

Meet iwell

Rebuilding the European energy infrastructure since 2016

iwell
Saving nature's energy

About us

Founded in
2016

Projects realised
300+

Offices in
The Netherlands, Germany & Belgium

Colleagues
80+

In-house
Software & hardware development

iwell







Our product

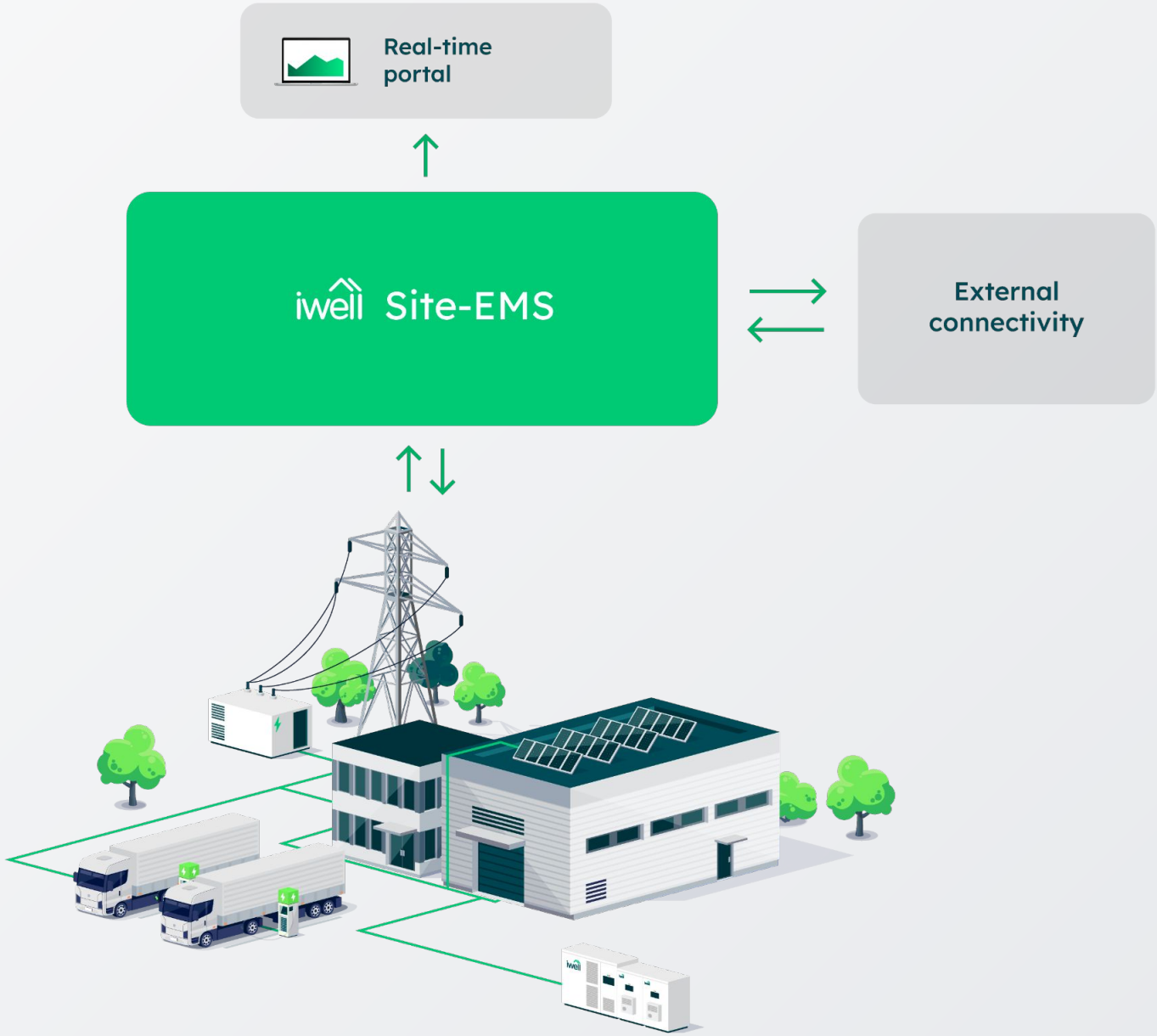
So much more than hardware



iwell

We make your energy flow

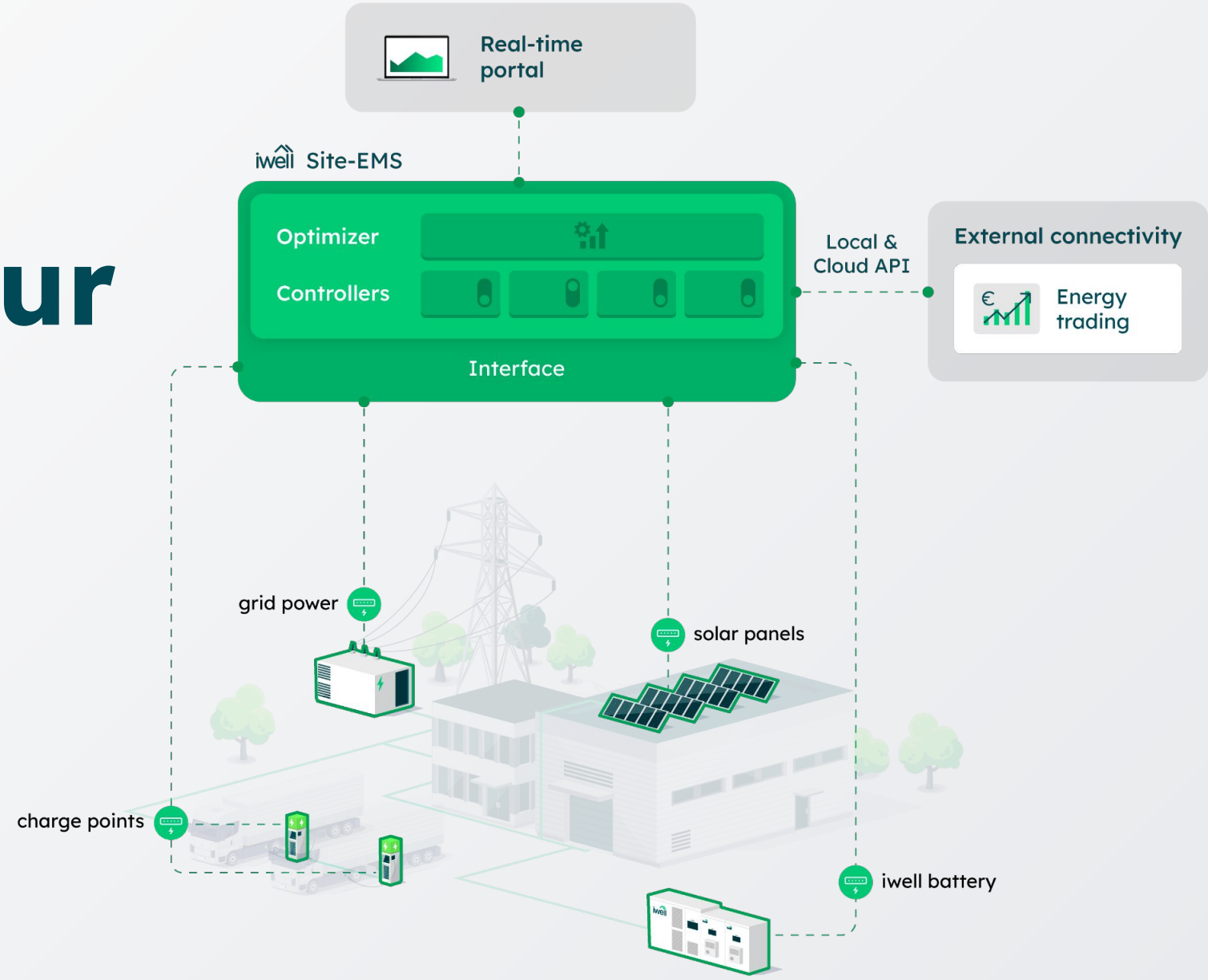
Your energy intelligence.
When you need it. Where you need it.



iwell EMS | The brains that keep your business powered

We make your energy flow

Your energy intelligence.
When you need it. Where you need it.



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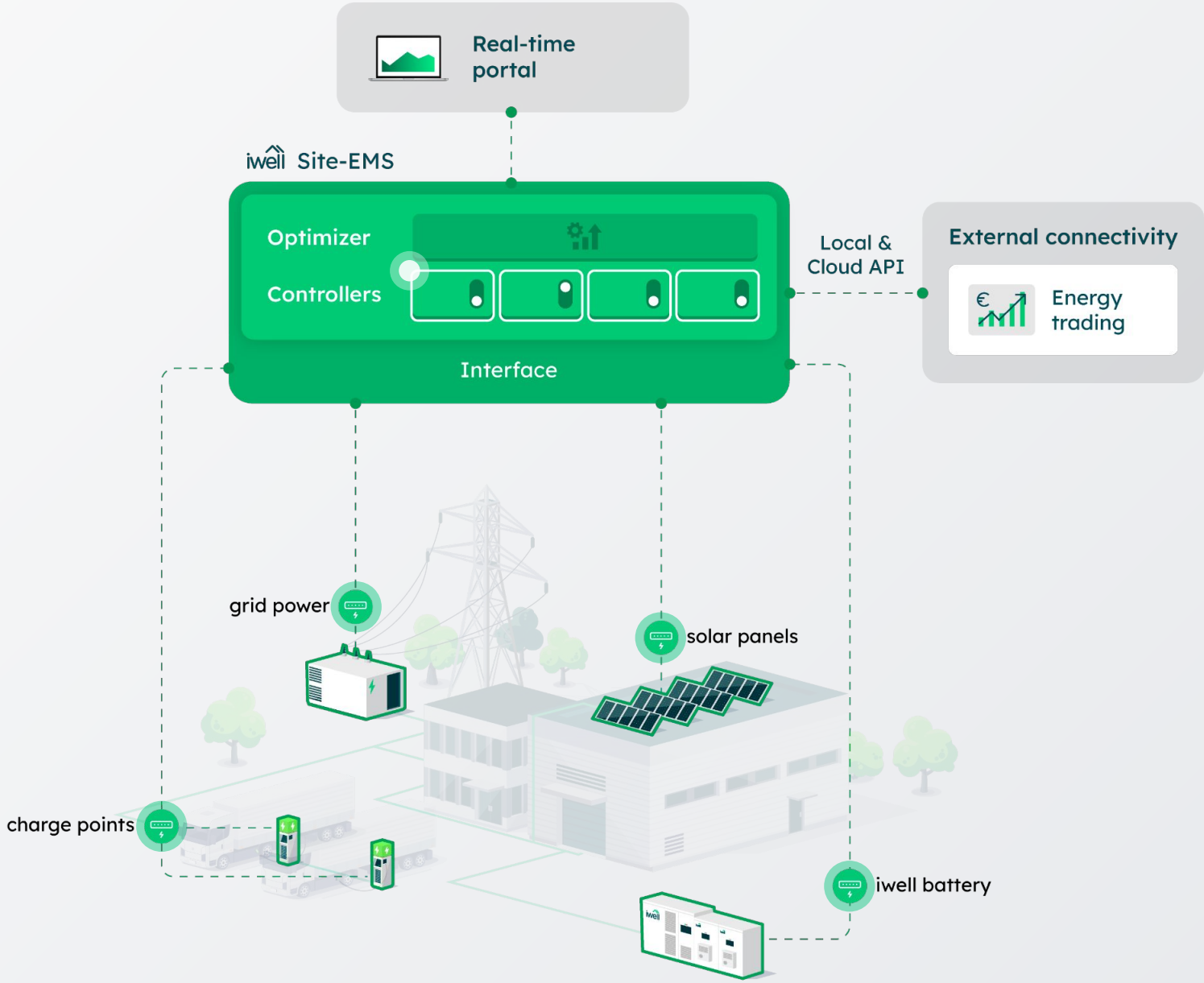
Peace of mind

powering your daily operation by safeguarding critical values

Profits

Resilience

Insights



We make your energy flow

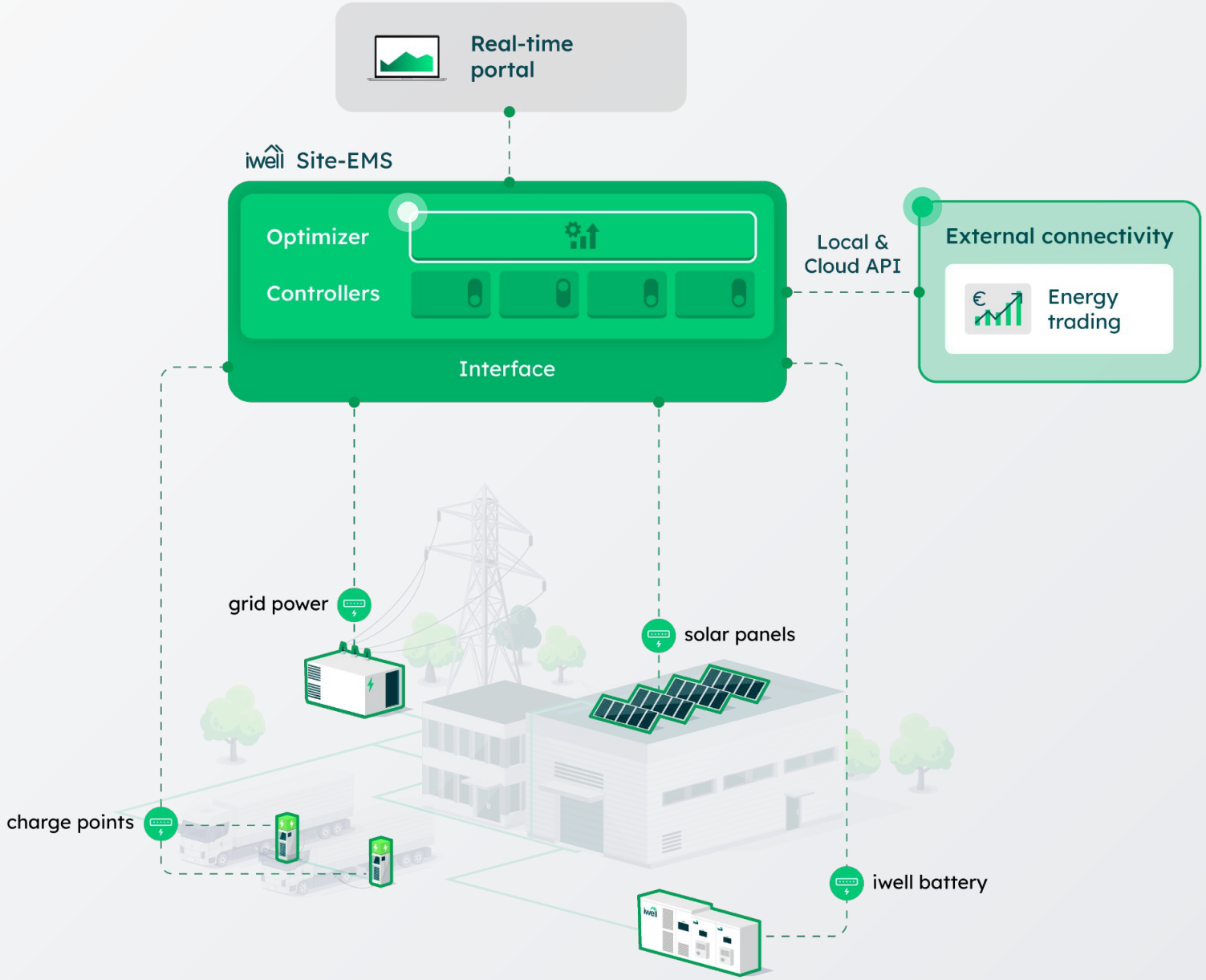
Peace of mind

Profits

maximize profits and reduce costs within the safe boundaries of your daily operation

Resilience

Insights



We make your energy flow

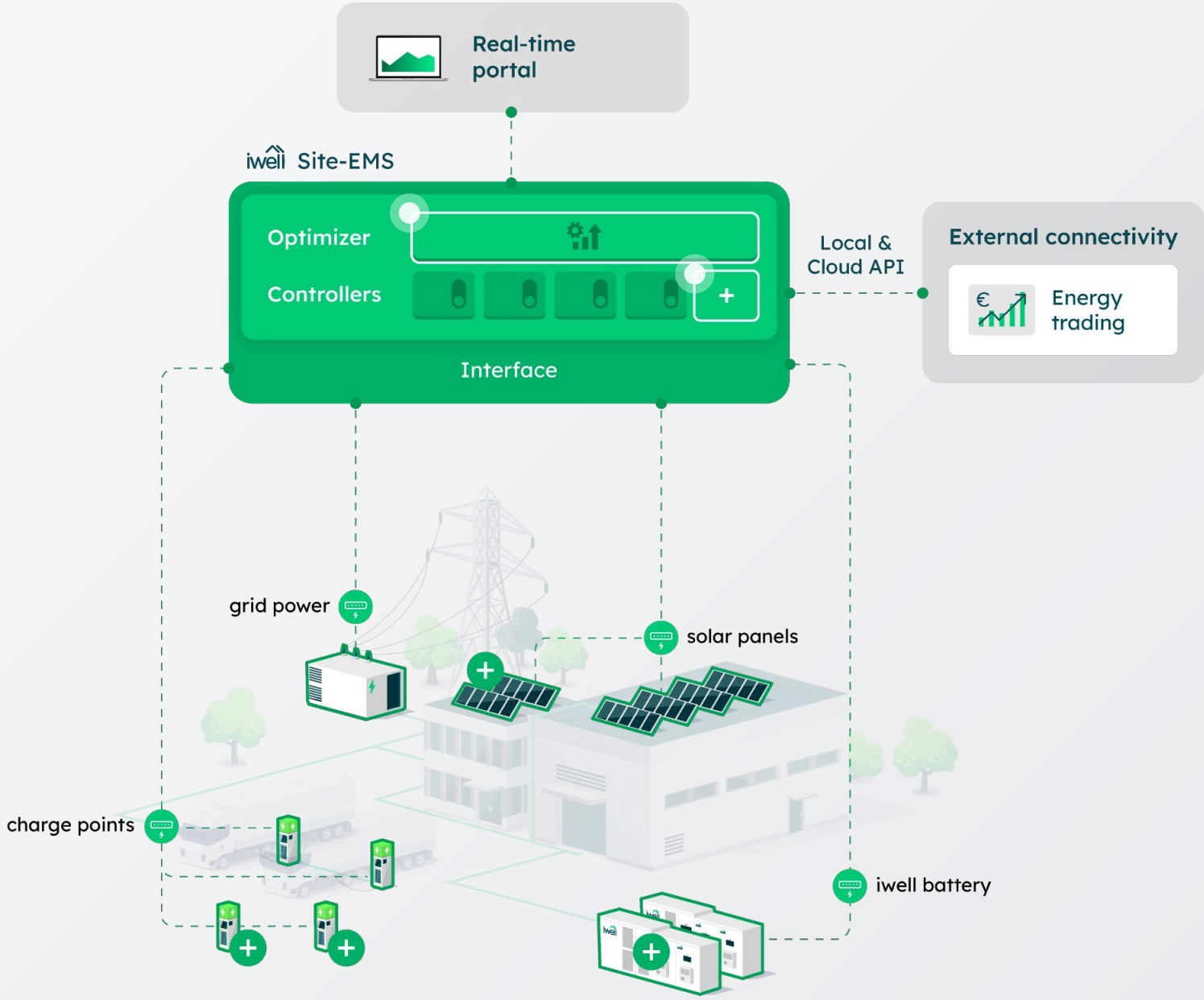
Peace of mind

Profits

Resilience

adapt to changing business needs with modules that can switch on and off

Insights



We make your energy flow

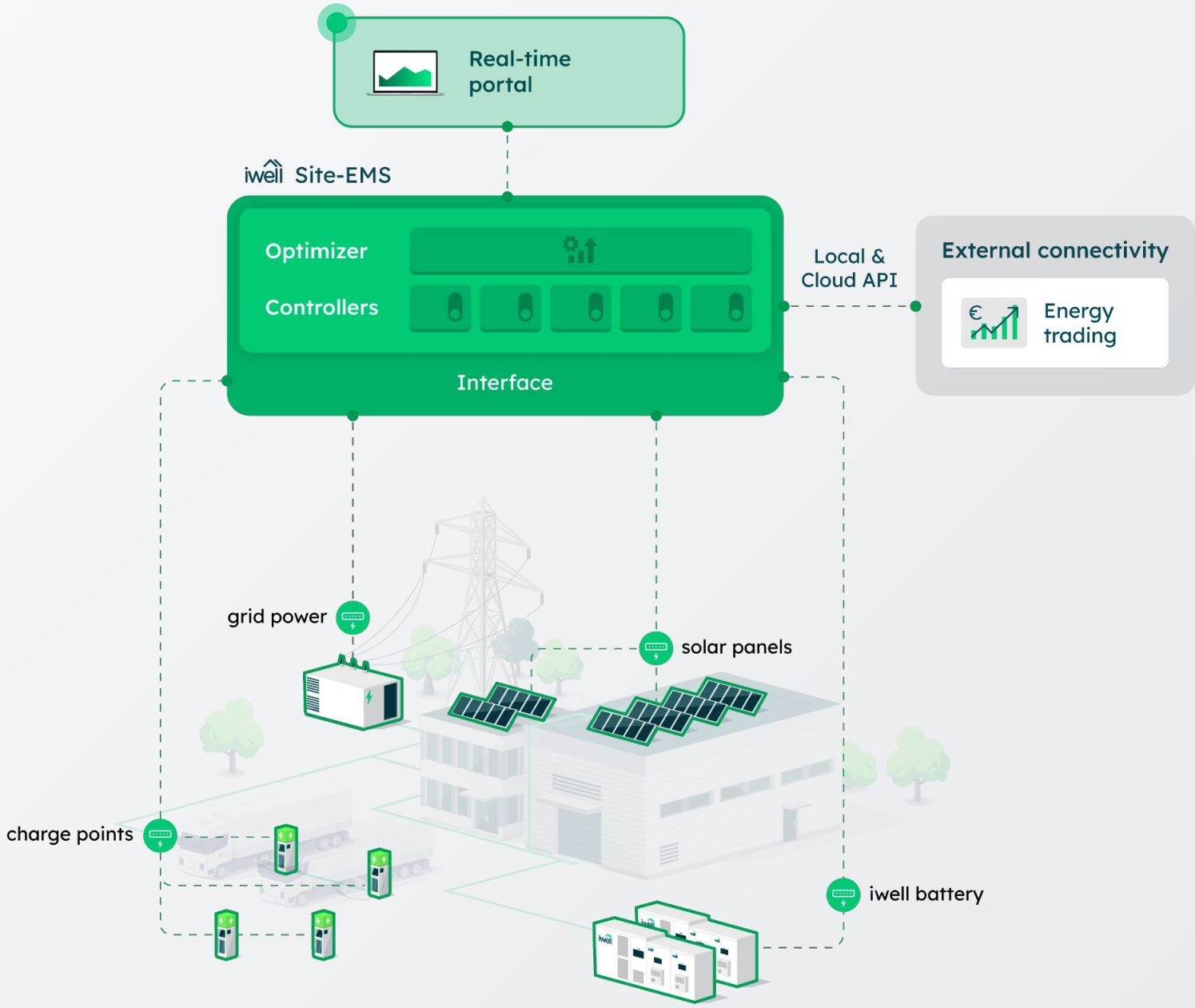
Peace of mind

Profits

Resilience

Insights & Control

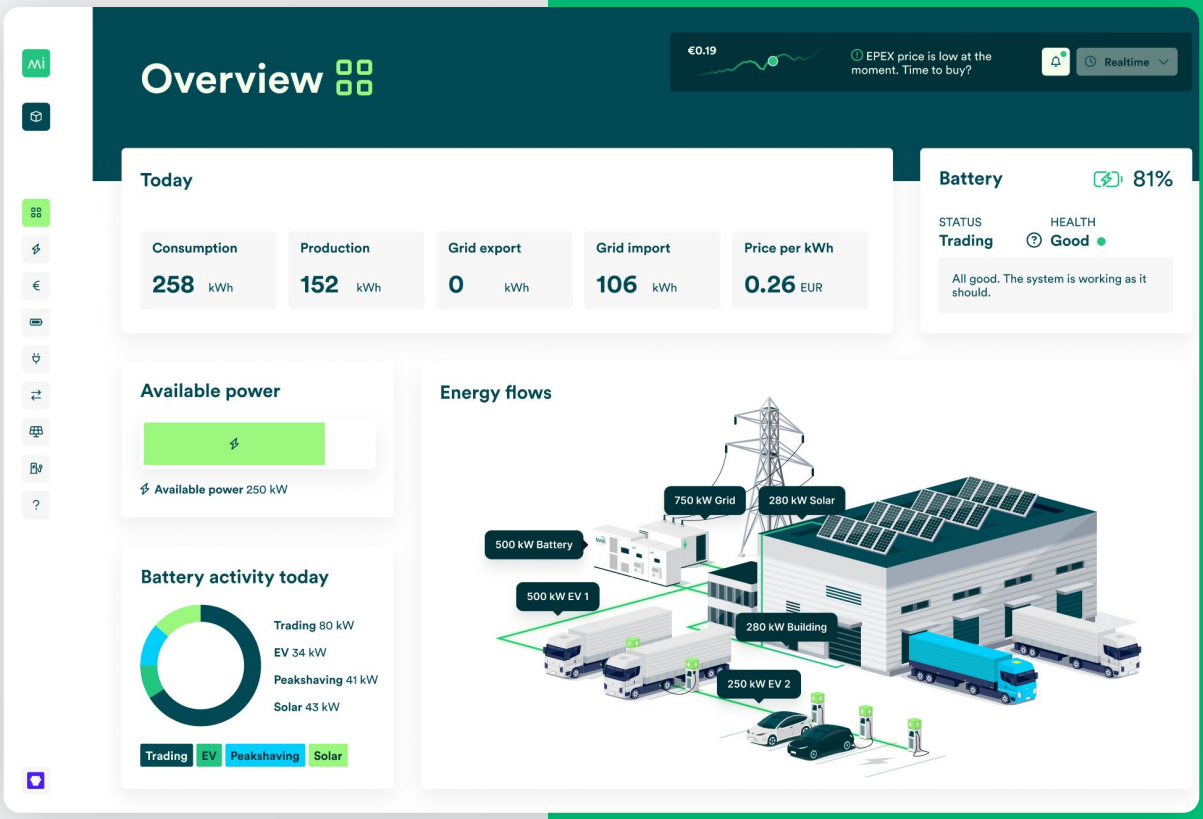
real-time insights and reports of your energy management data and performance



iwell EMS | The brains that keep your business powered

Real-time insights & control in one dashboard

- One place for solar, EV, battery and grid connection insights and data
- API to connect your companies BI-tool
- Real-time revenues and costs
- Easy reporting with custom data export functionality
- User friendly, no expertise required



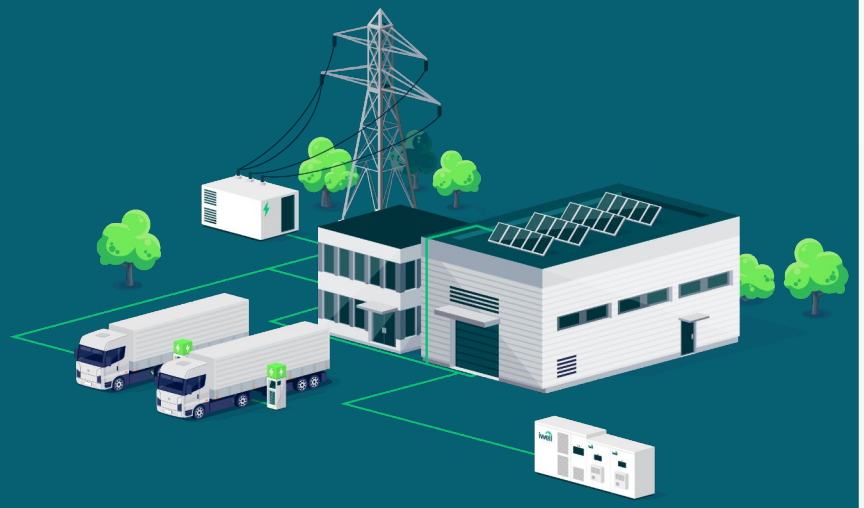
iwell EMS | The brains that keep your business powered

As your business changes, iwell's EMS changes with you



	BESS + PV installed	+ 5 E-trucks	Grid connection upgraded
Use case	Optimize use of solar	Optimize solar + EV charging	Optimize solar + EV charging + energy trading
Software modules	Peakshave controller PV controller Revenue optimizer API access Energy trading ...	Peakshave controller EV controller Revenue optimizer PV controller API access Energy trading ...	Peakshave controller EV controller Revenue optimizer API access Energy trading ...

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Transport example case

Grid connection

- Import limit 200 kW
- Export limit 200 kW

PV system

- Installed 1 MWp

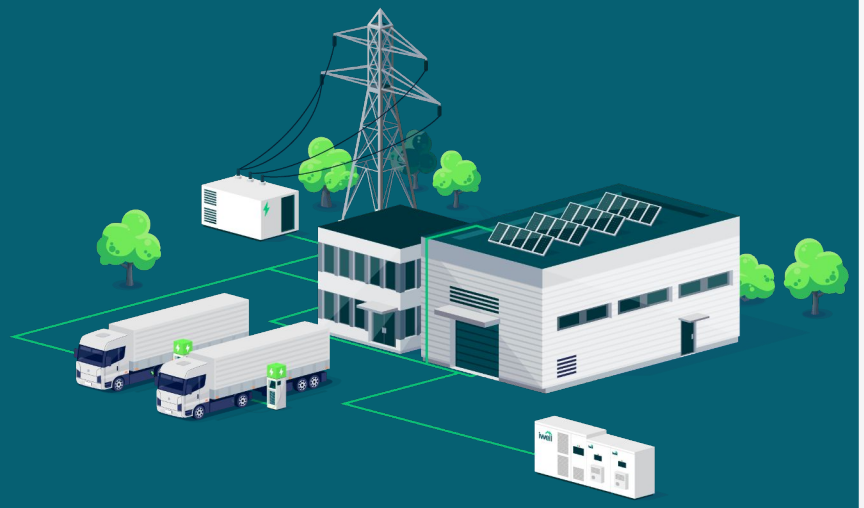
E-Trucks

- 5 trucks
- Daily charging 400 kWh/truck
- Power DC-chargers 400 kW
- Arrival 17.00
- Departure 05.00

Building load

- 07.00-19.00 100 kW
- 19.00-07.00 40 kW
- Energy contract Dynamic prices

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Overview scenarios

0. Reference scenario

1. Peak charging, no BESS

2. Smart charging, no BESS

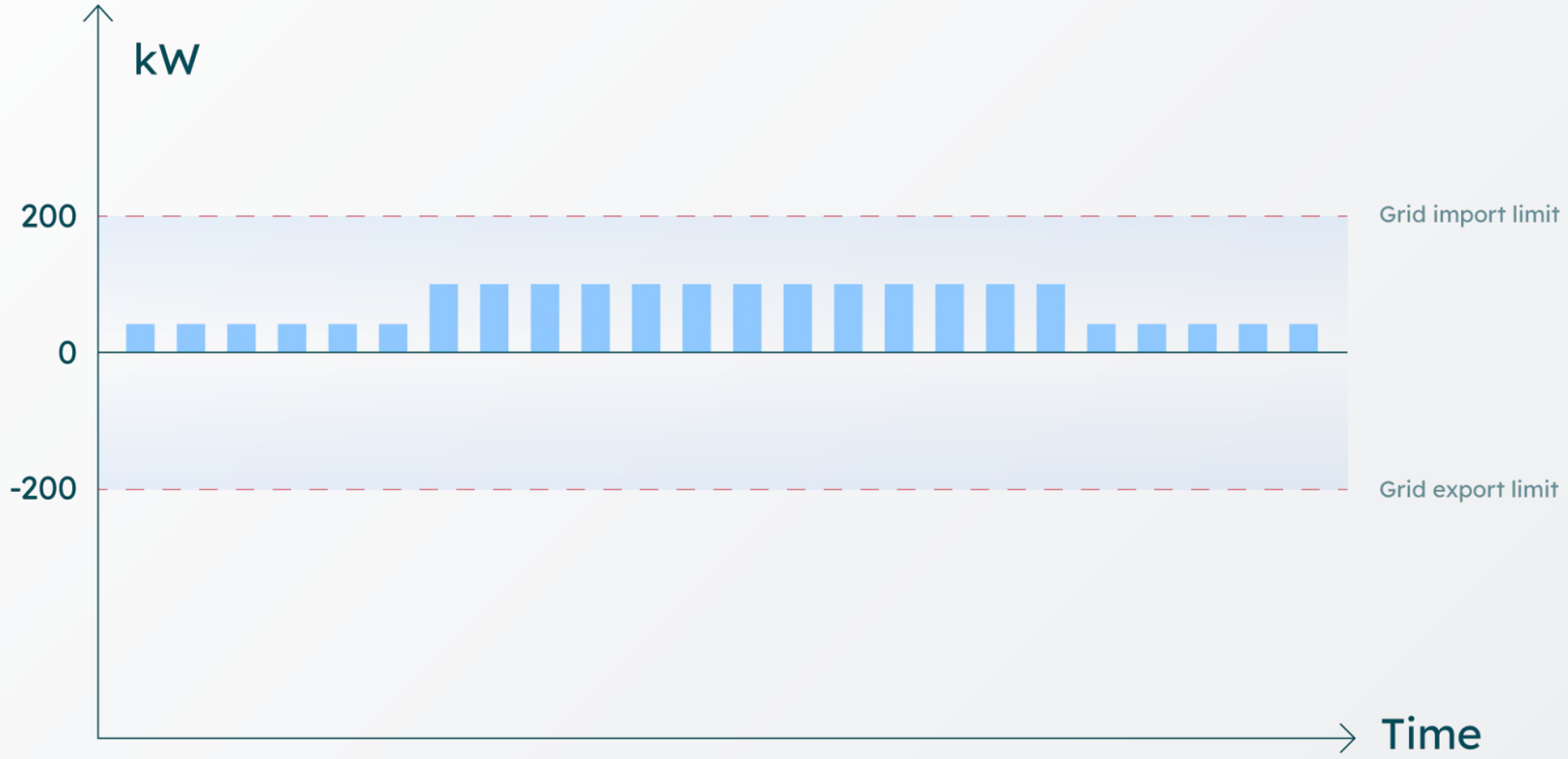
3. Peak charging, BESS of 1 MW / 2,15 MWh

4. Smart charging, BESS 1 MW / 2,15 MWh

5. Max charging, BESS of 1 MW / 2,15 MWh

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0. Building load

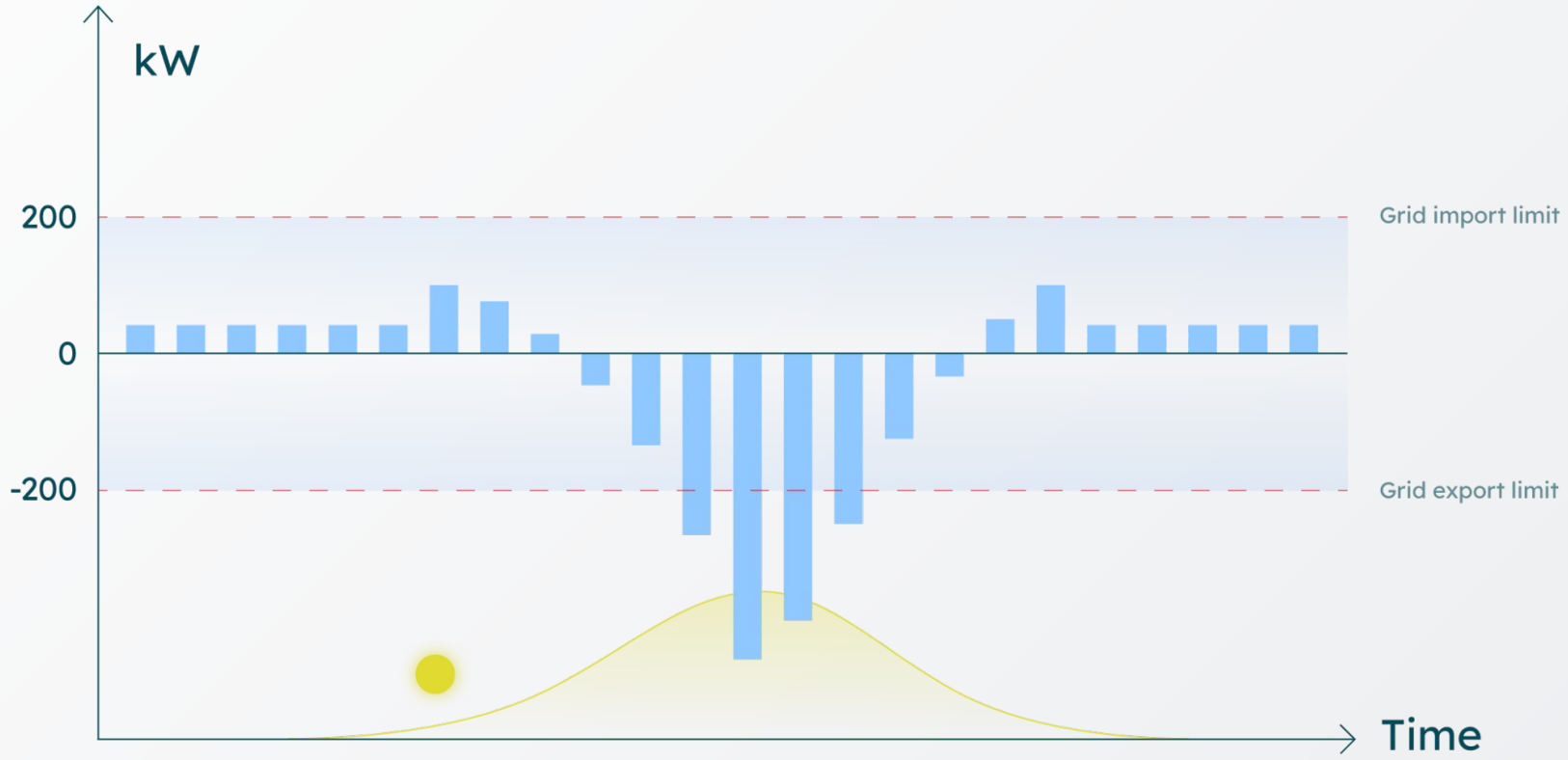


Energy	kWh/yr
Building load	610.000
From grid	610.000

Cost	€/yr
Energy	€85.000
Grid	€20.000
Total	**€105.000**
€/kWh	€0,17

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0. Building load + solar

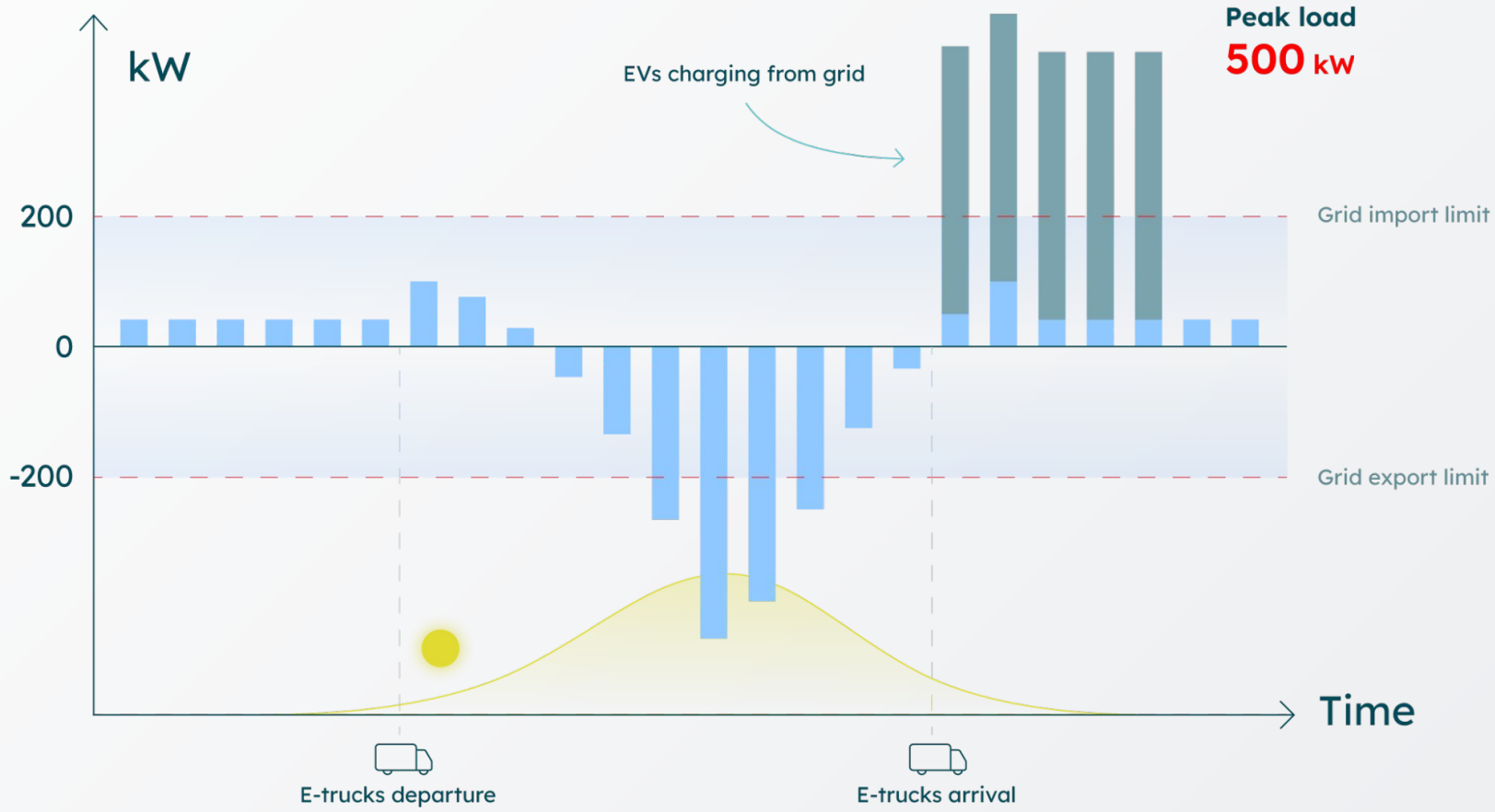


EV Energy	kWh/yr	%
From PV	310.000	51%
From grid	300.000	49%
Total	610.000	

Cost	€/yr
Energy	€21.000
Grid	€14.000
Total	**€35.000**
€/kWh	€0,06

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1. Peak charging, no BESS

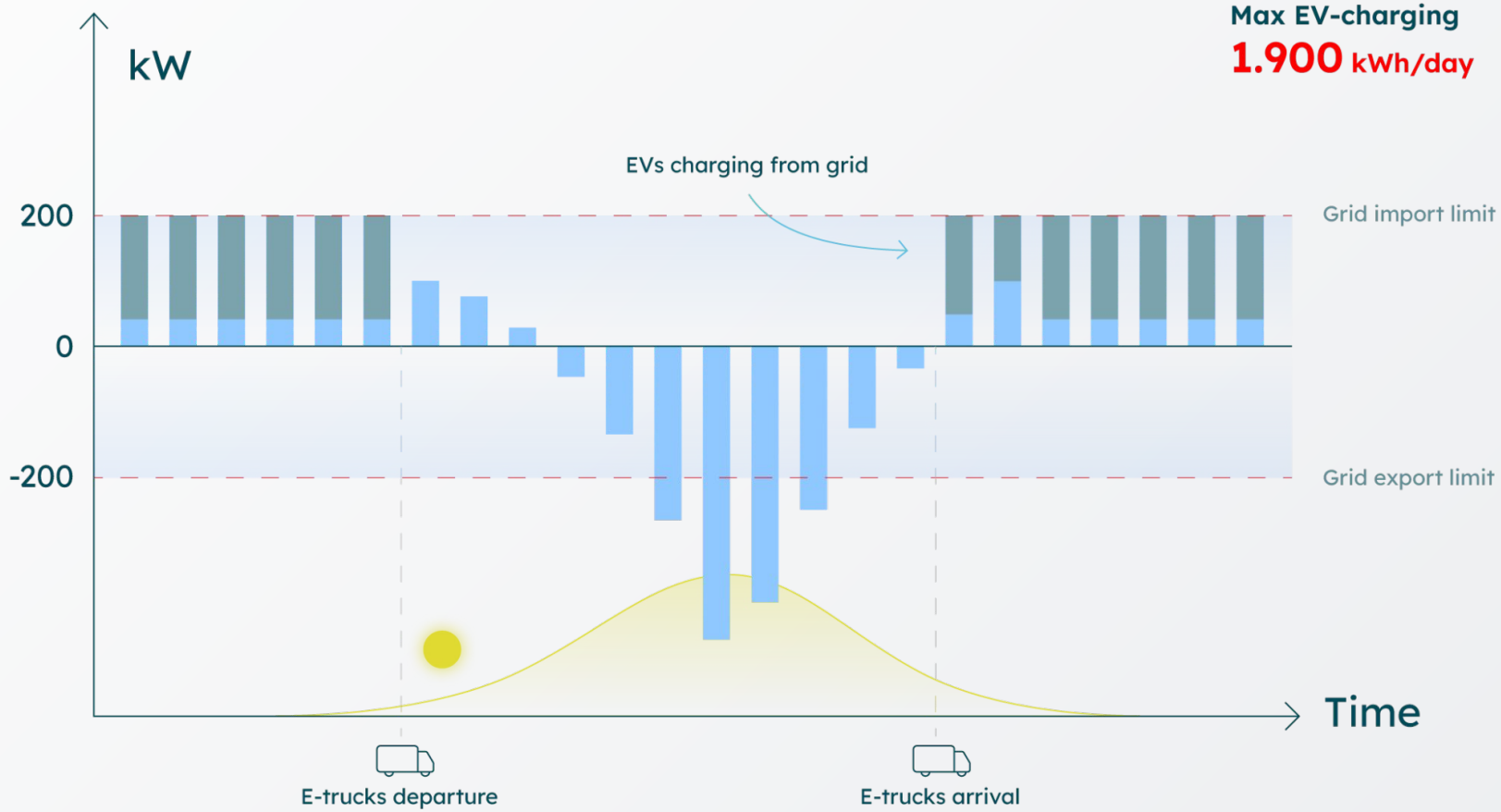


EV Energy	kWh/yr	%
PV to EV	12.000	2%
Grid to EV	612.000	98%
Total	624.000	

EV energy additional cost	€/yr
Energy + Grid	€138.000
HBE Value*	€37.000
Net cost	**€101.000**
€/kWh	€0,16

* 1 HBE = 10€

2. Load balancing, no BESS

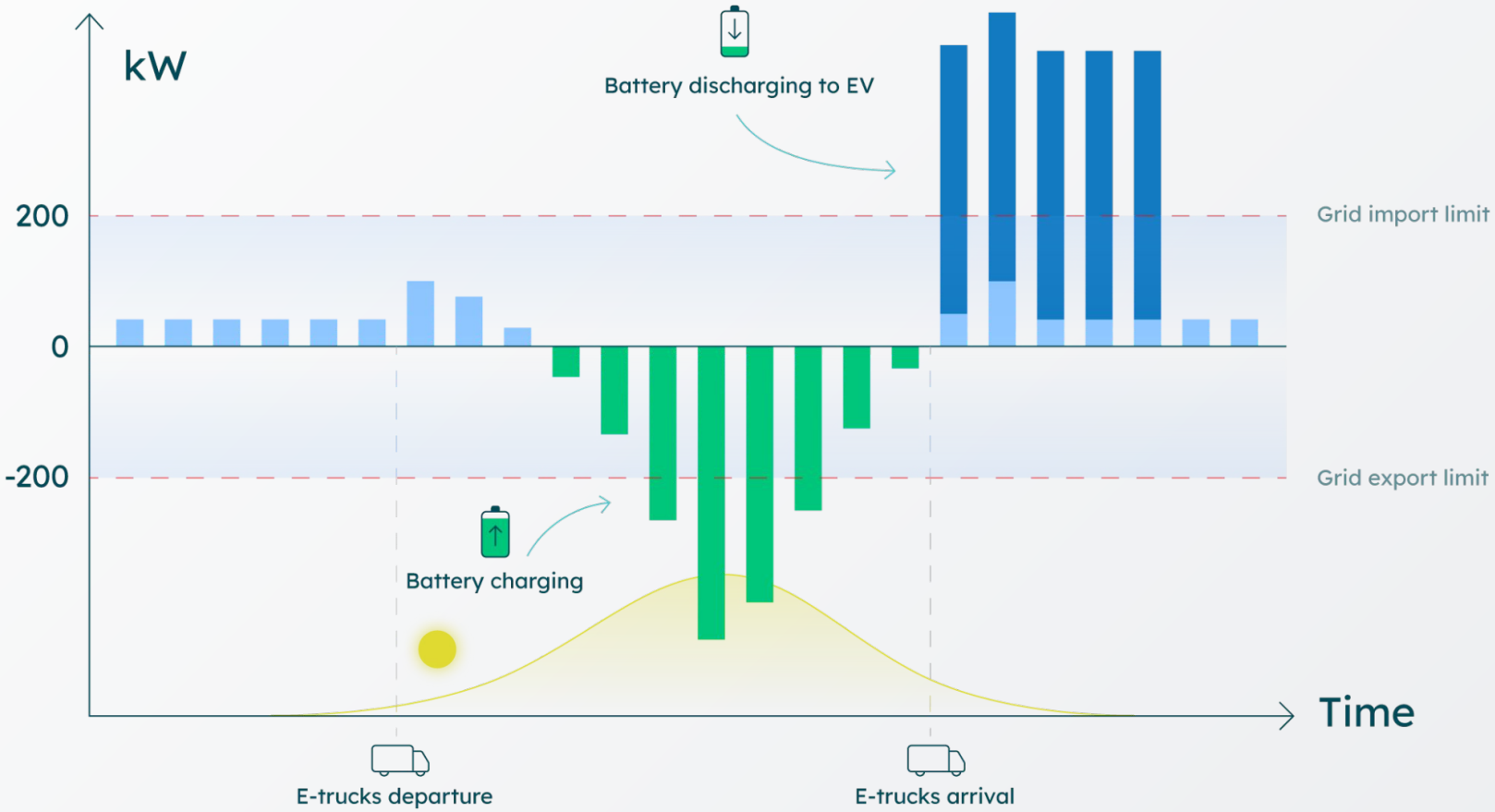


EV Energy	kWh/yr	%
PV to EV	41.000	7%
Grid to EV	552.000	93%
Total	593.000	

EV energy additional cost	€/yr
Energy + Grid	€101.000
HBE Value*	€37.000
Net cost	**€64.000**
€/kWh	€0,11

* 1 HBE = 10€

3. Peak charging, BESS 1 MW/2 MWh

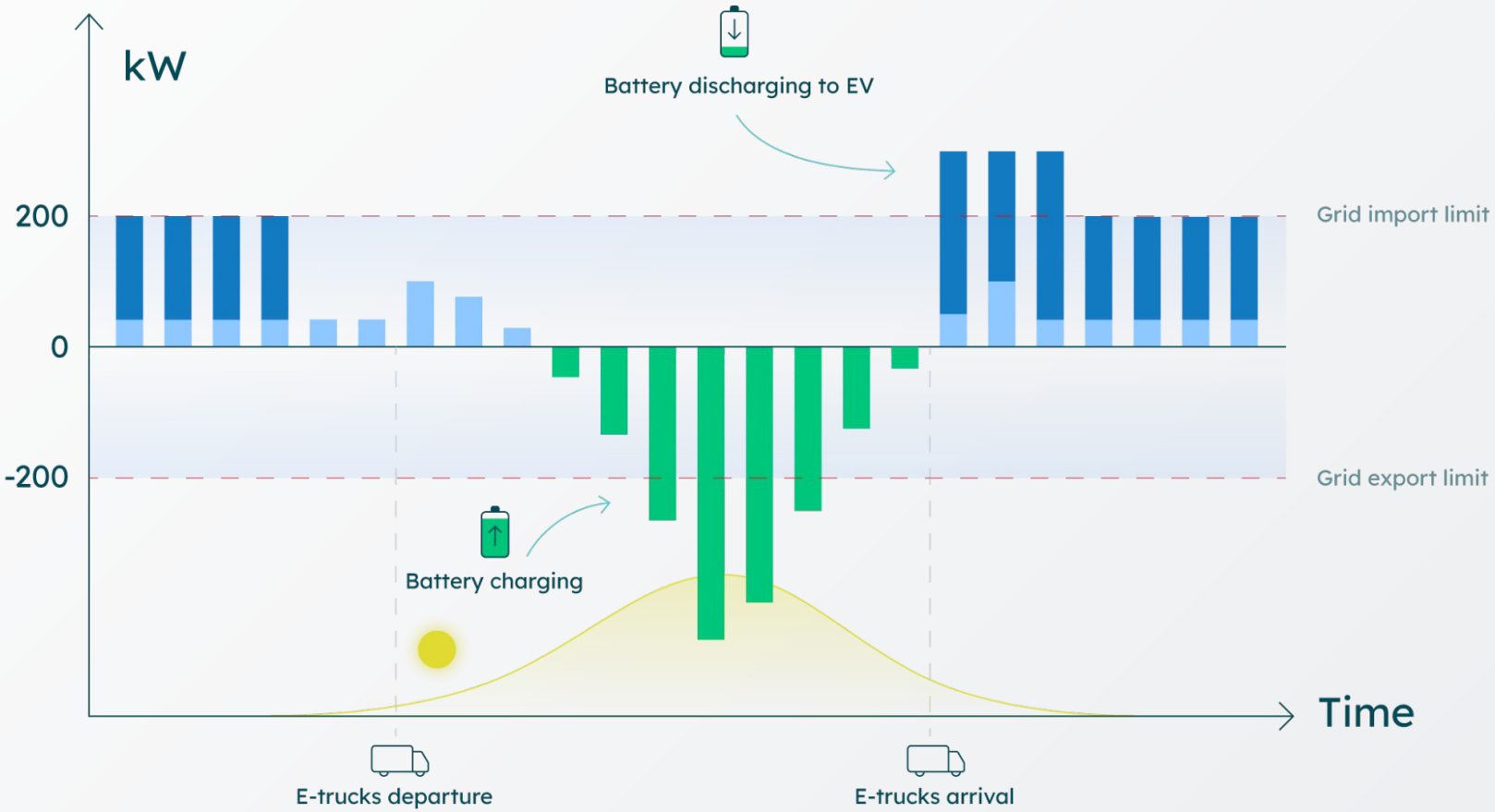


EV Energy	kWh/yr	%
PV to EV	252.000	40%
Grid to EV	372.000	60%
Total	624.000	

EV energy additional cost	€/yr
Energy + Grid	€82.000
HBE Value*	€58.000
Net cost	**€24.000**
€/kWh	€0,04

* 1 HBE = 10€

4. Smart charging, BESS 1 MW/2 MWh

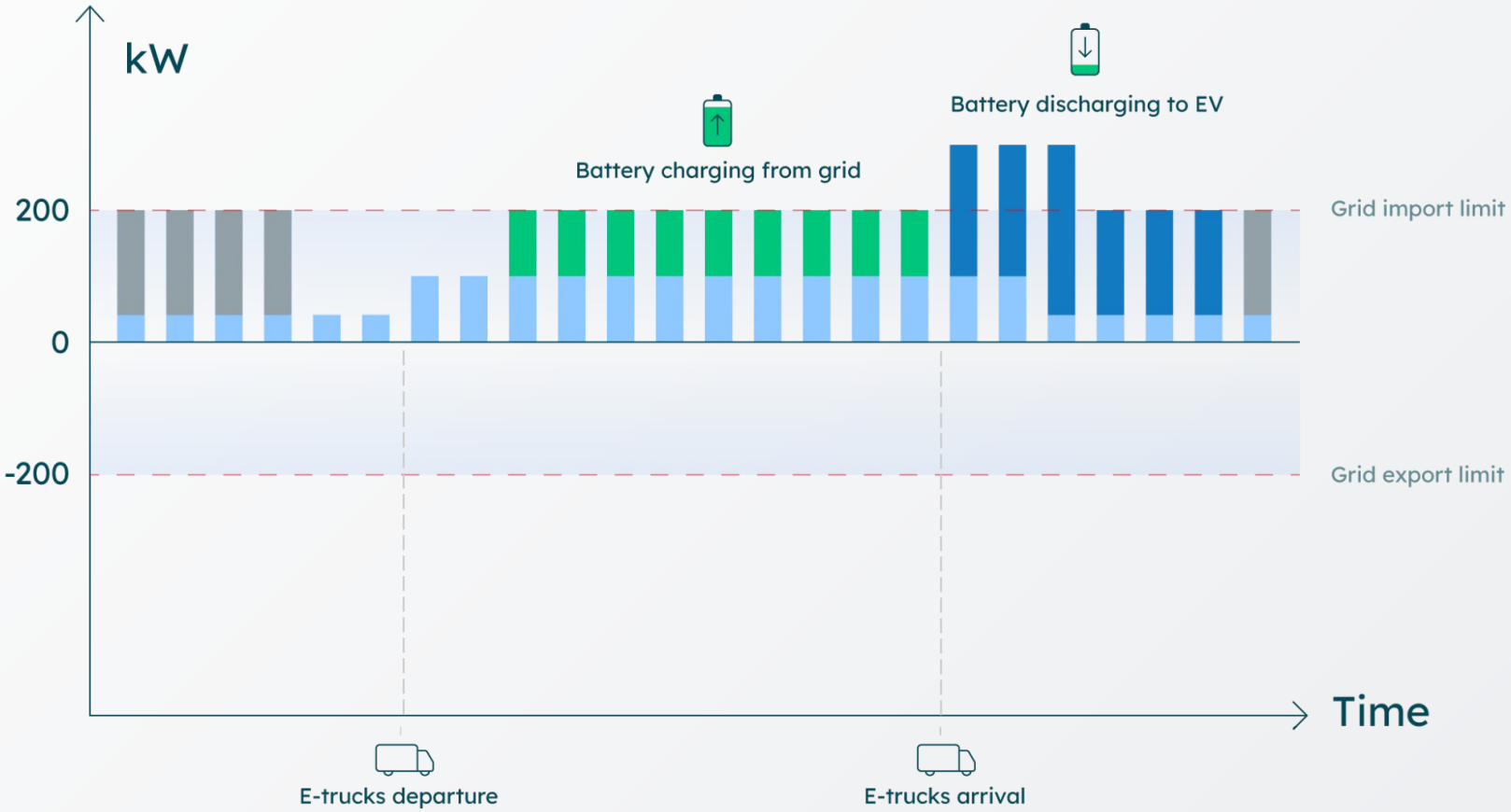


EV Energy	kWh/yr	%
PV to EV	290.000	47%
Grid to EV	334.000	53%
Total	624.000	

EV energy additional cost	€/yr
Energy + Grid	€74.000
HBE Value*	€61.000
Net cost	**€13.000**
€/kWh	€0,02

* 1 HBE = 10€

4. Winter, BESS 1 MW/2 MWh

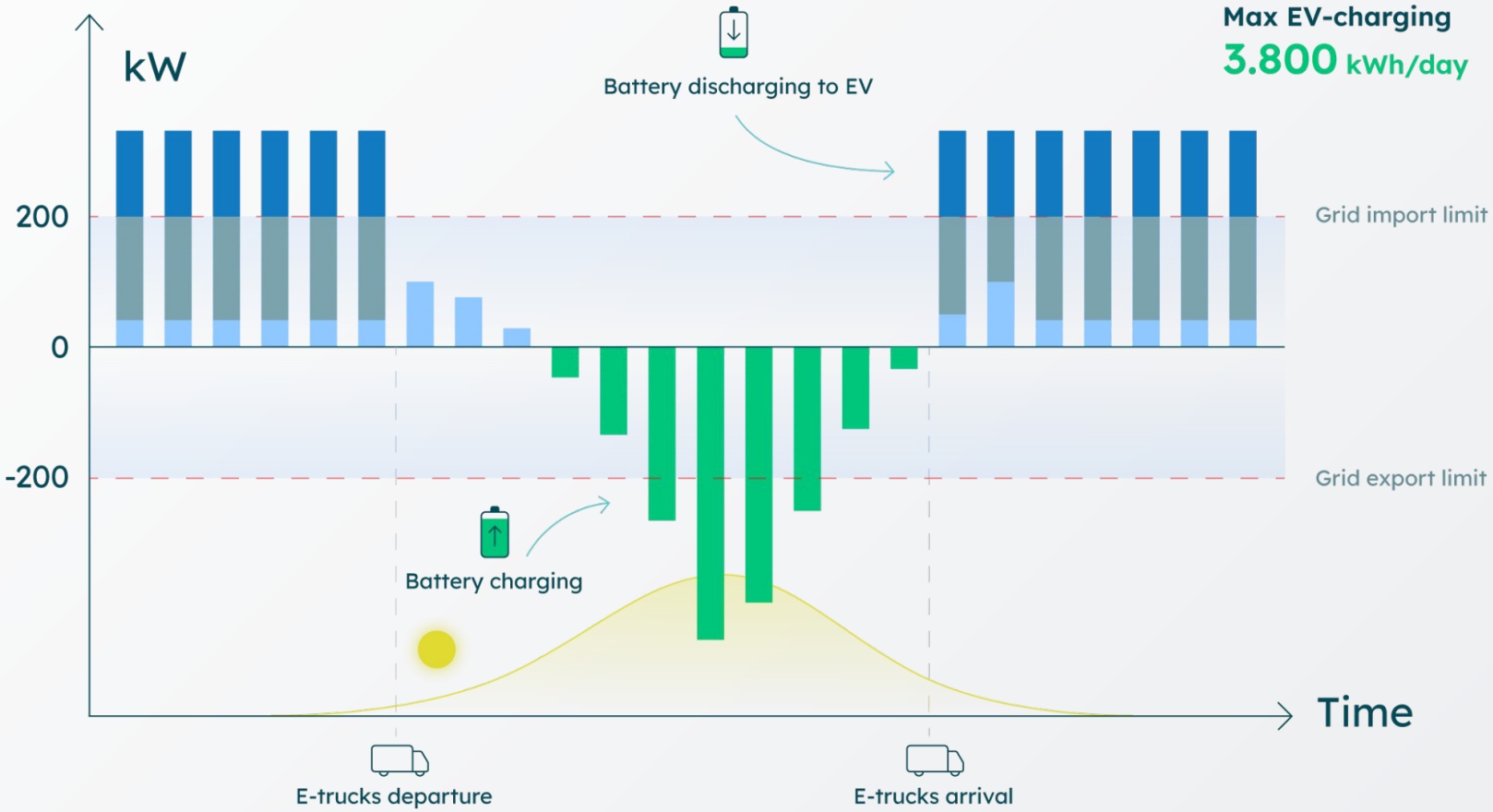


EV Energy	kWh/yr	%
PV to EV	290.000	47%
Grid to EV	334.000	53%
Total	624.000	

EV energy additional cost	€/yr
Energy + Grid	€74.000
HBE Value*	€61.000
Net cost	**€13.000**
€/kWh	€0,02

* 1 HBE = 10€

5. Max charging, BESS 1 MW/2 MWh



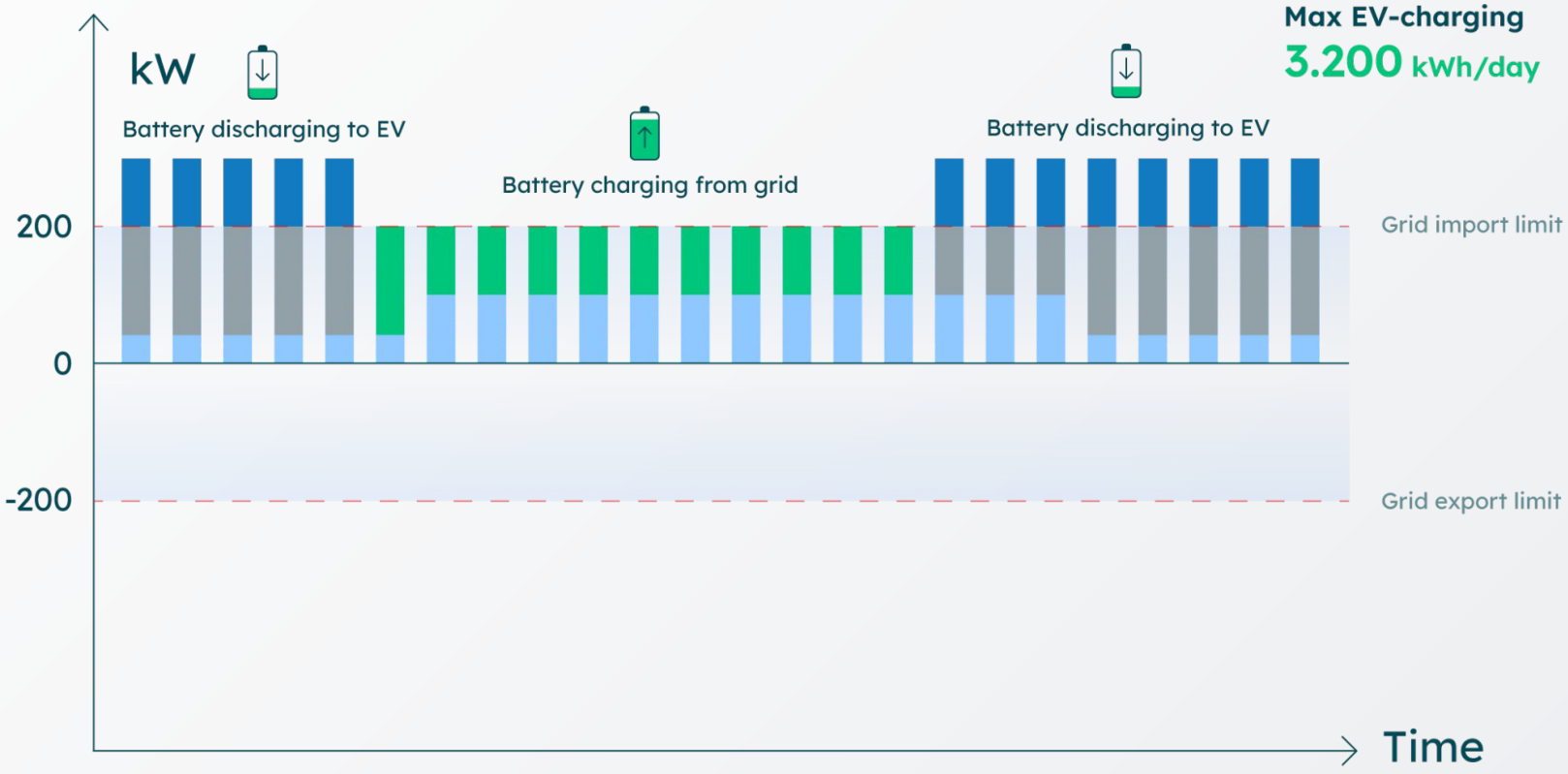
EV Energy	kWh/yr	%
PV to EV	310.000	47%
Grid to EV	750.000	53%
Total	1.060.000	

EV energy additional cost	€/yr
Energy + Grid	€164.000
HBE Value*	€88.000
Net cost	**€76.000**
€/kWh	€0,07

* 1 HBE = 10€

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5. Max charging winter, BESS 1 MW/2 MWh



EV Energy	kWh/yr	%
PV to EV	310.000	47%
Grid to EV	750.000	53%
Total	1.060.000	

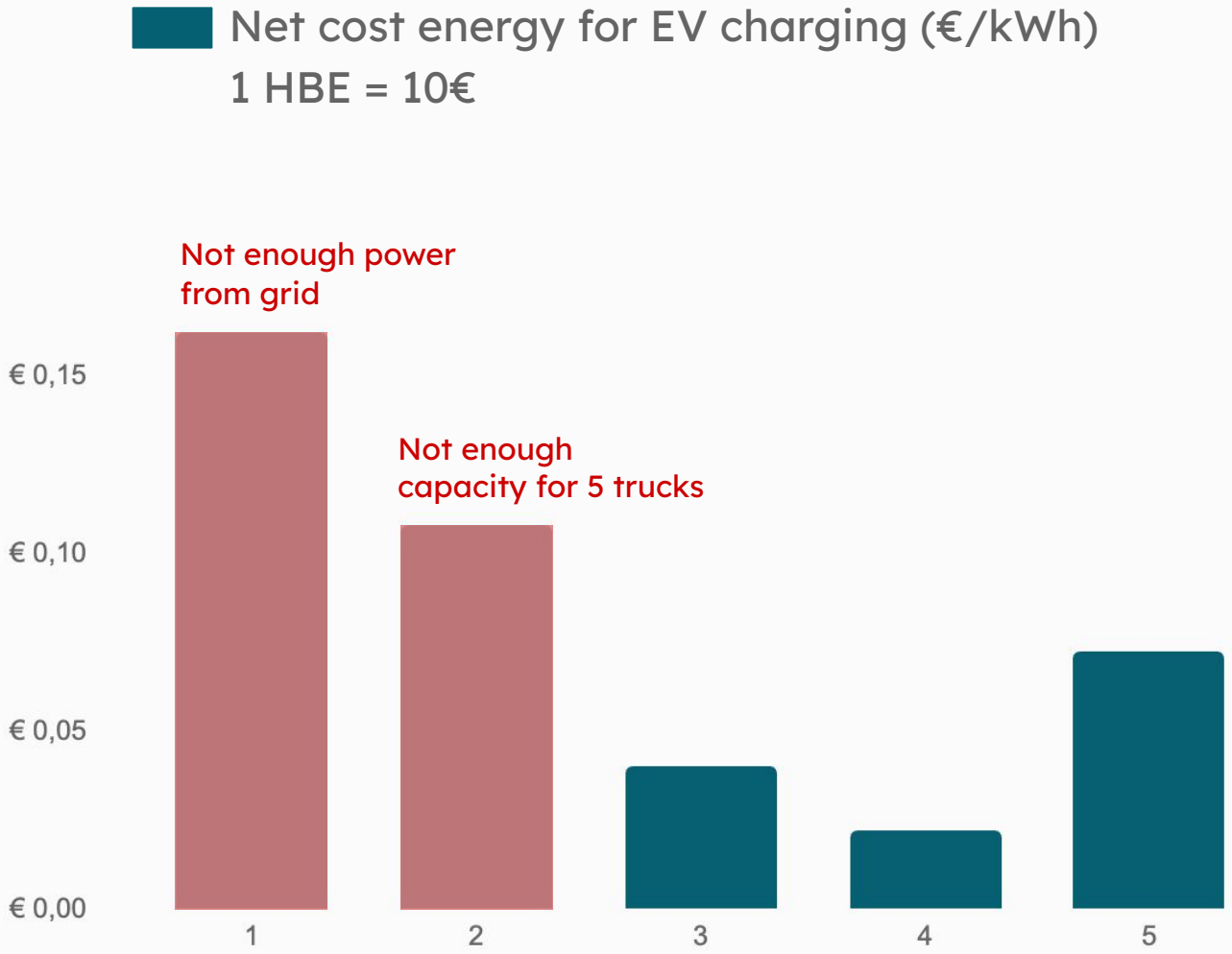
EV energy additional cost	€/yr
Energy + Grid	€164.000
HBE Value*	€88.000
Net cost	**€76.000**
€/kWh	€0,07

* 1 HBE = 10€

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Results overview

EMS



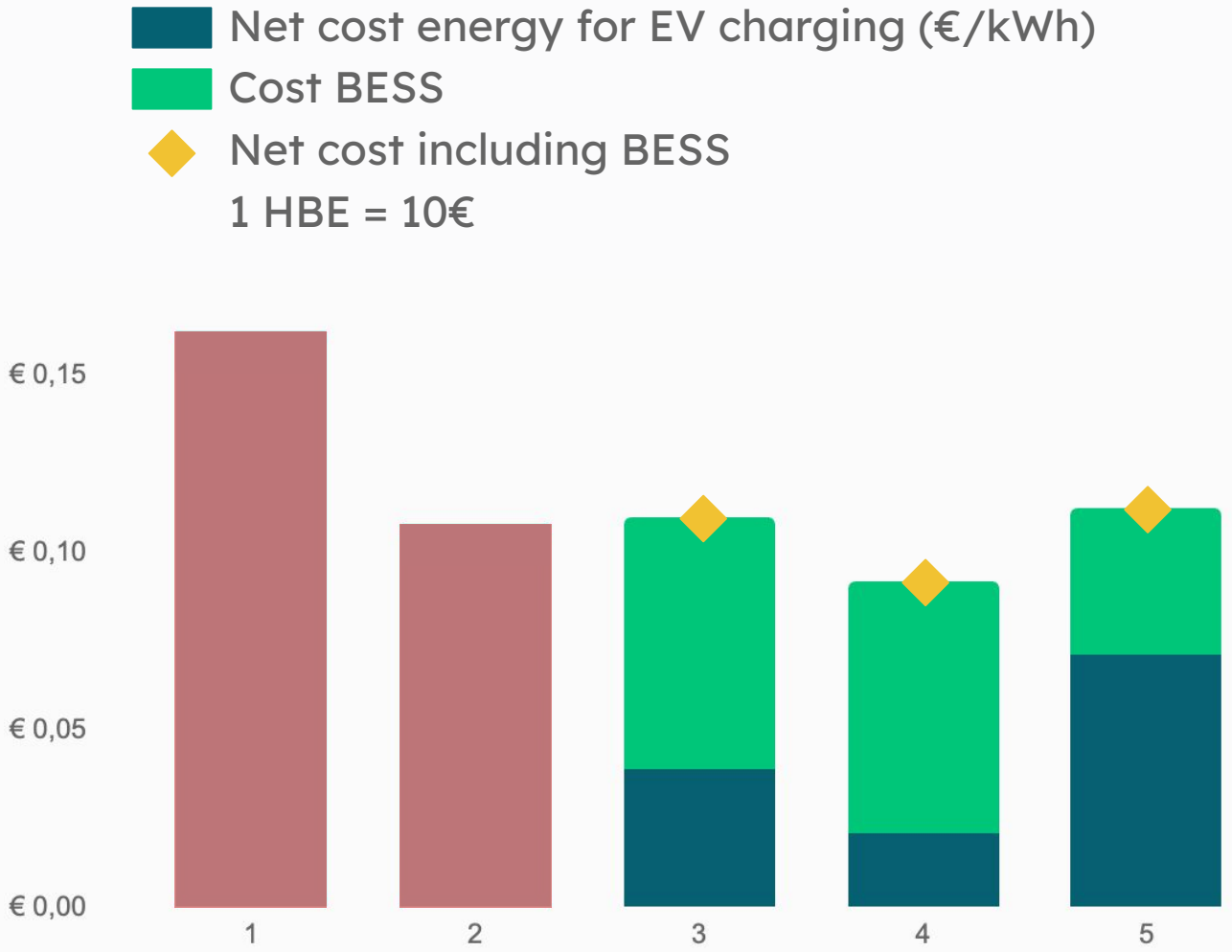
Scenarios

1. Peak charging, no BESS
2. Smart charging, no BESS
3. Peak charging with BESS
4. Smart charging with BESS
5. Max charging with BESS

   Up to 9 trucks

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Results overview

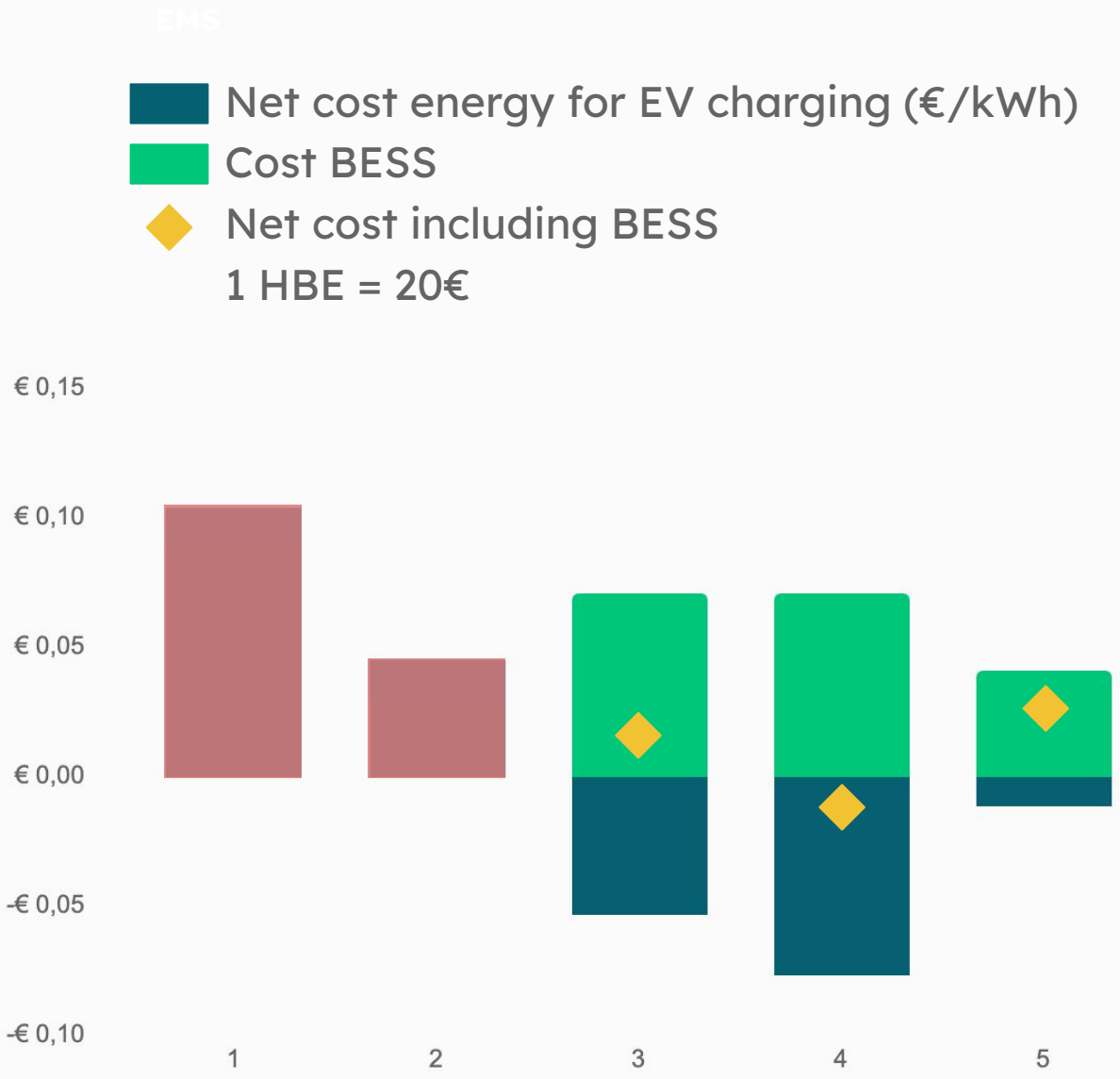


Scenarios

1. Peak charging, no BESS
   Not enough power from grid
2. Smart charging, no BESS
   Not enough capacity for 5 trucks
3. Peak charging with BESS
4. Smart charging with BESS
5. Max charging with BESS
   Up to 9 trucks

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Results overview



Scenarios

1. Peak charging, no BESS
   Grid connection too small
2. Smart charging, no BESS
   Not enough capacity for 5 trucks
3. Peak charging with BESS
4. Smart charging with BESS
5. Max charging with BESS
   Up to 9 trucks

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Case Van Wijk



4,3 MWh
Storage

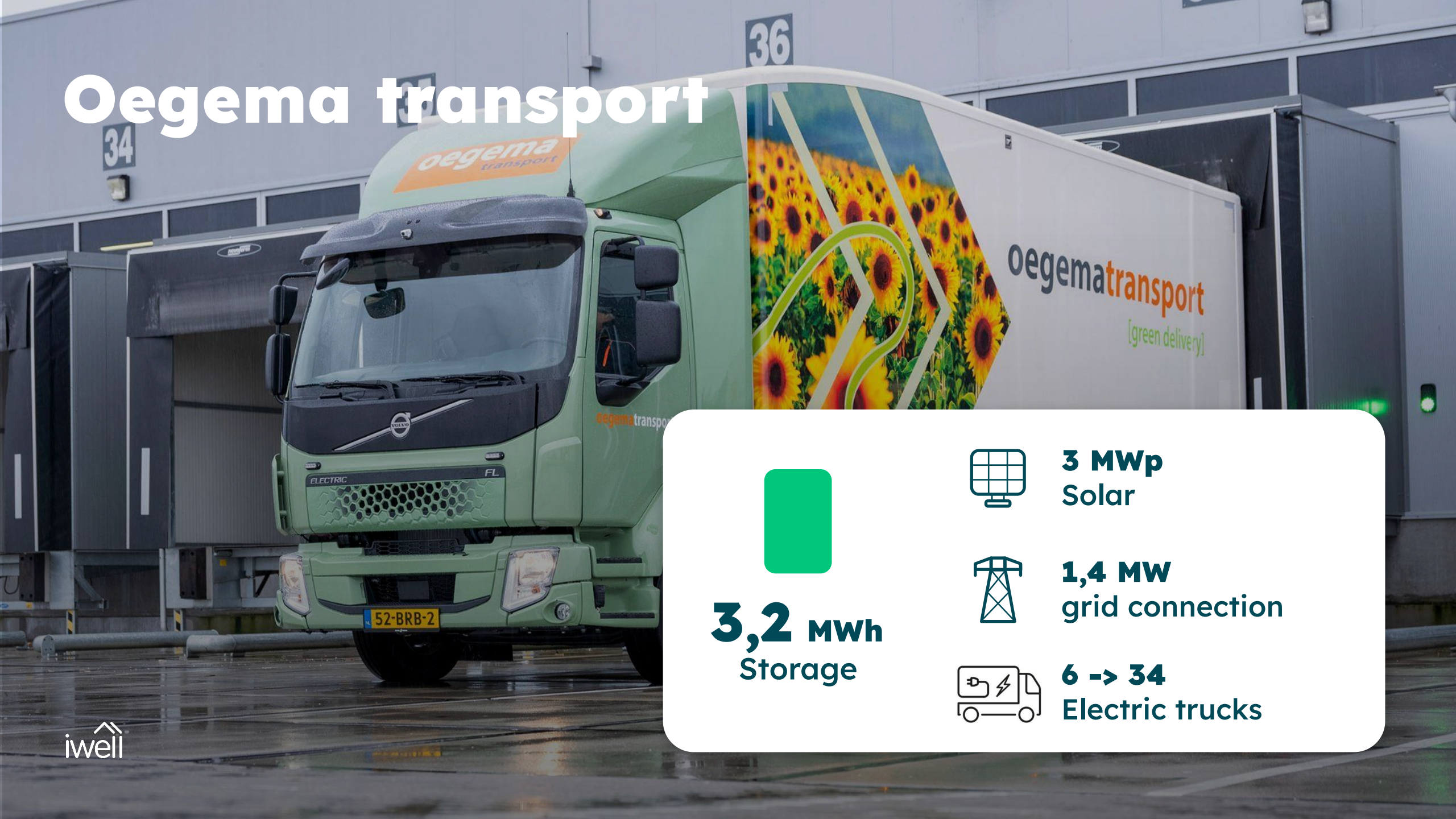
1,5 MWp
Solar

238 kW
grid connection

10
Electric trucks

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Oegema transport



3,2 MWh
Storage

3 MWp
Solar

1,4 MW
grid connection

6 -> 34
Electric trucks

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Looking forward to discuss further



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