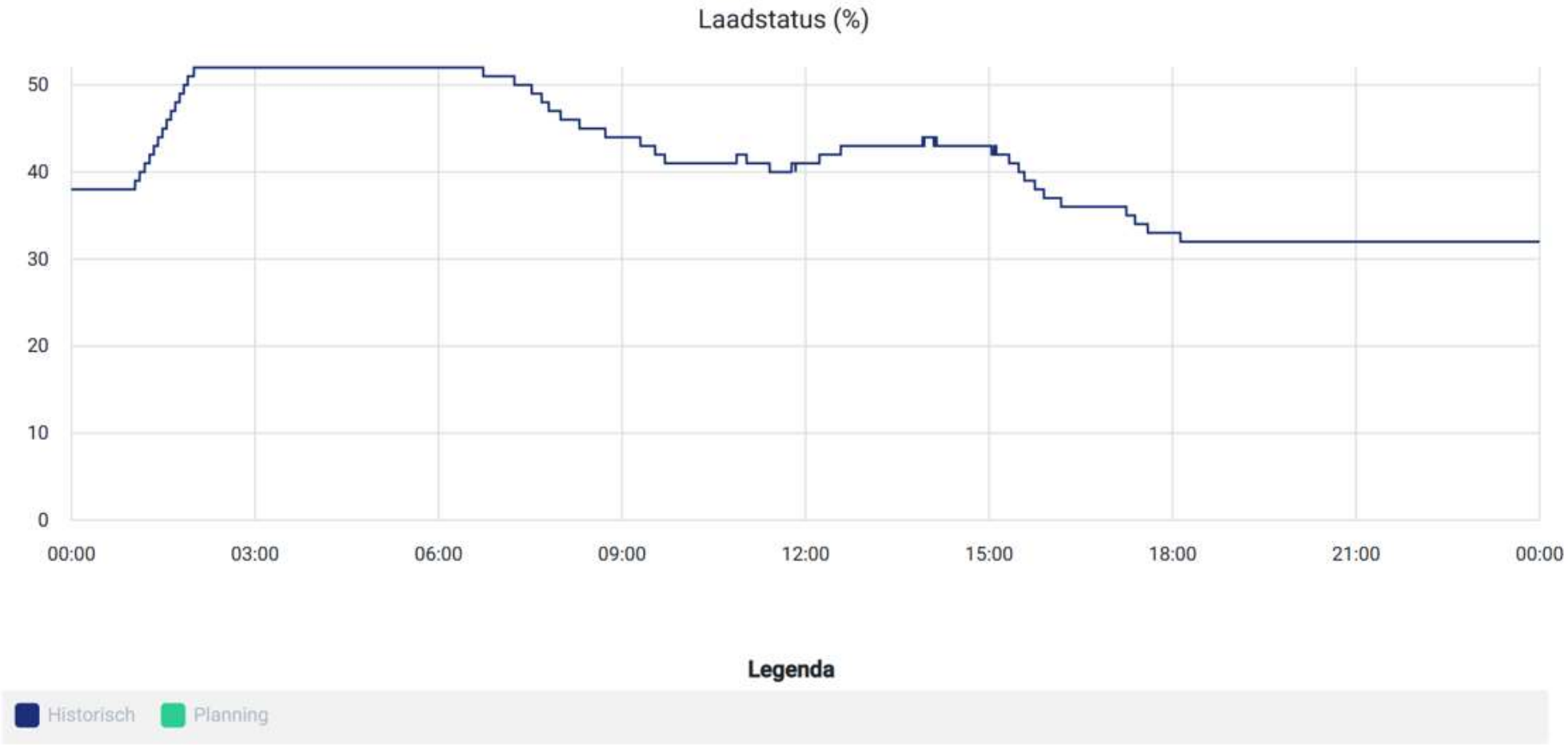
Optimalisatie energieprijzen
Met thuisbatterij



Slimmie
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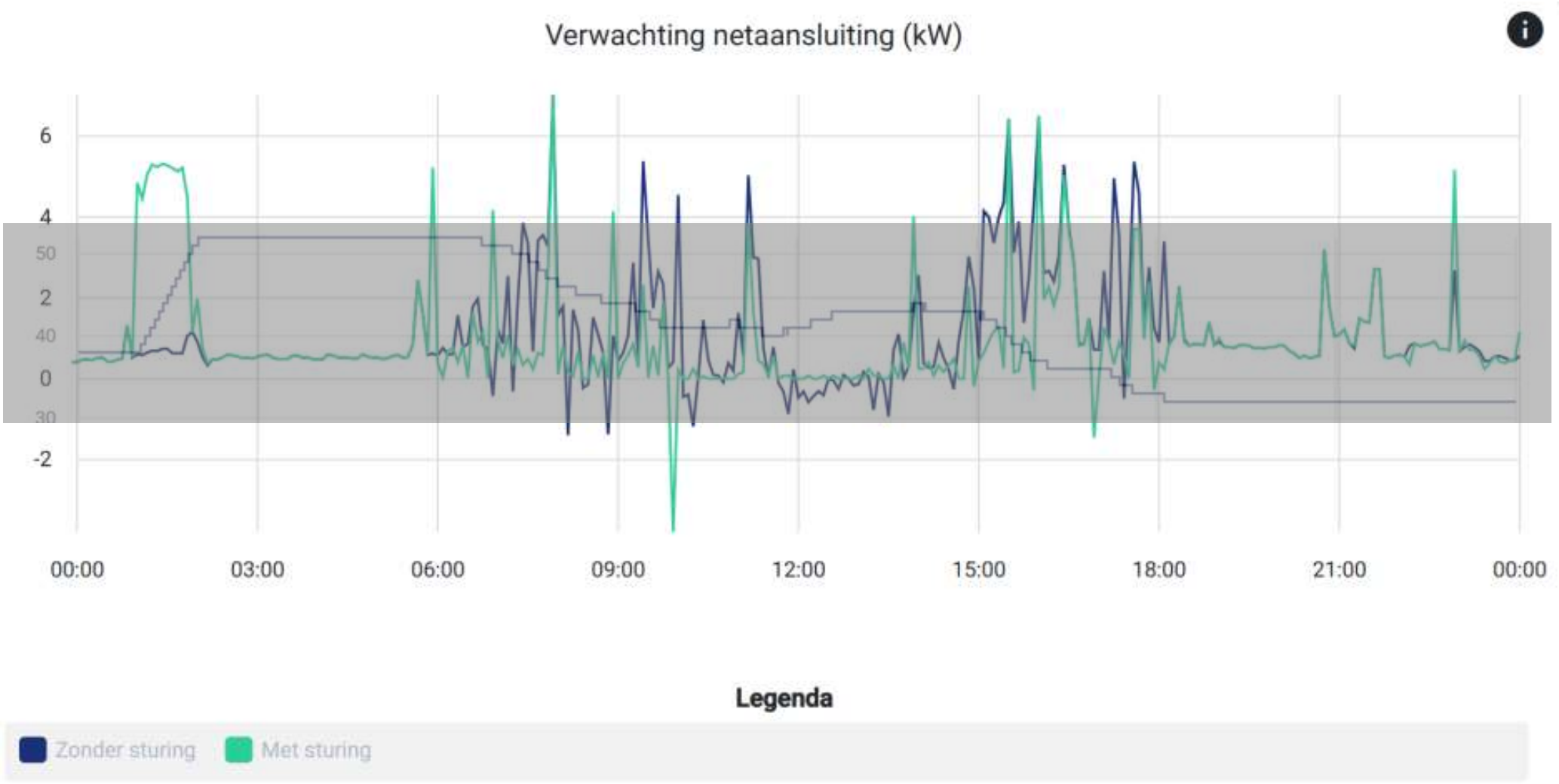
Optimalisatie energieprijzen
Met thuisbatterij



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Waarom Slimmie

Slimmer Thuis

Wat doet Slimmie?

- Integratie van meest courante merken op de markt

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Waarom Slimmie

Slimmer Thuis

Waarom Slimmie?

- Geen programmatie; configuratie via Wizard
- Ingrijpen op instellingen mogelijk
    - Keuze van controlemodus per (type) apparaat
    - Instellen maximaal afnamevermogen / terugleververmogen
- Zelflerende algoritmes die de regeling afstemmen op het verbruiksprofiel van de klant

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Waarom Slimmie

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Waarom Slimmie?

- Ingebouwde hardware voor aansturing van apparaten

Netwerk interface	1 x RJ45 Gigabit ethernet
Seriële interface	RS485 (Met instelbare afsluit & BIAS weerstanden) RS232
Digitale meter (P1) interface	Via meegeleverde RJ11 naar USB kabel
Digitale ingangen	2 digitale ingangen logic level: 5-50Vdc Bruikbaar als S0-puls teller
Digitale uitgangen	2 digitale uitgangen (Relays), wisselcontact 250VAC 1A bij $\cos^{\varphi} = 1$ 50VDC 1A

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Waarom Slimmie

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Waarom Slimmie?

- Technische oplossingen

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Waarom Slimmie

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Waarom Slimmie?

- Technische oplossingen

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Waarom Slimmie

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Waarom Slimmie?

- Technische oplossingen

Slimmie
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Waarom Slimmie

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Waarom Slimmie?

Samengevat:

- Eenvoudige configuratie, maar uitgebreid in mogelijkheden
- All-In-One toestel met ingebouwde interfaces
- Toepasbaar op bestaande en nieuwe installaties
- Schaalbaar

Eén systeem geschikt voor alle situaties

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Installatie

Slimmie Core

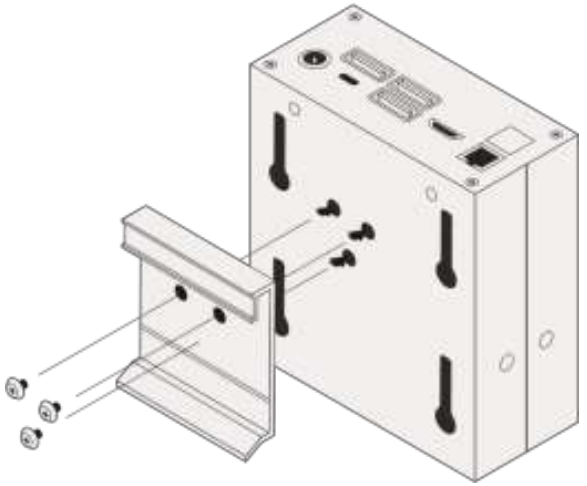
Installatie

Slimmie Core

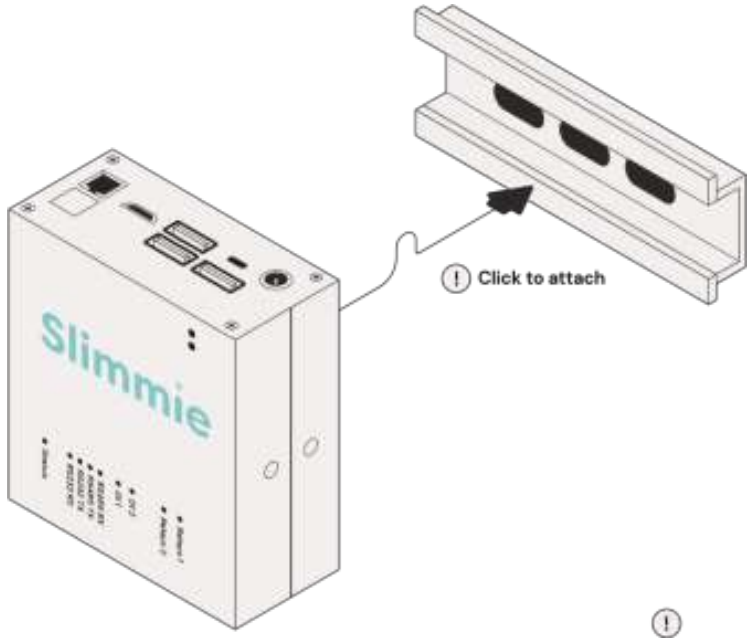
- **Installatie op DIN-rail**

1. Monteer de montageplaat

   ⚠Gebruik uitsluitend de 3 schroeven die bij het product zijn geleverd.



2. Duw en klik het apparaat via de montageplaat voorzichtig op een DIN-rail



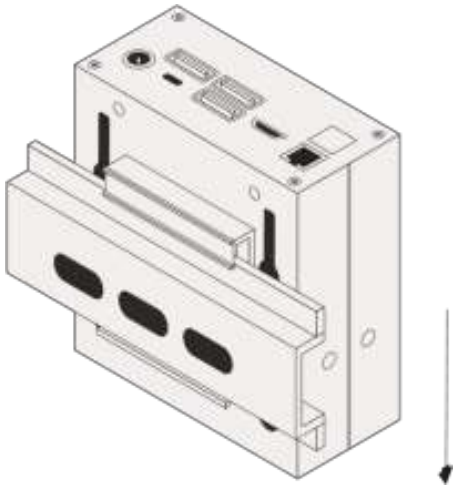
Slimmie
Slimmer thuis

Installatie

Slimmie Core

- **Verwijderen van DIN-rail**

  - Om los te maken, druk je de Slimmie naar beneden totdat de beugel de DIN-rail loslaat



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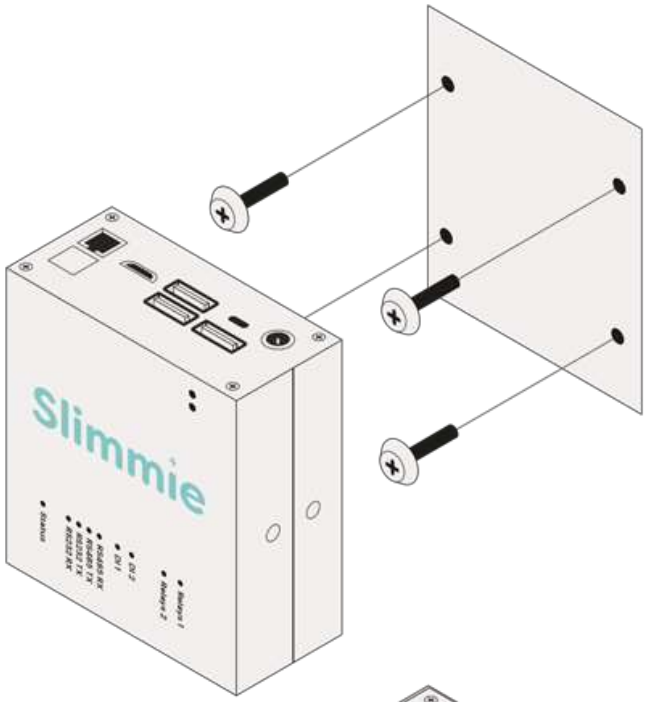
Installatie

Slimmie Core

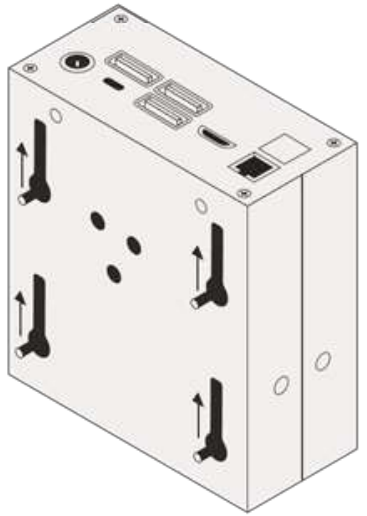
- **Installatie op de muur**

1. Meet en boor 4 gaten in de muur.



2. Schuif de schroeven die aan de muur zijn bevestigd in de gaten van het apparaat.

3. Schuif het apparaat voorzichtig naar beneden totdat de schroeven de bovenkant van elk gat raken.



Slimmie
Slimmer thuis

Installatie

Slimmie Core

- **Aarding**

De behuizing van het apparaat moet altijd geaard worden, via de aardaansluiting op de behuizing.

Bij plaatsing:

- In een elektriciteitskast
- In de buurt van bekabeling
- Met signalen die niet afkomstig zijn van een gescheiden circuit of een circuit met extra lage veiligheidsspanning (SELV);

Installatie

Slimmie Core

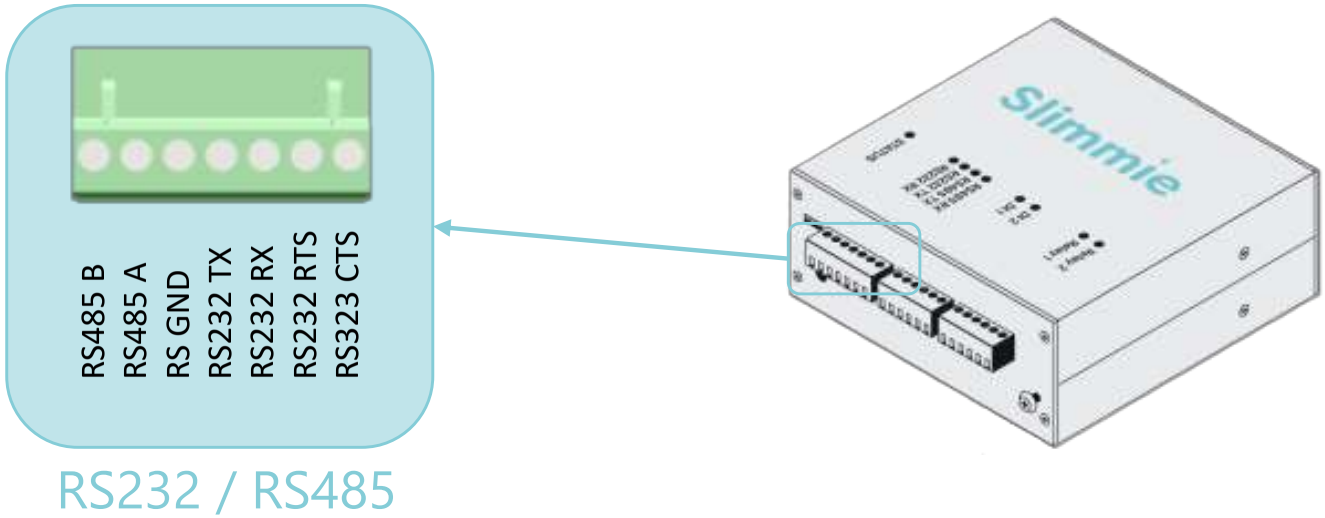
- **Aansluiting connectiviteit**

1. Sluit de netwerkkabel aan op de RJ45-poort van de Slimmie Core
2. Plaats de Wi-Fi service dongle
3. Sluit de voedingskabel aan.

Installatie

Aansluiting Apparaten

- **Voorbeeld: (Hybride) omvormer met RS485**

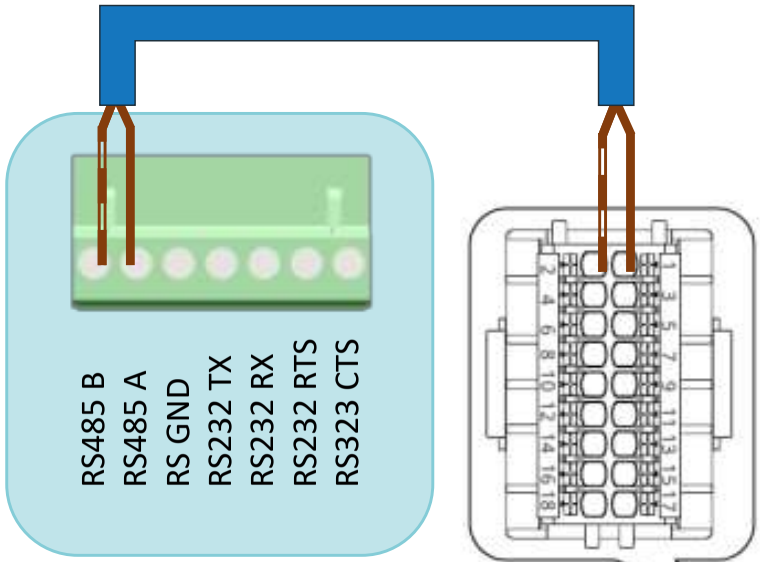


RS232 / RS485

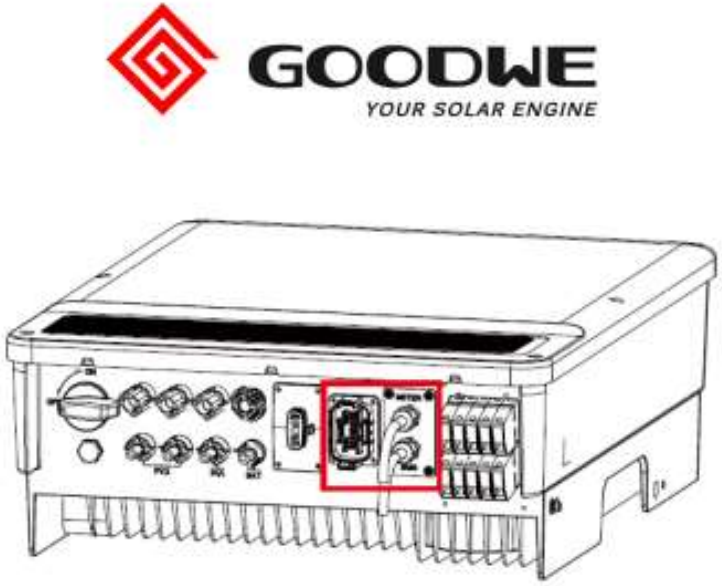
Installatie

Aansluiting Apparaten

- **Voorbeeld: (Hybride) omvormer met RS485**



RS232 / RS485

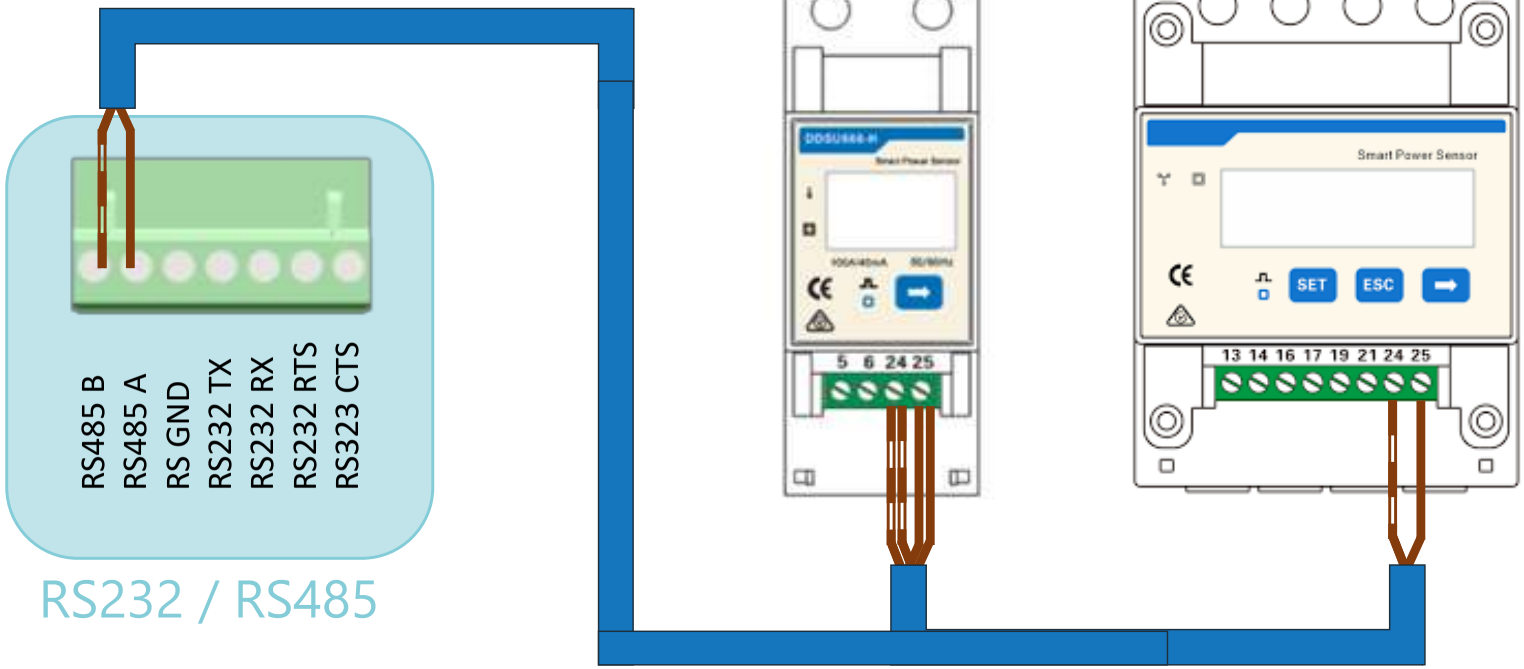


PIN	Definition	Function	PIN	Definition	Function
1	485_A1	RS485/EMS	9	Remote Shutdown	Remote Shutdown
2	485_B1		10	GND-S	

Installatie

Aansluiting Apparaten

- **Voorbeeld: Energiemeters met RS485 (DTSU666)**



Toepassing: meting extra apparaten (warmtepomp, verdeelkast,...)

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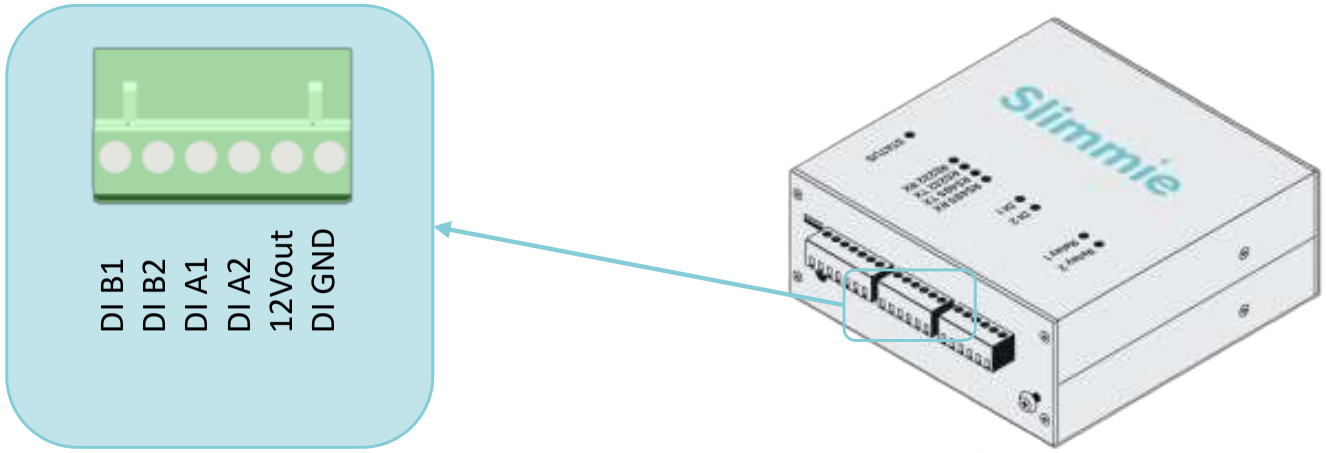
Installatie

Aansluiting Apparaten

- **Voorbeeld: S0-puls op digitale ingang**

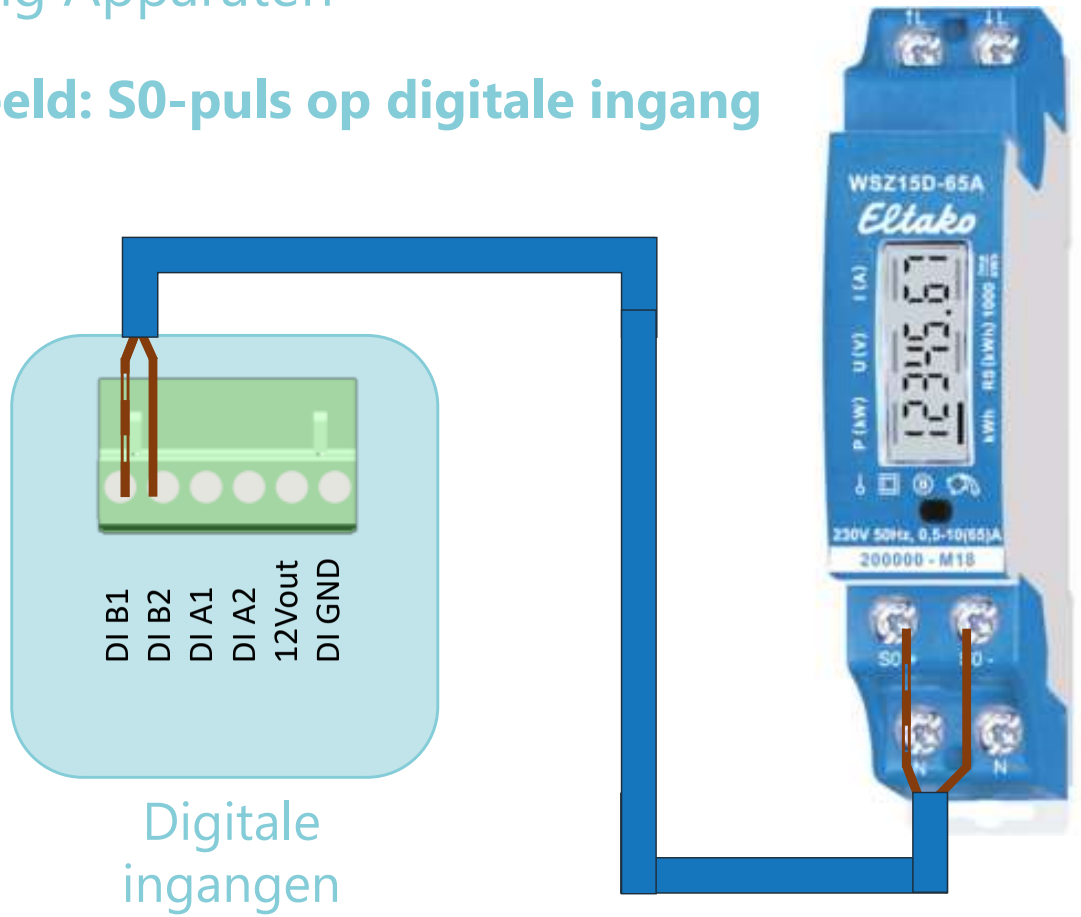


Digitale ingangen

Installatie

Aansluiting Apparaten

- **Voorbeeld: S0-puls op digitale ingang**



Digitale ingangen

Toepassing: meting bestaande omvormer (GSC-teller)

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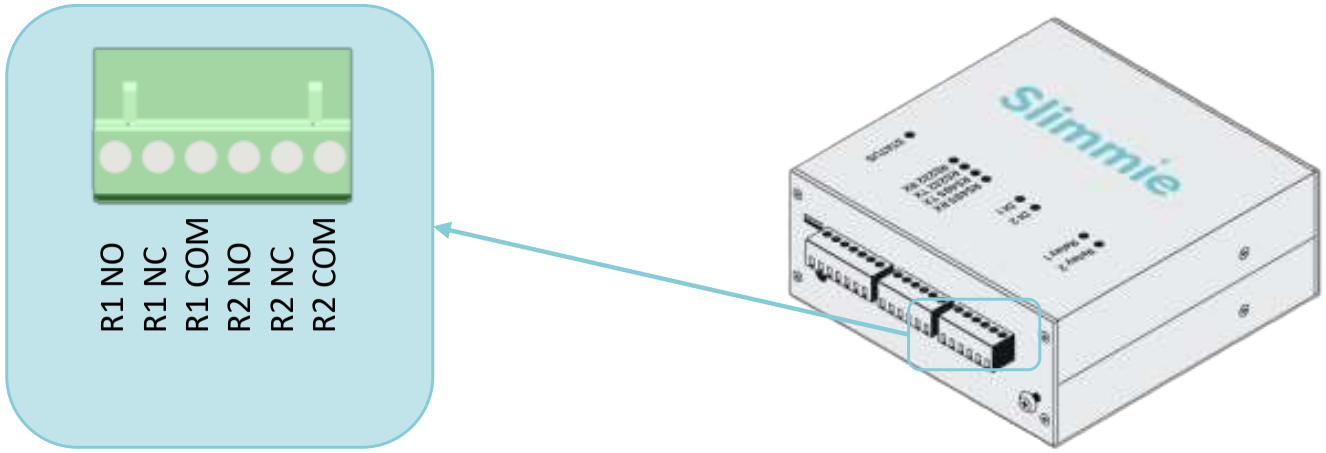
Installatie

Aansluiting Apparaten

- **Voorbeeld: Smart Grid-contact op digitale uitgang**

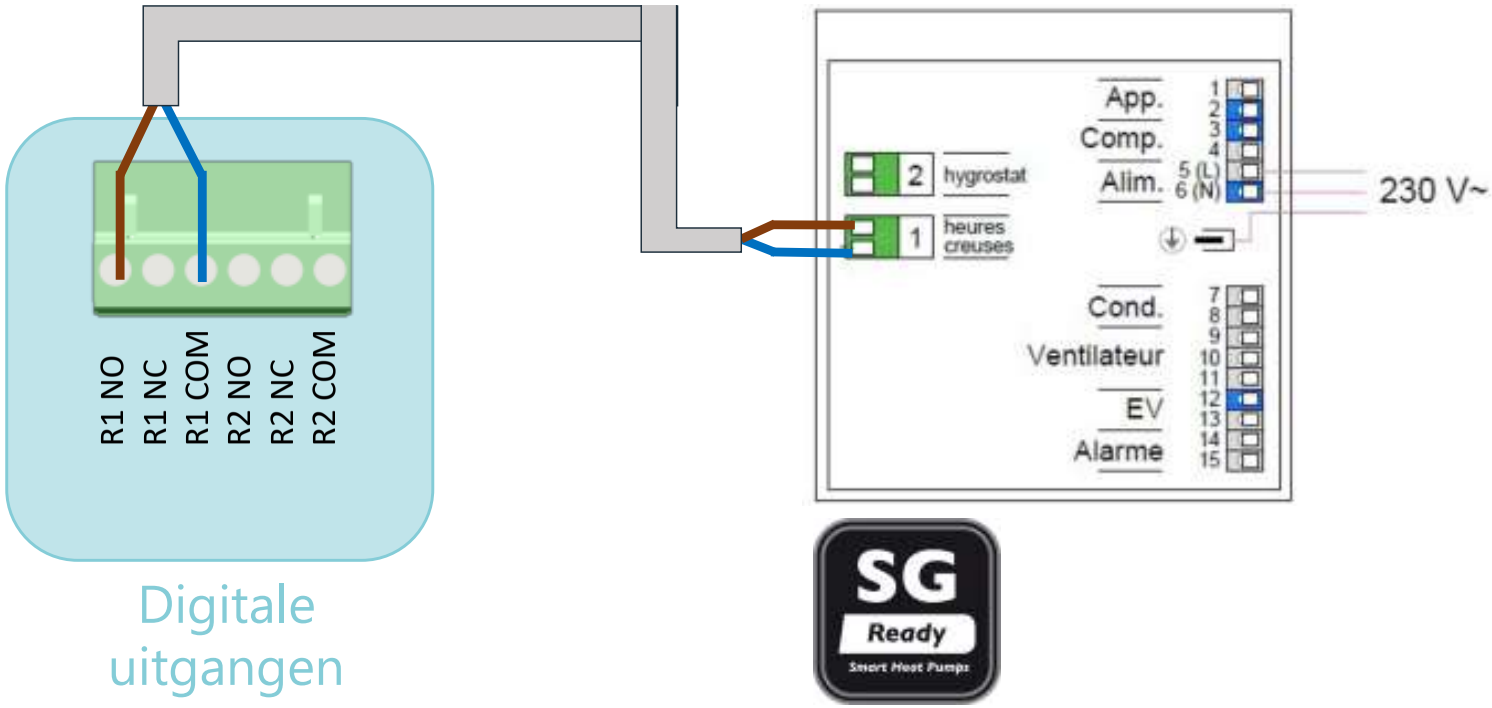


Digitale uitgangen

Installatie

Aansluiting Apparaten

- **Voorbeeld: Smart Grid-contact op digitale uitgang**



Toepassing: sturing Vaillant warmtepompboiler (PV ECO-functie)

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Installatie

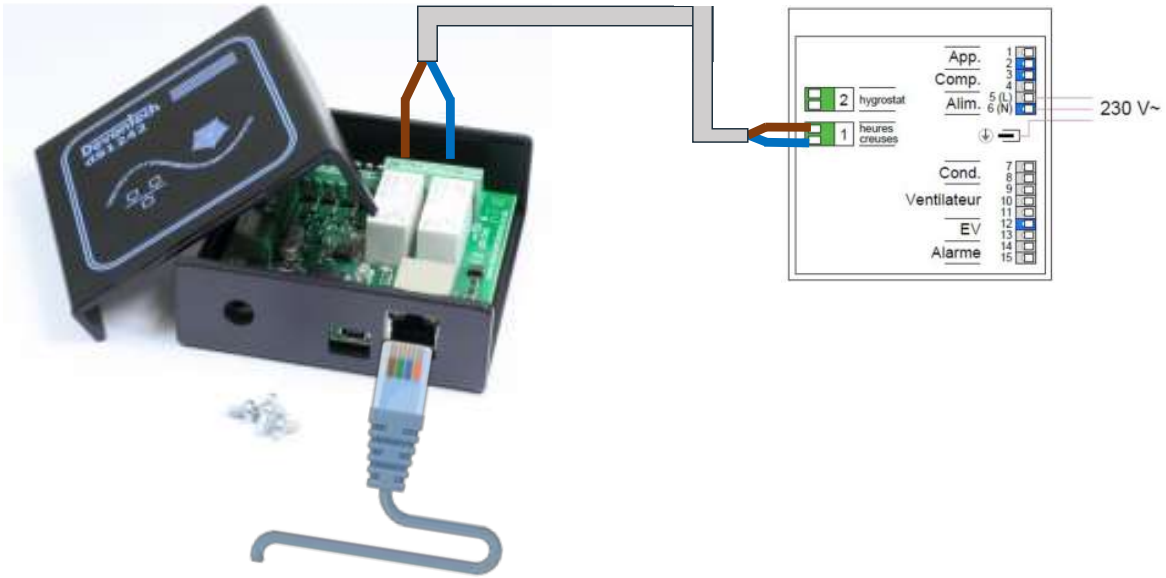
Aansluiting Apparaten

- **Voorbeeld: Ethernet (ModbusTCP) – Remote RS485 gateway**

Installatie

Aansluiting Apparaten

- **Voorbeeld: Ethernet (ModbusTCP) – Remote relay**



Installatie

Aansluiting Apparaten

- **Voorbeeld: Ethernet (ModbusTCP) – Laadpaal**

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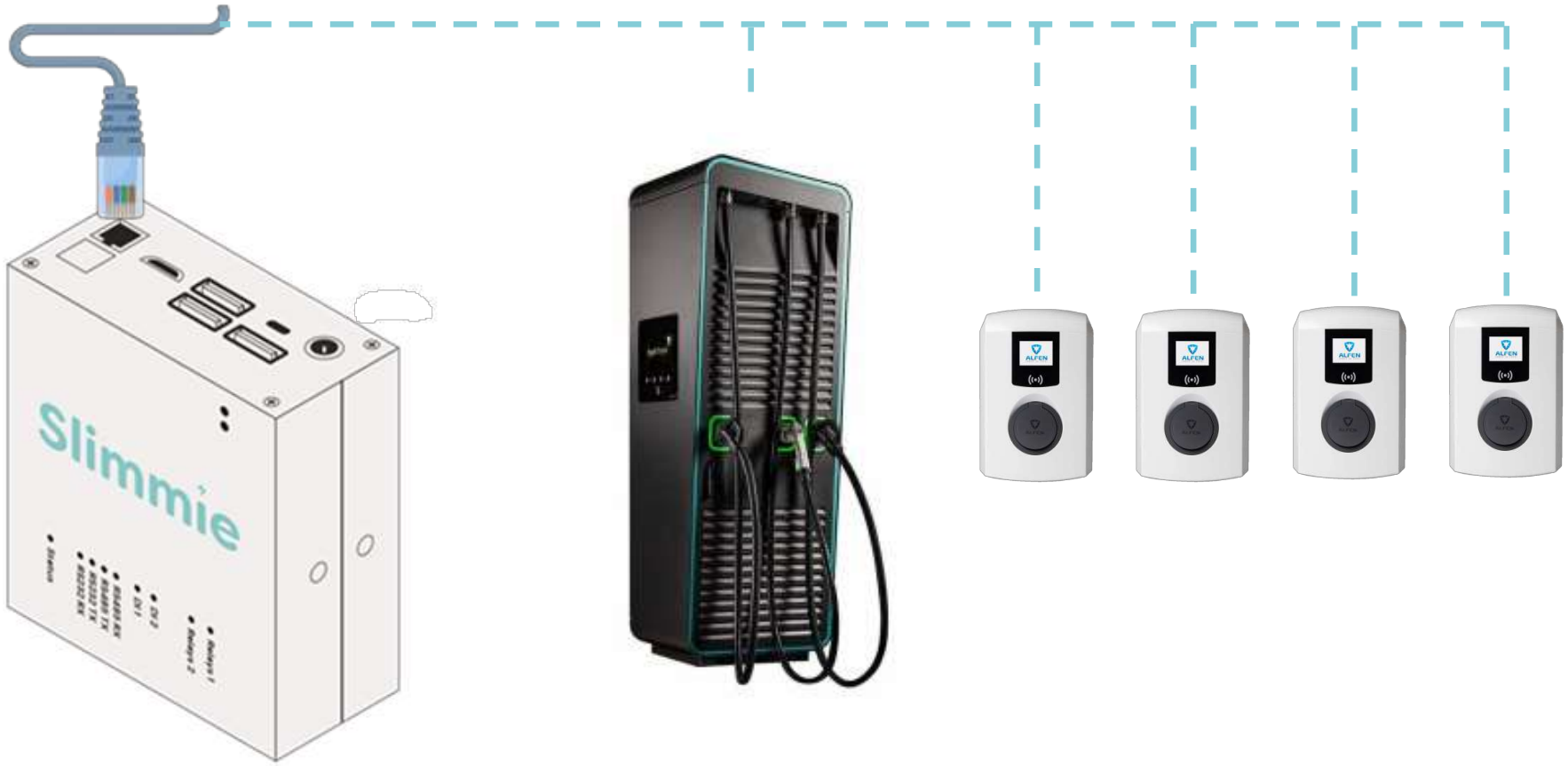
Aansluiting Apparaten

- **Voorbeeld: Ethernet (ModbusTCP) – Laadplein**



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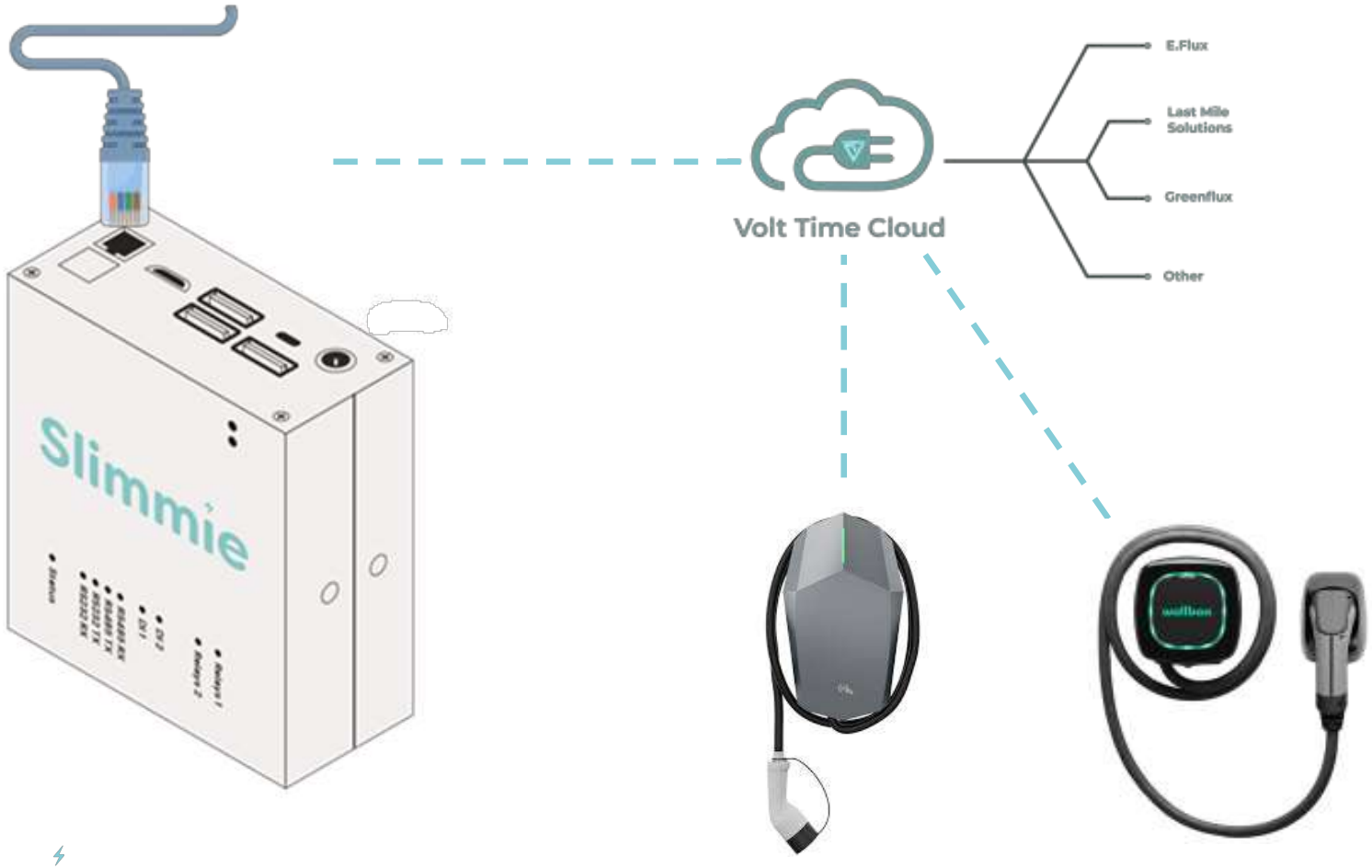
Aansluiting Apparaten

- **Voorbeeld: Ethernet (Cloud*) – Laadpaal met backend**



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* Functie verwacht vanaf Q1 2024

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Configuratie

Verbinding maken met configuratiepagina

Via lokaal netwerk (LAN)

1. Verbind Slimmie via ethernet en sluit de voeding aan.
2. Download een IP-scanner zoals Advanced IP Scanner (Windows) of Fing (Android & IOS).
3. Scan naar het IP-adres van de controller in het netwerk.
   U kunt de controller identificeren aan de hand van het MAC-adres
4. Open een webbrowser en surf naar het IP-adres van de controller, b.v. http://192.168.1.123

Configuratie

Verbinding maken met configuratiepagina

Via Service Dongle (WiFi)

1. Zorg ervoor dat Slimmie is ingeschakeld.
2. Sluit de Wi-Fi-service dongle aan op een van de USB-poorten.
   Wacht 1-2 minuten totdat het Wi-Fi-netwerk van de service dongle zichtbaar is.
3. Maak verbinding met het WiFi netwerk (ww: SGC_SERVICE)
4. Open een webbrowser en surf naar http://controller.config..
   (Alternatief: http://192.168.34.1)

Slimmie

Log in to your Slimmie Core:

Username

Enter Username

Password

Enter Password

Login

Default username: admin. Default password: admin

Serial number: OM1230330AOOSB5C6E6
Software version: 1.2.4.3
Commit:

Cloud connection: ok

Status

Serial number: OM1230330AOOSB5C6E6

Software version: 1.2.4.3

Cloud connection: ok

Controller setup

Follow the steps below to set up your controller.

Step 1: Set the location of the controller

✅ *Completed. You can change the location from the settings page if needed.*

Step 2: PV installation details

✅ *Completed. You can change the configuration of your PV installation from the settings page if needed.*

Step 3: Add the grid energy meter

The grid energy meter is an essential part of the installation and tells the controller the energy flow from and to the grid.

Add the grid energy meter

Step 4: Add other devices

Add the devices you want to control or monitor.

Start device wizard

Step 5: Group your devices

Group the devices in a one line schematic alike fashion so that the controller can know how everything is interconnected.
Note, there can be only one top level device in the groups and it must be the grid energy meter, a switchboard or a solar installation.

Location

Your location is needed for an accurate weather forecast. Please enter your address for the most accurate forecast, or the name of a nearby city.

Address:

8400 Oostende, Belgium

Validate address

Save address

Map

Status

Serial number: OM1230330AOOSB5C6E6

Software version: 1.2.4.3

Cloud connection: ok

Controller setup

Follow the steps below to set up your controller.

Step 1: Set the location of the controller

☑ *Completed. You can change the location from the settings page if needed.*

Step 2: PV installation details

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Panel configurator

Enter the configuration of your solar panels

Basic configurator

Total peak power of all panels (kWp) **kWp**

Submit

Panel configurator

Enter the configuration of your solar panels

Advanced configurator

Peak power (kWp) *Per group of solar panels*	Azimuth (°) *This is the angle between north and the direction the solar panels are facing. North is 0°, east is 90°, south 180° and west 270°.*	Tilt (°) *This is the angle of the roof or the solar panels' support and the ground. In the Benelux this is commonly around 45°.*	Action
Peak power (kWp)	Azimuth (°)	Tilt (°)	+

Submit

Status

Serial number: OM1230330AOOSB5C6E6

Software version: 1.2.4.3

Cloud connection: ok

Controller setup

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Slimmie
Home
Devices
Groups
External data sources
Sync to Insights
Settings
Debugger
Wiki
Logout
Choose one of the supported brands
If your brand is not listed, contact info@slimmie.be to request a new integration.
algodue ELETTRONICA
CARLO GAVAZZI
CHINT
EASTRON EUROPE
ENIRIS MONITOR & CONTROL
fluvius.
Fronius
M-Bus
inepro
Iskra
Janitza
KAIFA

Which interface does the device use?

Available connection interface options:

- (•) Ethernet TCP
- ( ) Ethernet TCP to RS485 converter (Solar gateway)
- ( ) RS485 Port

Next

Which protocol does the device use?

- (•) Chint - DTSU666 Modbus TCP Protocol
- ( ) Chint - DDSU666 Modbus TCP Protocol

Next

Device network parameters

Enter here the network parameters of the device or the converter/gateway used to access the device.

▶ **Option 1: Add by MAC address (recommended for networks with DHCP):**

▶ **Option 2: Add by fixed IP adress, domain or hostname:**

Device network parameters

Enter here the network parameters of the device or the converter/gateway used to access the device.

▼ Option 1: Add by MAC address (recommended for networks with DHCP):

MAC Address	IP Address	Vendor	Actions
00:11:32:FC:E4:95	192.168.0.107	Synology Incorporated	Select
00:17:88:40:A1:88	192.168.0.240	Philips Lighting BV	Select
00:40:AD:A8:8F:55	192.168.0.52	SAJ | SMA	Select
24:5A:4C:16:F4:FA	192.168.0.3	Ubiquiti Networks Inc.	Select
3C:9C:0F:F5:A6:81	192.168.0.22	Intel Corporate	Select
50:4F:94:10:49:B8	192.168.0.226	Loxone Electronics GmbH	Select
50:4F:94:E0:67:A0	192.168.0.10	Loxone Electronics GmbH	Select
70:88:6B:14:3F:33	192.168.0.26		Select
70:B3:D5:CF:51:3D	192.168.0.8	IEEE Registration Authority	Select
78:45:58:F2:DC:C4	192.168.0.5	Ubiquiti Networks Inc.	Select
78:8A:20:4B:0C:F1	192.168.0.12	Ubiquiti Networks Inc.	Select
82:7F:23:A5:3C:1E	192.168.0.49		Select
84:0D:8E:3D:F9:44	192.168.0.51	Espressif Inc.	Select
88:A9:A7:18:6F:8D	192.168.0.50	Solar Edge	Select

3C:9C:0F:F5:A6:81	192.168.0.22	Intel Corporate	Select
50:4F:94:10:49:B8	192.168.0.226	Loxone Electronics GmbH	Select
50:4F:94:E0:67:A0	192.168.0.10	Loxone Electronics GmbH	Select
70:88:6B:14:3F:33	192.168.0.26		Select
70:B3:D5:CF:51:3D	192.168.0.8	IEEE Registration Authority	Select
78:45:58:F2:DC:C4	192.168.0.5	Ubiquiti Networks Inc.	Select
78:8A:20:4B:0C:F1	192.168.0.12	Ubiquiti Networks Inc.	Select
82:7F:23:A5:3C:1E	192.168.0.49		Select
84:0D:8E:3D:F9:44	192.168.0.51	Espressif Inc.	Select
88:A9:A7:18:6F:8D	192.168.0.50	Solar Edge	Select
9C:A5:25:AD:64:03	192.168.0.7	Shandong USR IOT Technology Limited	Select
CC:C0:79:D5:1D:39	192.168.0.148	Murata Manufacturing Co., Ltd.	Select
CC:C0:79:D6:90:65	192.168.0.203	Murata Manufacturing Co., Ltd.	Select
F0:81:75:38:A3:C3	192.168.0.1	Sagemcom Broadband SAS	Select
F4:26:79:AE:90:75	192.168.0.48	Intel Corporate	Select
F8:D0:27:33:9F:E4	192.168.0.30	Seiko Epson Corporation	Select

Refresh table

▸ **Option 2: Add by fixed IP adress, domain or hostname:**

Summary of the scan parameters

The controller will look for devices according to the parameters below. The default presented parameters are based on what are the possible parameters for a device. Feel free to go with the defaults for a full scan, or adapt them to your needs for a faster scan.

Search

▶ **Show scan parameters**

Scanning

End scan & go to results

Found devices: (Autoscroll)

```
INFO: Found <class 'io_controller.drivers.socketDrivers.modbus.chint.DTSU666.DTSU666EnergyMeter'> with serial number SiBUouDcSvLSkORn-DTSU666-1 and with serial bus address 1
```

Scan log: (Autoscroll)

```
DEBUG: No device found with serial bus address 111
INFO: Scanning for <class 'io_controller.drivers.socketDrivers.modbus.chint.DTSU666.DTSU666EnergyMeter'> with serial bus address 112
DEBUG: Sending data: 00df0000000067003154e0002
DEBUG: Received bytes:
DEBUG: Sending data: 00e0000000067003154e0002
DEBUG: Received bytes:
DEBUG: frequency_Hz: No response obtained from Modbus device
DEBUG: No device found with serial bus address 112
INFO: Scanning for <class 'io_controller.drivers.socketDrivers.modbus.chint.DTSU666.DTSU666EnergyMeter'> with serial bus address 113
DEBUG: Sending data: 00e1000000067103154e0002
DEBUG: Received bytes:
DEBUG: Sending data: 00e2000000067103154e0002
DEBUG: Received bytes:
DEBUG: frequency_Hz: No response obtained from Modbus device
DEBUG: No device found with serial bus address 113
INFO: Scanning for <class 'io_controller.drivers.socketDrivers.modbus.chint.DTSU666.DTSU666EnergyMeter'> with serial bus address 114
DEBUG: Sending data: 00e3000000067203154e0002
DEBUG: Received bytes:
DEBUG: Sending data: 00e4000000067203154e0002
```

Add a new device

With the device wizard

Start device wizard

Known devices

Name	Manufacturer	Actions	Last communication
Chint DTSU666 Energy Meter SiBUouDcSvLSkORn-DTSU666-1	Chint	Change device name Change settings Remove device	28/11/2023 11:35:10

Add a new device

With the device wizard

Start device wizard

Known devices

Name	Manufacturer	Actions	Last communication
Chint DTSU666 Energy Meter SiBUouDcSvLSkORn-DTSU666-1	Chint	Change device name Change settings Remove device	28/11/2023 12:02:58
SolarEdge SE3680HRW000BNN4 XuEgkdGMbaSxRUlA-1--73028811	SolarEdge	Change device name Change settings Remove device	28/11/2023 12:02:58
SMA SolarInverter 1930128920	SMA	Change device name Change settings Remove device	28/11/2023 12:02:59
SMA SolarInverter 1930128625	SMA	Change device name Change settings Remove device	28/11/2023 09:13:48

Status

Serial number: OM1230330AOOSB5C6E6

Software version: 1.2.4.3

Cloud connection: ok

Controller setup

Follow the steps below to set up your controller.

Step 1: Set the location of the controller

✅ *Completed. You can change the location from the settings page if needed.*

Step 2: PV installation details

✅ *Completed. You can change the configuration of your PV installation from the settings page if needed.*

Step 3: Add the grid energy meter

✅ *Completed. You can change the grid meter from the devices and groups pages if needed.*

Step 4: Add other devices

✅ *Completed. You can manage your devices from the devices page.*

Step 5: Group your devices

Group the devices in a one line schematic alike fashion so that the controller can know how everything is interconnected.
Note, there can be only one top level device in the groups and it must be the grid energy meter, a switchboard or a solar installation.

Group devices

Step 6: Sync to Insights

Synchronize the controller with the online dashboard.

Sync to Insights

Schematic overview - one line diagram of the installation

```
Distribution grid
├── Chint DTSU666 Energy Meter SiBUouDcSvLSkORn-DTSU666-1
├── SMA SolarInverter 1930128625
├── SMA SolarInverter 1930128920
└── SolarEdge SE3680HRW000BNN4 XuEgkdGMbaSxRUlA-1--73028811
```

With the groups functionality you can organize your devices as they are connected in your electrical installation, so that the controller correctly knows the electricity flow in your electrical installation. This is essential to protect your circuits from overloads and to know which energy meter measures what.

As a quick reference, in most cases you probably want to:

1. Create a group that represents your main switchboard.
2. Assign the main energy meter of the installation to this group.
3. Add your devices as members to the main switchboard.

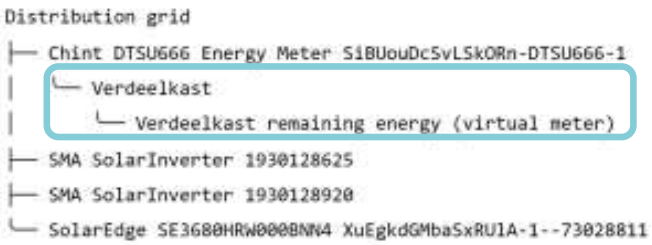
▼ **Manage existing groups**

▶ Create a new device group

▶ **Assign an energy meter to a device or a group**

▶ **Unassign an energy meter from a device or a group**

Schematic overview - one line diagram of the installation



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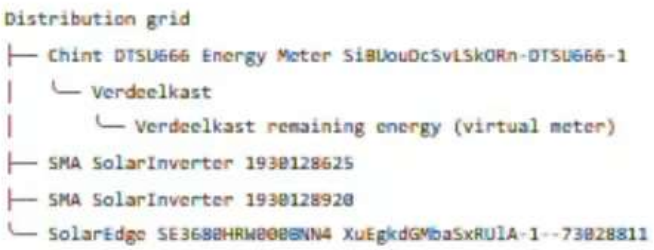
Schematic overview - one line diagram of the installation



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Schematic overview - one line diagram of the installation

```
Distribution grid
├─ Chint DTSU666 Energy Meter SiBUouDcSvLSkORn-DTSU666-1
│  └─ Verdeelkast
│     ├─ SolarEdge SE3680HRW000BNN4 XuEgkdGMbaSxRUlA-1--73028811
│     └─ Verdeelkast remaining energy (virtual meter)
├─ SMA SolarInverter 1930128625
└─ SMA SolarInverter 1930128920
```

With the groups functionality you can organize your devices as they are connected in your electrical installation, so that the controller correctly knows the electricity flow in your electrical installation. This is essential to protect your circuits from overloads and to know which energy meter measures what.

As a quick reference, in most cases you probably want to:

1. Create a group that represents your main switchboard.
2. Assign the main energy meter of the installation to this group.
3. Add your devices as members to the main switchboard.

▸ **Manage existing groups**

▸ **Create a new device group**

▸ **Assign an energy meter to a device or a group**

▸ **Unassign an energy meter from a device or a group**

Schematic overview - one line diagram of the installation

```
Distribution grid
└─ Chint DTSU666 Energy Meter SiBUouDcSvLSkORn-DTSU666-1
   └─ Verdeelkast
      ├─ SMA SolarInverter 1930128625
      ├─ SMA SolarInverter 1930128920
      ├─ SolarEdge SE3680HRW000BNN4 XuEgkdGMbaSxRUlA-1--73028811
      └─ Verdeelkast remaining energy (virtual meter)
```

With the groups functionality you can organize your devices as they are connected in your electrical installation, so that the controller correctly knows the electricity flow in your electrical installation. This is essential to protect your circuits from overloads and to know which energy meter measures what.

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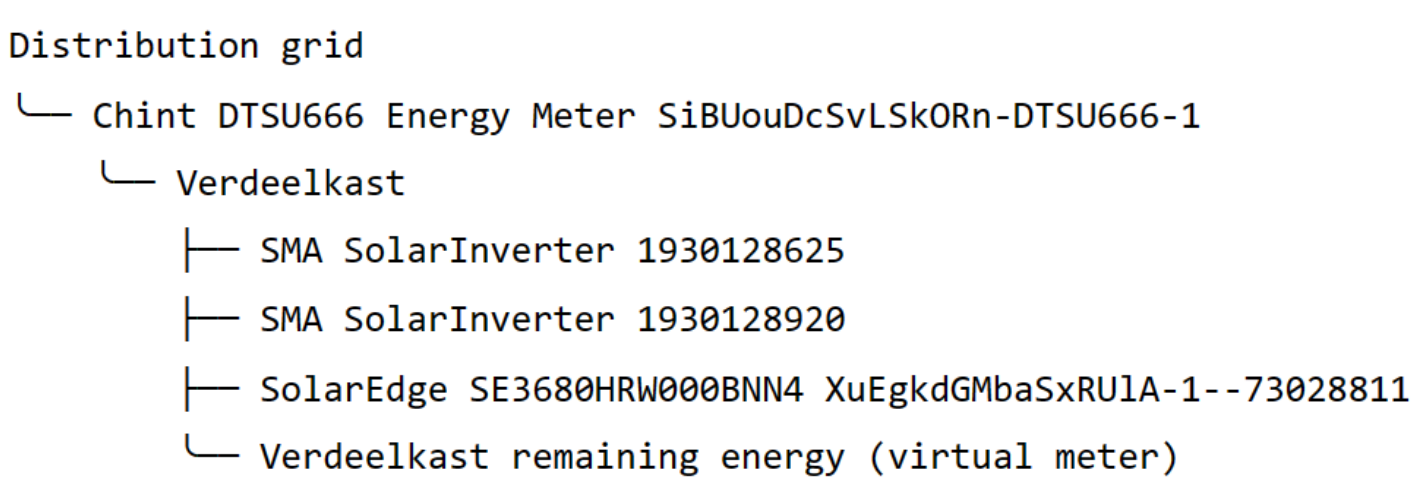
▸ **Unassign an energy meter from a device or a group**

Configuratie

Schematic overview - one line diagram of the installation



Status

Serial number: OM1230330AOOSB5C6E6

Software version: 1.2.4.3

Cloud connection: ok

Controller setup

Follow the steps below to set up your controller.

Step 1: Set the location of the controller

✅ *Completed. You can change the location from the settings page if needed.*

Step 2: PV installation details

✅ *Completed. You can change the configuration of your PV installation from the settings page if needed.*

Step 3: Add the grid energy meter

✅ *Completed. You can change the grid meter from the devices and groups pages if needed.*

Step 4: Add other devices

✅ *Completed. You can manage your devices from the devices page.*

Step 5: Group your devices

✅ *Completed. You can manage your groups from the groups page.*

Step 6: Sync to Insights

Synchronize the controller with the online dashboard.

Sync to Insights

Login with your Insights account to sync devices

Username

Username

Password

Password

Stay logged in

Login

Sync to Insights

You must be logged on to sync to Insights.

Slimmie

Home | Devices | Groups | External data sources | Sync to Insights | Settings | Debugger | Wiki | Logout

Login with your Insights account to sync devices

You are already logged in.

Logout

Sync to Insights

Select the dashboard to which you want to sync your devices:

Eco-Tronic Eigen Installaties

Select the EMS dashboard template you want to use:

Standard residential dashboard

Verification code (see device label):

Enter verification code

☐ Completely replace any existing dashboard

Sync

Synchronization status:

Synchronization succesful.

Inhoud

Slimmie
Slimmer thuis

App Basisinstallatie

Slimmie
Slimmer thuis

App Installatie met batterijen

Slimmie
Slimmer thuis

App

Dynamische tarieven

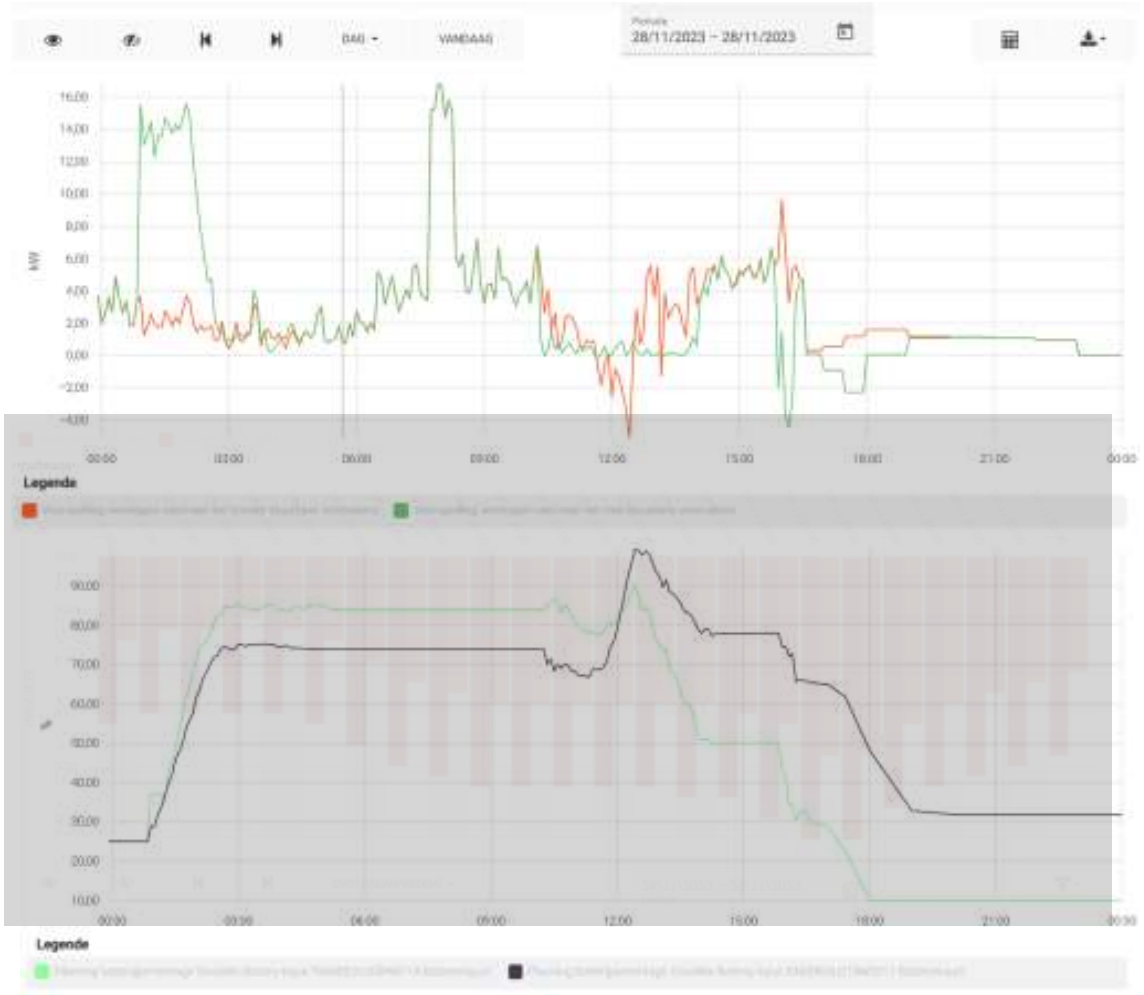
1. Inkoop
2. Optimalisatie eigenverbruik
3. Verkoop met winst

Slimmie
Slimmer thuis

Portaal Detailopvolging

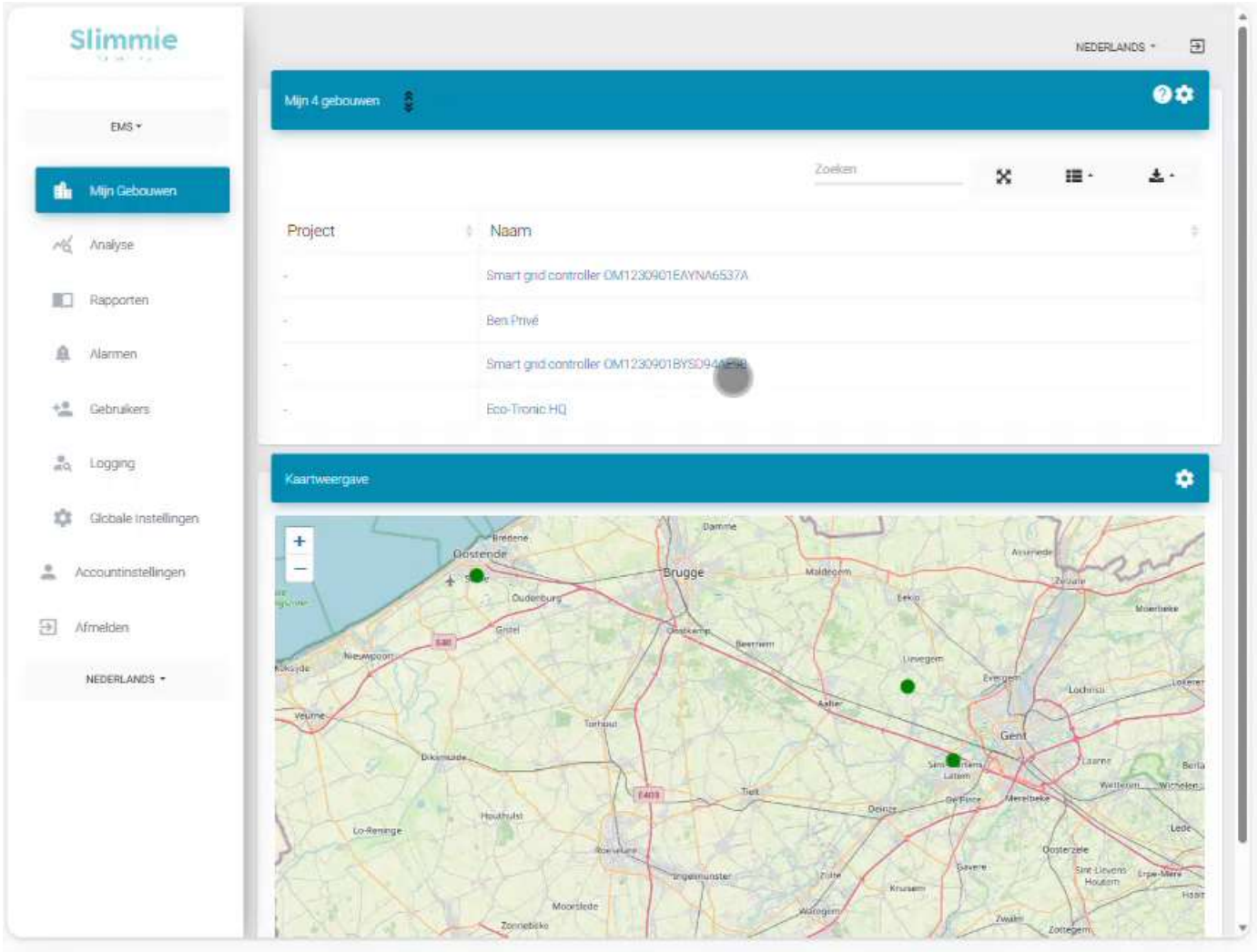
Slimmie
Slimmer thuis

Portaal Detailopvolging



Slimmie
Slimmer thuis

Portaal Detailopvolging



Slimmie
Slimmer thuis

Inhoud

Slimmie
Slimmer thuis

Financieel

Wat is de besparing?

Warmtepomp

Thuisbatterij

Boiler

Energiecontract

Comfortniveau

Elektrische wagen

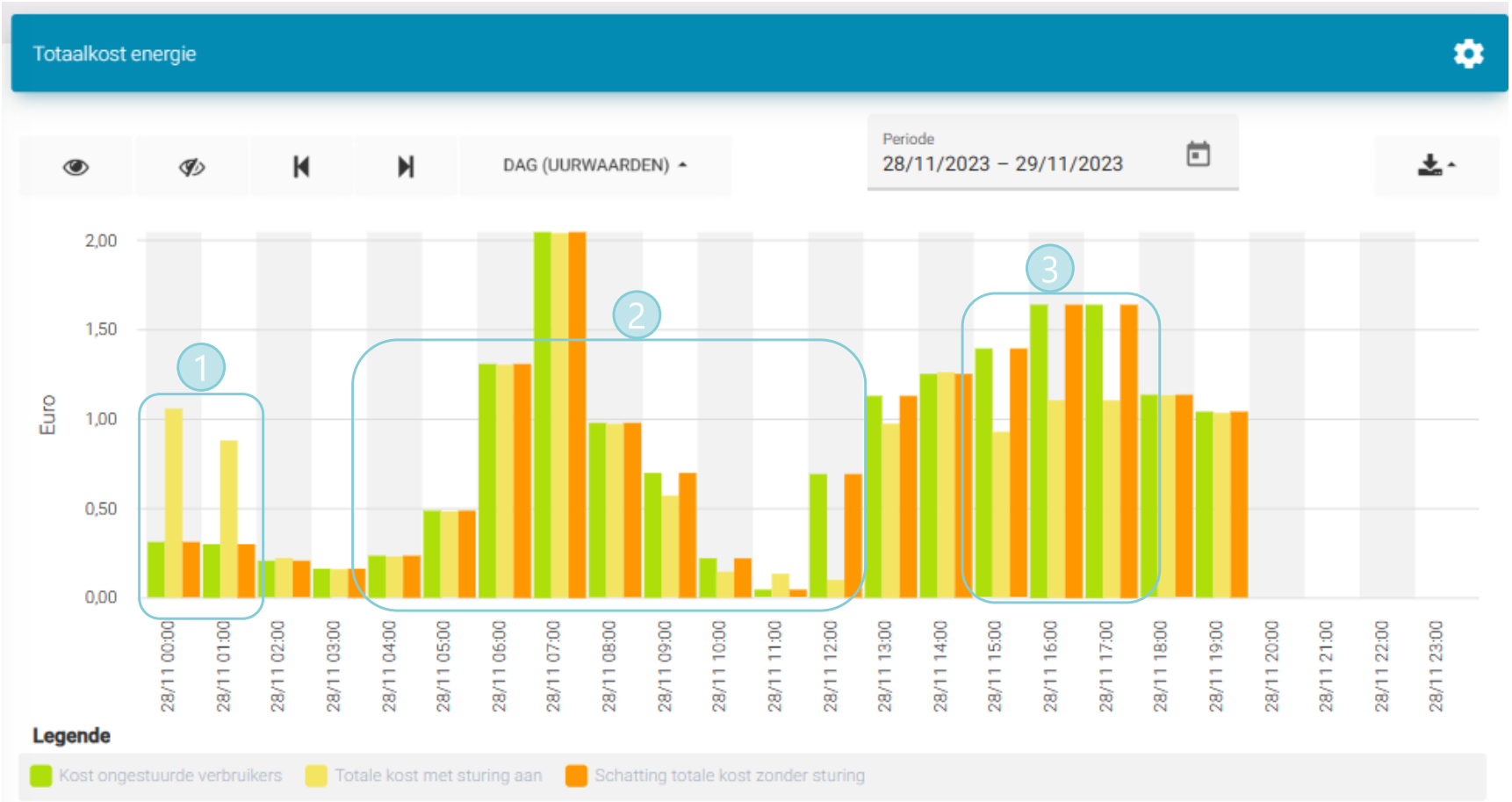
Gezinsamenstelling

Werkregime

Slimmie
Slimmer thuis

Financieel

Wat is de besparing?



Slimmie
Slimmer thuis

Resultaat: besparing van 1,08 EUR

Financieel

Wat is de besparing?

1,08 EUR

- Met sturing batterij van slechts 15kWh op kantoorgebouw!
- Op een herfstdag met amper eigen productie
- Eén dag na installatie, zonder optimalisatie door zelflerende algoritmes
- Zonder aansturing van laadpalen
- Zonder aansturing van verwarming

Slimmie
Slimmer thuis

Financieel

Wat kost Slimmie? **Installateur**

Inclusief 3 jaar softwarelicenties voor sturing & monitoring:

- Sturing: curtailment, piekreductie, optimalisatie eigenverbruik.
- Monitoring: Toegang tot Cloud EMS (desktop en app).
- Gratis updates voor de Slimmie Controller.

Slimmie
Slimmer thuis

Financieel

Wat kost Slimmie?

Softwarelicenties na 3 jaar

Prijs per jaar per kW

Het aantal kW vertegenwoordigt de flexibiliteit van de technieken die aangestuurd
kunnen worden.

Bv.

- Laadpaal 11kW
- Hybride omvormer 5kW / 15kWh batterijen

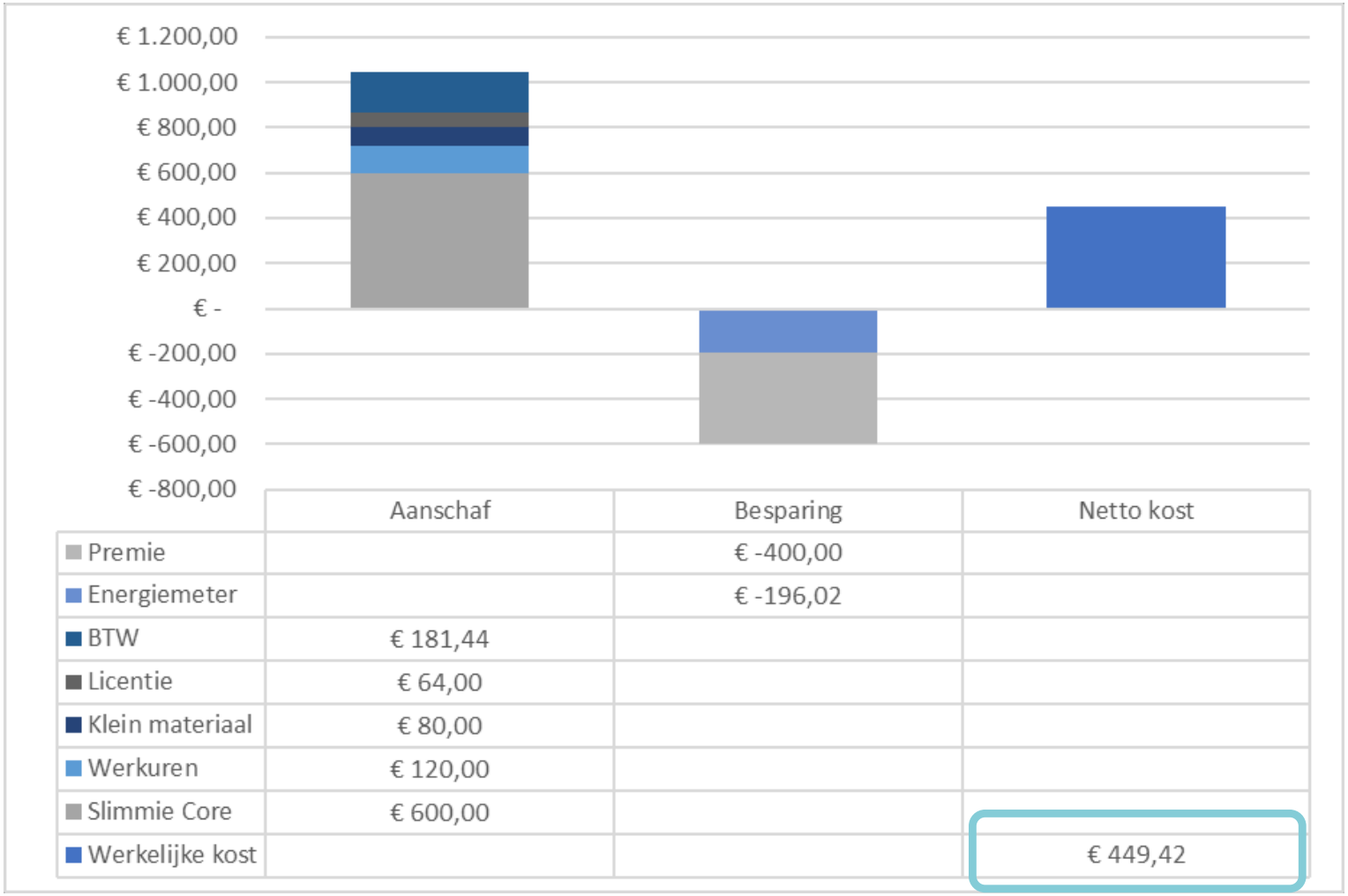
= 16kW ~ 40 EUR **INCLUSIEF BTW** per JAAR*

Slimmie
Slimmer thuis

* Onder voorbehoud van aanpassingen

Financieel

Wat kost Slimmie?



	Aanschaf	Besparing	Netto kost
Premie		€ -400,00	
Energiemeter		€ -196,02	
BTW	€ 181,44		
Licentie	€ 64,00		
Klein materiaal	€ 80,00		
Werkuren	€ 120,00		
Slimmie Core	€ 600,00		
Werkelijke kost			€ 449,42

Slimmie
Slimmer thuis

Casus warmtepomp met SG aansturing + hybride omvormer

Financieel

Wat kost Slimmie?

- € 449,42 werkelijke installatiekost “dag 0”, inclusief licentie voor 5 jaar
- € 89 per jaar, bij afschrijving op 5 jaar
- € 0,25 per **dag**

Slimmie verdien je terug op elke installatie

Slimmer thuis