



**Flanders**  
State of the Art

# Renewable energies

SustainableSolutionsMatch

**Welcome!**



SustainableSolutionsMatch

# Welcome & Introduction

## Who's moderating?



**James Snelgrove**

Business West  
Bristol, United  
Kingdom



**Justus Schünemann**

NRW.BANK  
Düsseldorf, Germany



**Sabrina Wodrich**

ZENIT Center for  
Innovation and  
Technology in NRW  
Mühlheim,  
Germany



**SustainableSolutionsMatch**

# Welcome & Introduction

Let's play by the rules: smooth sailing for our session!

- **Mute Policy:** Please remain muted unless speaking to avoid background noise.
- **Q&A Time:** After each pitch, there will be 1–2 minutes for questions. Please use the chat to ask questions.
- **Session Recording:** This session will be recorded.
- **Time management:** Pitchers, please keep track of your time. We will inform you if 5 minutes have passed.
- **Technical Issues:** If you encounter issues, use the chat to notify the host.



# Session Agenda

- Welcome & Introduction
- Sustainability in the energy sector
- Pitch Presentations:
  - Pitch 1: Sun2Fold (Germany)
  - Pitch 2: Grid Imp (UK)
  - Pitch 3: Scan the Sun (Poland)
  - Pitch 4: Sollhyd (Belgium)
  - Pitch 5: WeSmart (Belgium)
  - Pitch 6: HyKinetics (Italy)
  - Pitch 7: DHP Technology AG (Switzerland)
- Closing Remarks







Solution Title:

**Mobile solar power plants by Sun2Fold**

Company Name:

**Loick Sun2Fold GmbH**

(a company of German Loick AG)



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**Sun2Fold delivers 134 kWp of green solar power on just 800 square meters – flexible and mobile, wherever it is needed and thereby reducing CO2-emissions.**

A movable 20-foot container is equipped with bifacial photovoltaic module hats that can be extended and retracted on an aluminum track to generate green power for a variety of purposes on different surfaces.



# Three model types for your individual needs.



## PRO

Output: **134 kWp**  
Size: L 130m\*W 6,1m\*H 2,9m  
Weight: ca. 14t  
Quantity of modules: 200 Stück

## COMPACT

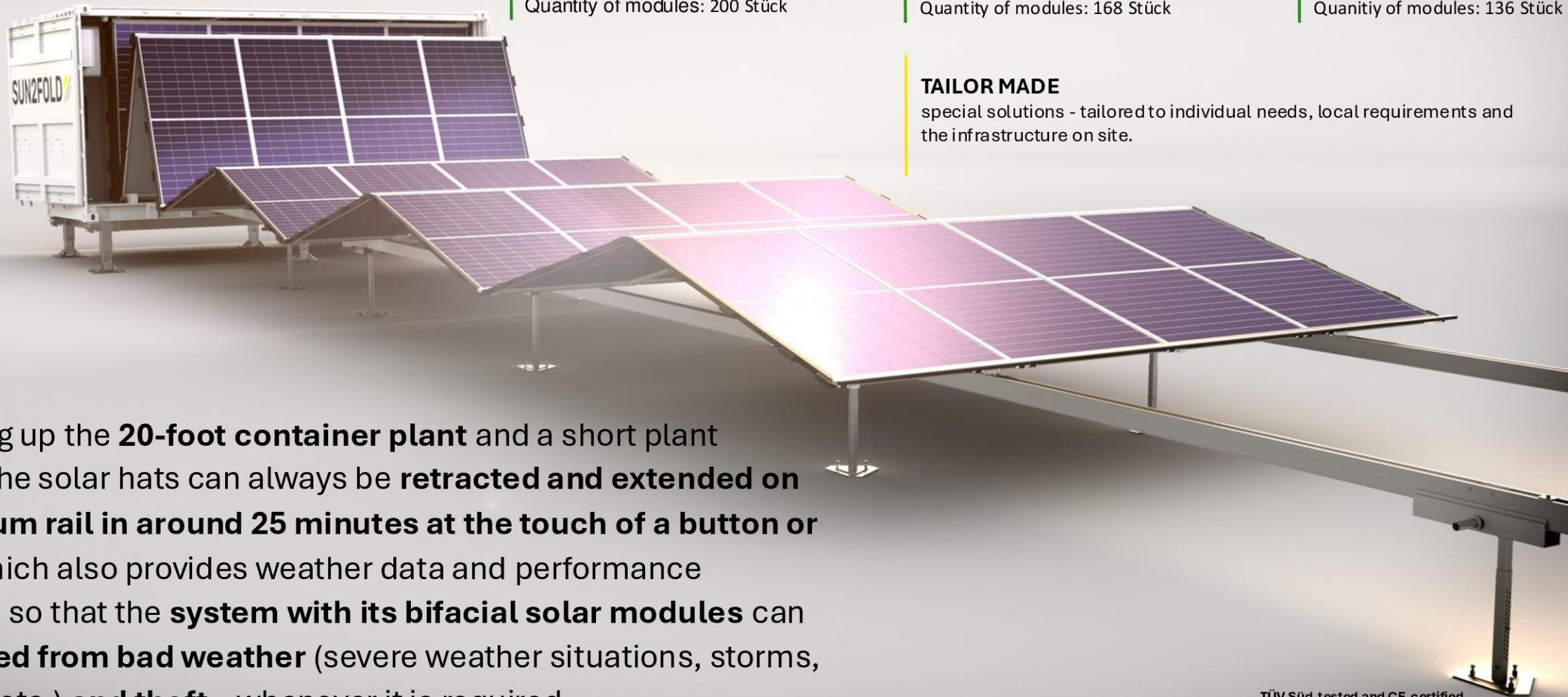
Output: **112,56 kWp**  
Size: L 110m\*B 6,1m\*H 2,9m  
Weight: ca. 13t  
Quantity of modules: 168 Stück

## SMART

Output: **91,12 kWp**  
Size: L 90m\*B 6,1m\*H 2,9m  
Weight: ca. 11,5t  
Quantity of modules: 136 Stück

## TAILOR MADE

special solutions - tailored to individual needs, local requirements and the infrastructure on site.



After setting up the **20-foot container plant** and a short plant assembly the solar hats can always be **retracted and extended on an aluminum rail in around 25 minutes at the touch of a button or via app** (which also provides weather data and performance indicators), so that the **system with its bifacial solar modules** can be **protected from bad weather** (severe weather situations, storms, hail, snow, etc.) **and theft** – whenever it is required.





- /// Sun2Fold produces **green power from renewable energy resources directly on site – exactly where the power is needed.**
- /// Mobile and flexible, even **for temporary use**. Wherever areas are too small for ground-mounted photovoltaic systems and roof-mounted photovoltaic systems are not an option – and the operator attaches importance to being able to protect the solar modules by simply and quickly retracting the solar system.
- /// Sun2Fold generates energy not only for your own supply, it also **creates additional revenue streams – through the sale of surplus electricity – and ancillary revenue** (e.g. through CO2 certificates and GHG quotas).



Sun2Fold offers an ideal solution for **flexible and self-sufficient power generation** from green energy resources for a variety of different purposes – such as:

- /// Mining & opencast mining
- /// Agriculture & farming
- /// Construction industry
- /// Sport events & live entertainment
- /// Commercial warehouses & logistics properties
- /// Industrial manufacturing & production
- /// Wind turbines & wind farms
- /// Civil protection & development aid
- /// Support for regional infrastructure and local energy supplies

The system **can be operated both on-grid and off-grid**, which ensures complete self-sufficiency – **supplemented by suitable energy storage solutions if required**, so that electricity can also be supplied during periods of darkness.







Which partner are we looking for?

In addition to customers, we are currently looking for **sales partners** and partners for the development and expansion of **international sales structures**.





Book a meeting with:

# Loick Sun2Fold GmbH

## Nils Rottsahl

Heide 26  
46286 Dorsten  
Germany

Telefon: +49(0)2369 9898 20  
E-Mail: [nils.rottsahl@sun2fold.com](mailto:nils.rottsahl@sun2fold.com)

**[www.sun2fold.com](http://www.sun2fold.com)**

Geschäftsführung:  
Hubertus Loick, Stefan Kirner



[een.ec.europa.eu](http://een.ec.europa.eu)





# Energy Flexibility Services Platform

**Gridimp**

**Richard Ryan**  
**Commercial Director**



**SustainableSolutionsMatch**

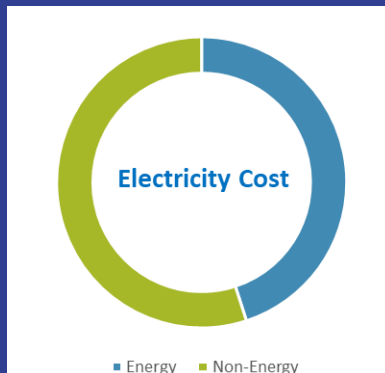




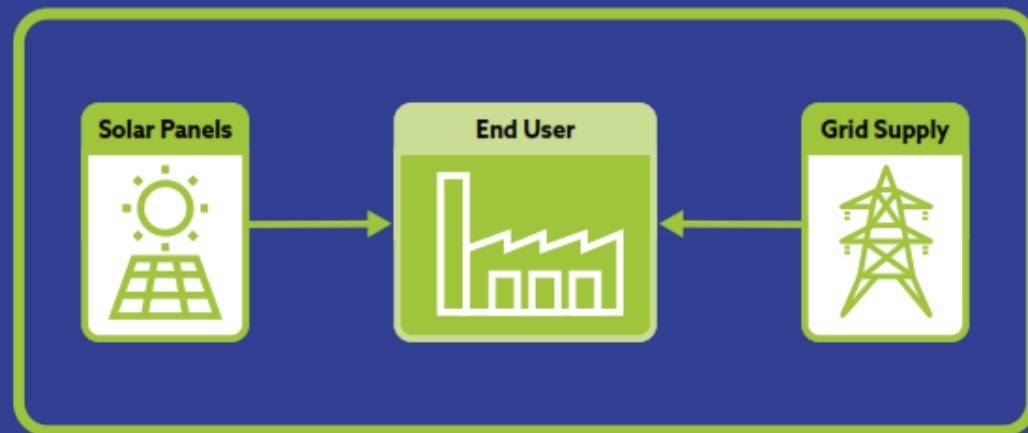
Turning business  
energy users into  
**smart, flexible, low  
carbon** consumers.



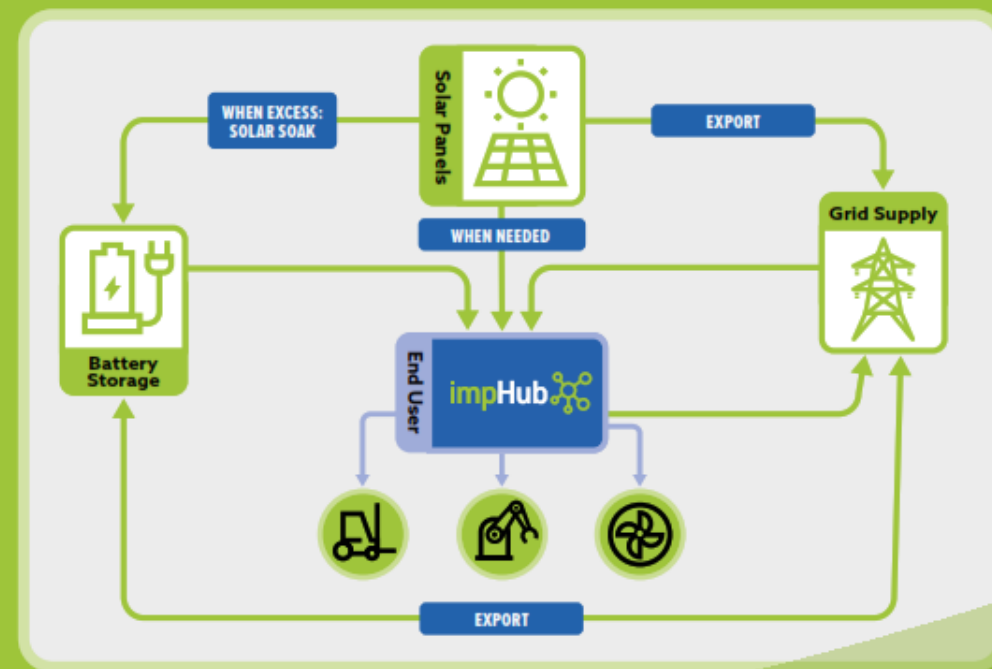
# The Energy Relationship of the Future.



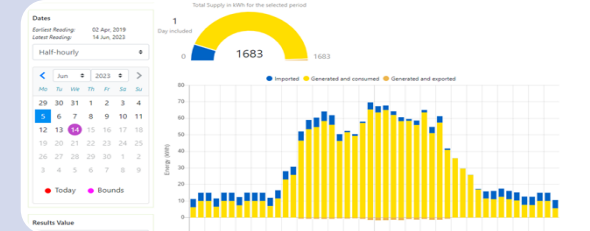
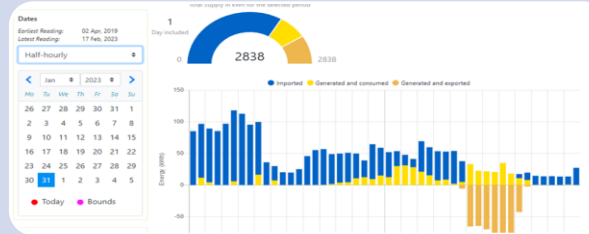
**Passive approach:** The old model...



→ **The Future:**  
Interactive Flexible Energy Relationship...



# Client Example demand 1.5MWh/day



## Investment

Confidence to invest  
over £400k, clean  
generation & storage  
with Sub 4-year payback

## Winter Response

Flex trading delivered  
stacked revenue paid  
for actions > £400 per  
workday

## Summer profile

≥ 90% energy  
independence  
> 50% reduction in  
energy spend

# How the Gridimp Flexibility Platform works

You get platform access to the impCloud. Here you can access meter data, manage clients and perform remote analytics.

The impCloud is a powerful software platform that runs machine learning programs and supports multiple integrations to flexibility markets & data flows. This allows it to deliver market leading advanced energy data services



Automated control requires an impHub to be installed at a client site. The impHub is Machine learning enabled and performs control and analytics on site.

The impHub is connected to EV chargers, HVAC, process load, Generation & Batteries, which it controls to benefit the client.

The impHub learns onsite needs and responds in real-time to minimise price & carbon



Smart Microgrids and Automated Flexibility Trading

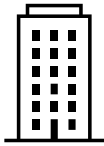
T: +44 (0)1749 372198 | E: [info@gridimp.com](mailto:info@gridimp.com) | W: [www.gridimp.com](http://www.gridimp.com)



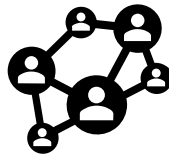
# Platform Services: Who we sell to

Direct  
Sales

Referral Partners / Sales Channels



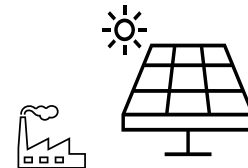
Client referrals



**Energy Companies**  
Flexibility Platform  
Services



**Distributor led**  
Capex funded



**Green Technology**  
**Installers & OEMs**  
Battery ,Solar, ASHP etc.



**M&E design engineers**  
Optimisation & Smart  
Microgrids

Direct

Primary Gateway to signing up new Gridimp Clients

End Client / User of Gridimp Services & Products

# Partner Benefits:

## Referral Partners / Sales Channels



**Energy Companies**

### Innovation

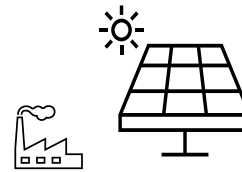
1. Identify & forecast Solar Generation
2. administer flexibility programs
3. Innovate supply contracts



**Distributer led**

### Distribution

1. Increase yield form Capex funding
2. Cope with unstable grid supply
3. Enable peer to peer trading



**Green Technology  
Installers & OEMs**

### Sales

1. Size solutions correctly
2. Quantify benefits & add value
3. Speed up sales cycle



**M&E design engineers**

### Value addition

1. Run ML driven simulations
2. Deliver complex solutions
3. Innovate energy decarbonisation

#EENCanHelp

# Book a meeting with: Company name

**Richard Ryan**  
Commercial Director  
Gridimp  
richard.ryan@gridimp.com



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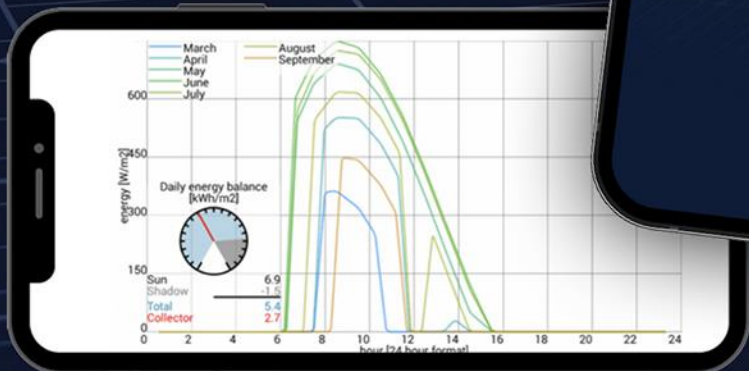
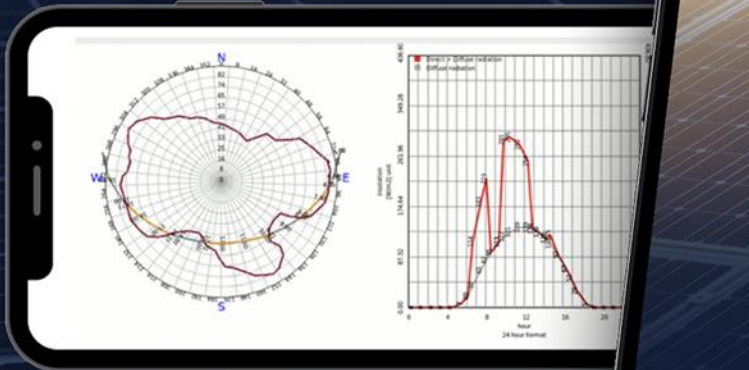
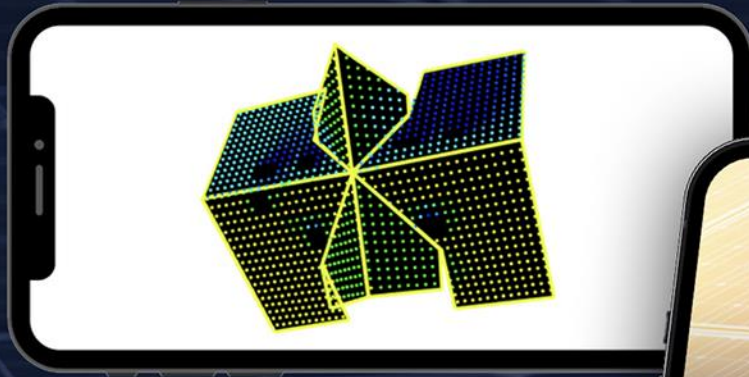
# SCAN•THE•SUN

**Gain up to 38% more Energy  
from Solar PV**

**Design Solar PV in 1 minute !!!**

**Fully automated App !!!**

**As easy as 1,2,3**



## VALUE PROPOSITION: Fully automated PV designing App

✓ in 1 minute precise design & proposal

✓ As easy as 1,2,3

✓ Up to 38% more energy yield

✓ On-site and/or remotely

✓ no need to climb on the roof

✓ Even for non-specialist

SCAN•THE•SUN



Supported by 20,000 + users in 175 countries !!!



## Challenge:

There is no tool on the market **to effectively** speed up Solar PV adoption

### **B2C: Individual consumers ask:**

How do I know Solar PV  
makes sense for me

### **B2B: PV professionals ask:**

„How to guide clients  
from the initial search for information  
to the final decision “





## MARKET - AUDIENCE

### ENTERPRISE

#### Utility companies

1 stop „on-spot“ offer

Customized with hardware  
models & pricing

Remote 1st draft capability

**Master License:  
Unlimited sublicenses**

### B2B SME

#### Solar PV installers

A quick tool to guide clients

Sales & designing tool

**Competitive SaaS  
license per user**

### B2C

#### Individuals

Individuals get objective  
information

Simplified B2C version

**1 time small fee**

## Cooperation partners:

Green Energy solution providers

Energy companies – Solar PV installers

Communities – want to save with Solar PV

#EENCanHelp

# Book a meeting with: Company name

**Jacob Leja**

MD

ScanTheSun

[jakub@scanthesun.com](mailto:jakub@scanthesun.com)



[een.ec.europa.eu](http://een.ec.europa.eu)



# APPENDIX 1: HOW THE APP GETS UP TO 38% SOLAR PV EFFICIENCY ?

**ALL THE USERS DOES IS** TO TAP ON THE PHONE'S INTUITIVE SCREEN

**& RECEIVES COMPLETE** PROJECT IN 1 MINUTE !!!

**SIMILAR TO SMARTPHONE CAMERA USAGE** **or** MS PAINT

Roof geometry measured with AR module. Each surface has its tilt and direction data.

Surrounding trees/building are measured with AR to avoid shading.

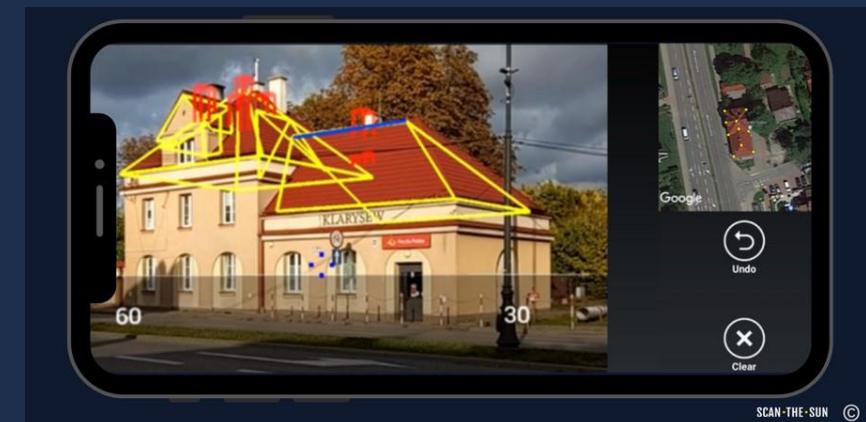
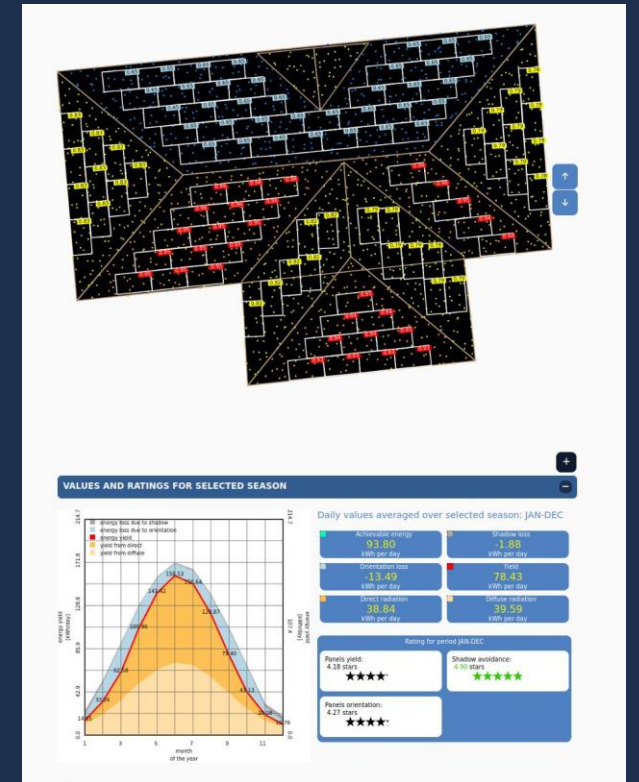
All geometry of the installation site is known.

Optimization calculates the best direction and tilt (to roof Surface) considering:

1. Roof geometry and roof self-shadowing
2. Geometry of all obstacles around and their shadowing
3. Direct and diffuse solar Energy streams distribution reaching the panels between obstacles/roof
4. Weather satellite data for actual location
5. Panels optics (how the panels see the sunlight)

**THE BEST TILT & PANELS SPACING IS CALCULATED FOR EACH  
ROOF SURFACE BASED ON THE ABOVE DATA & SMILULATIONSN**

SCAN•THE•SUN



## APPENDIX 2: NEW WAY vs OLD WAY

### Real-life tests multi - unit housing

- Time to decision is **LESS**
- Installation time & cost is **LESS**
- Energy effectiveness is **UP**
- Sales & installers effectiveness is **UP**

Effective installation project (NEW):

→ Number of panels: 175

VS.

Standard installation project (OLD):

→ Number of panels:



## Solution title

*The smartest way to go  
from solar to hydrogen*

Solhyd

**Solhyd**

**Wim Vandebroek**  
**Business Development**







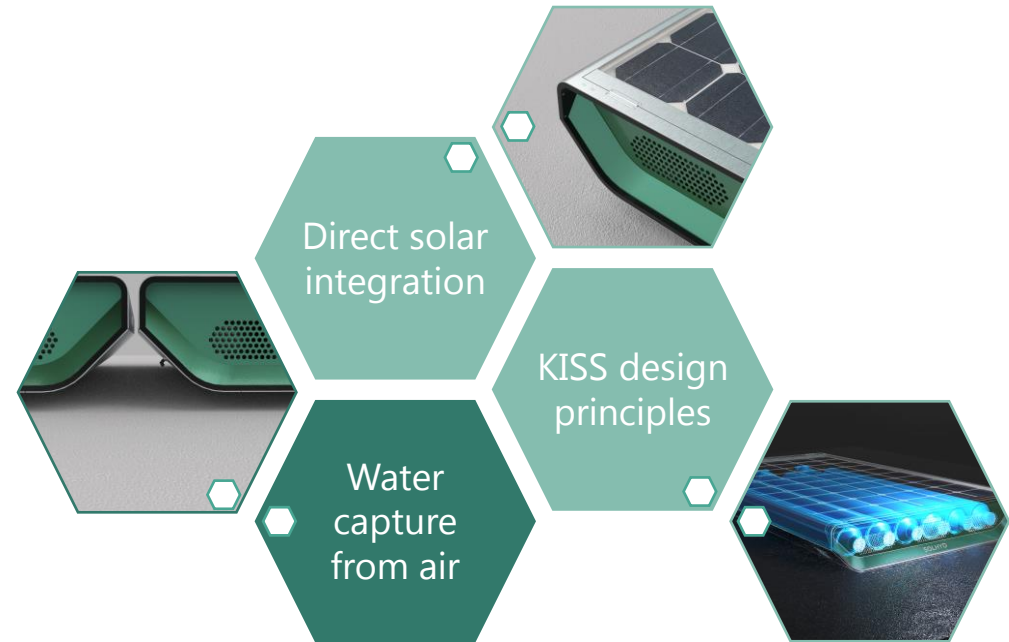
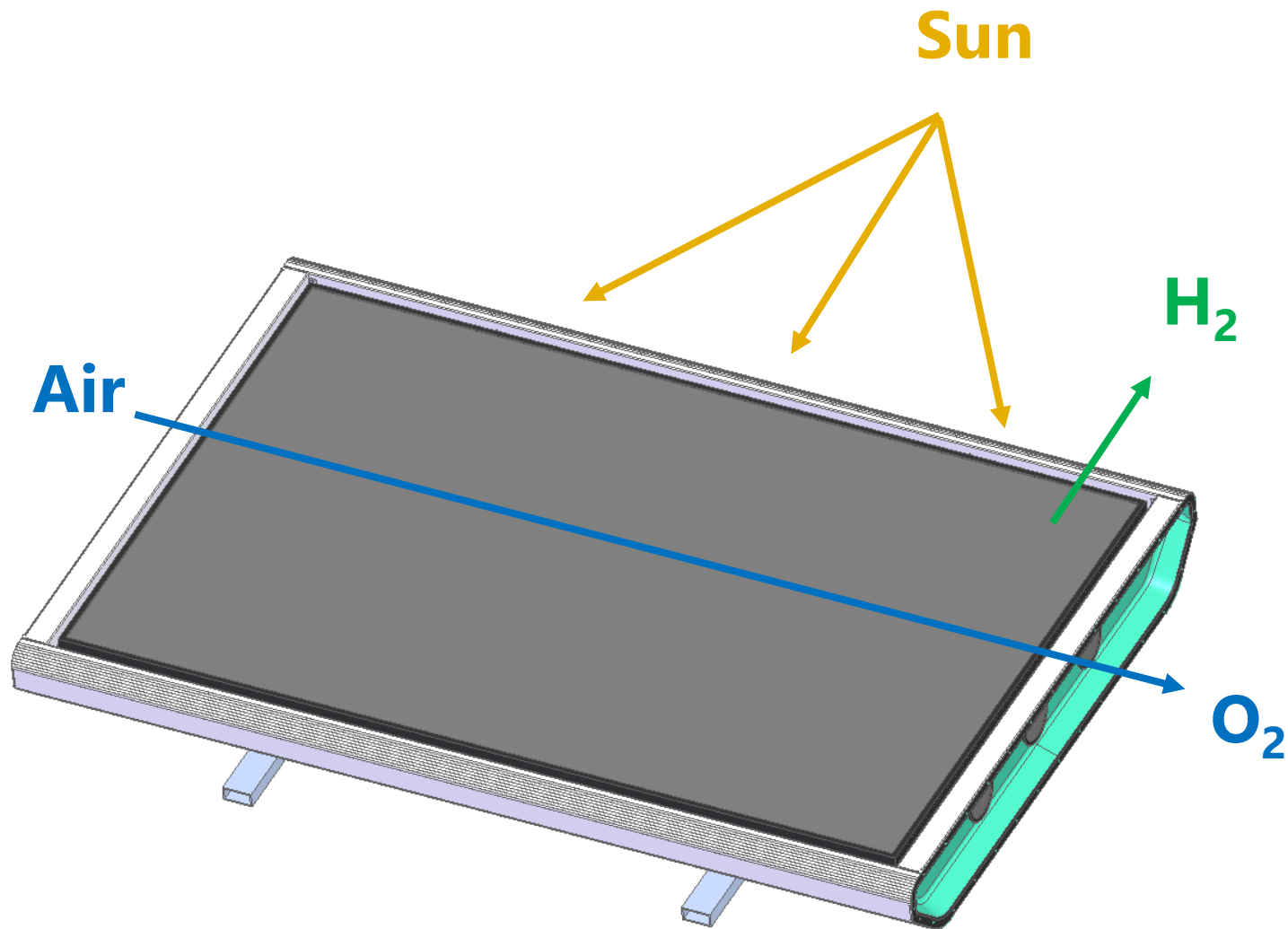
SolHyd  
HYDROGEN PANELS

**Green Hydrogen accessible to everyone**

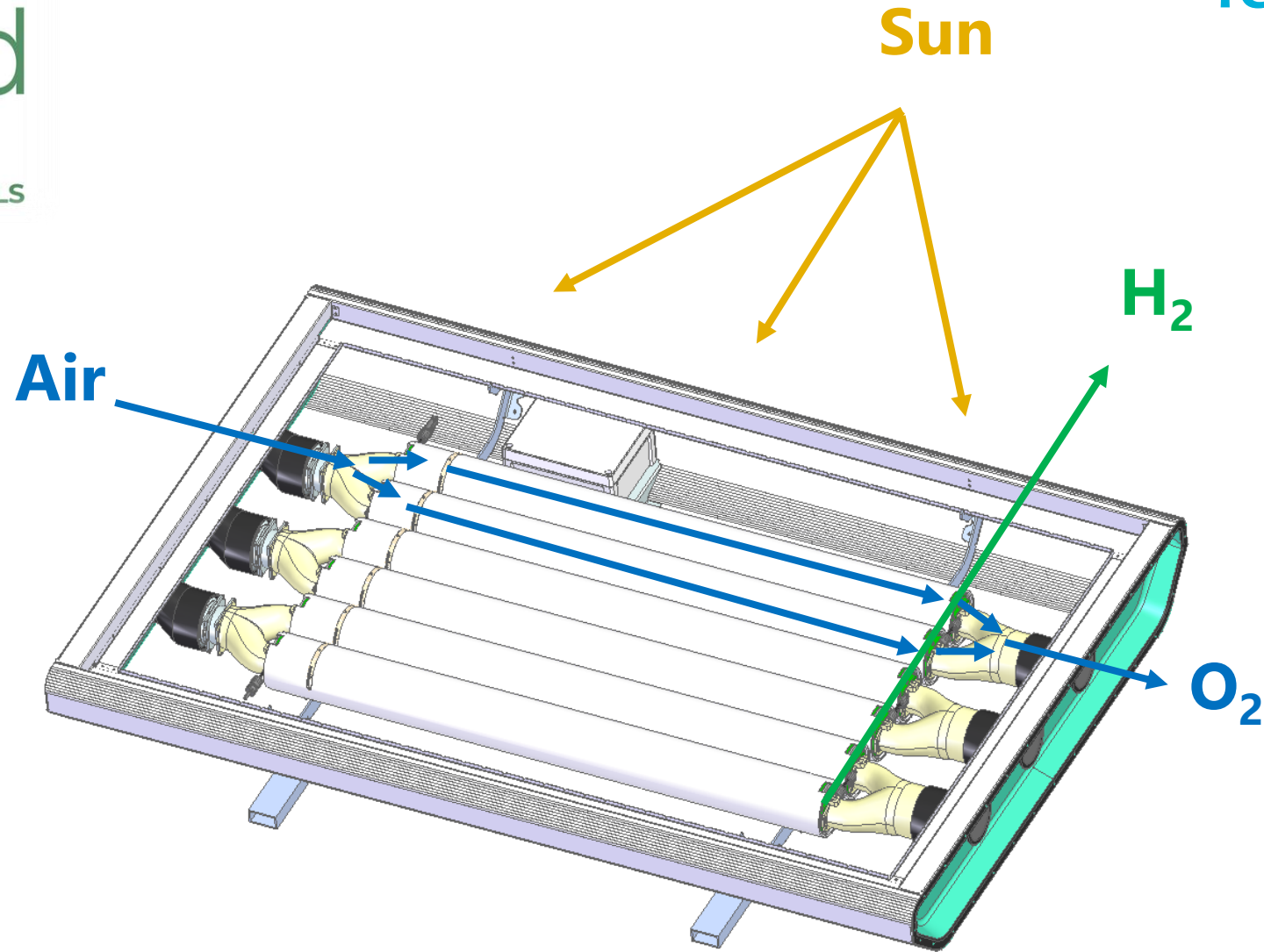


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Hydrogen production simplified by direct solar integration and water captured from the air



Patented hydrogen panels operate autonomously at the pace of the sun (optional additional electricity source)

# Hydrogen Simplified - Technology benefits



## **PERFECT MATCHING WITH SOLAR**

*No degradation issues, no minimal load, low OPEX*

## **MODULAR**

*No lock-in, no scaling limits, low CAPEX*

## **NO WATER**

*No pumps, no purification, no contaminants, no frost, low OPEX*

## **NO GRID DEPENDENCY**

*No copper, no rectifier, no additionality issues, low OPEX*

## **ZERO NOBLE METALS**

*No expensive materials, no supply chain issues, low CAPEX*

## **AUTONOMOUS OPERATION**

*No energy management, no maintenance, low OPEX*

Lower CAPEX - Less OPEX - Less Management – Scalable

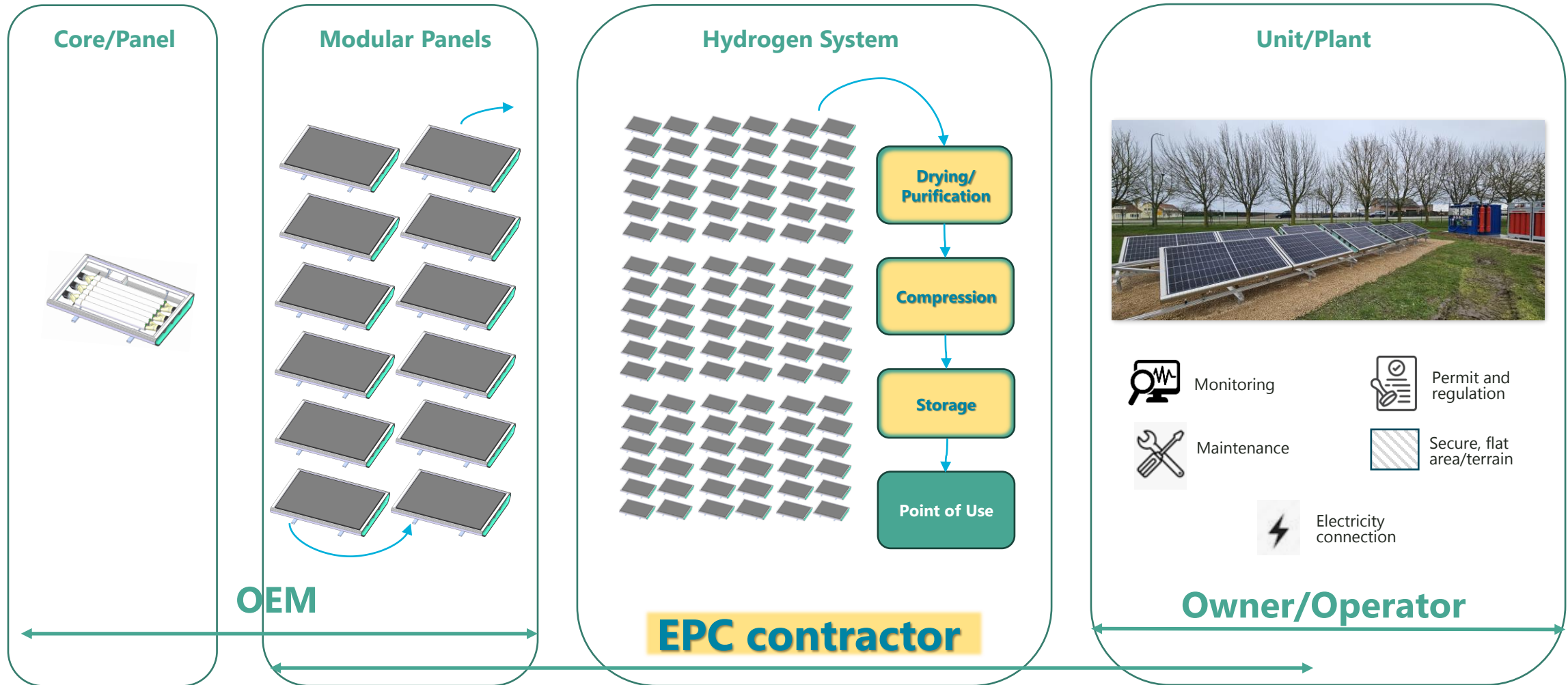




## SOLHYD APPLICATIONS: 0,5 to 20 MW

- Solar Plant Energy optimisation
- Heavy Duty Mobility, Shipping
- Industrial Feedstock for Industrial processes
- Process Gass – Metal, glass, Semiconductor, ...
- Low pressure direct consumption, distribution
- Specialty applications, labs, ... starting from 5kW

# From Panel to Plant (0,5 to 20MW)



Partner opportunities with EPC's/System Integrators



#EENCanHelp

# Book a meeting with: Solhyd

**Wim Vandebroek**

Business Development Director

[www.Solhyd.eu](http://www.Solhyd.eu)

[wim.vandebroek@solhyd.eu](mailto:wim.vandebroek@solhyd.eu)

[info@solhyd.eu](mailto:info@solhyd.eu)



[een.ec.europa.eu](http://een.ec.europa.eu)





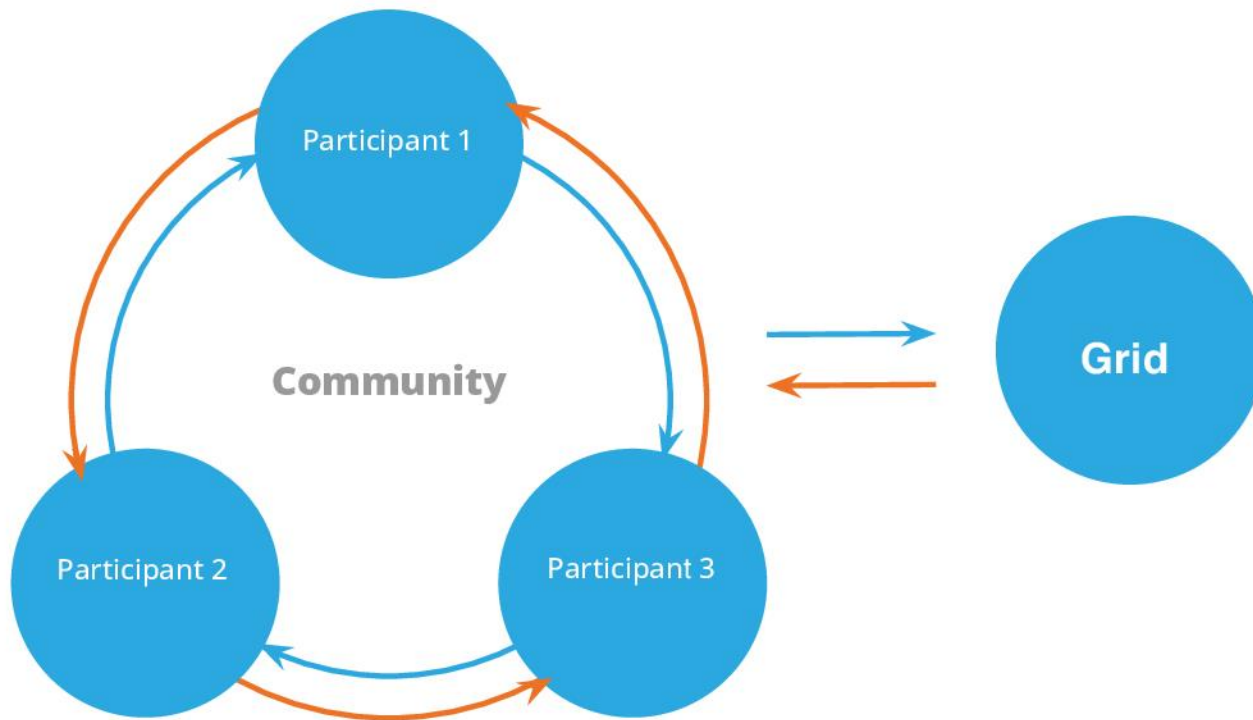
# Energy for Communities

wesmart

thepowerofwe

# Energy communities: the next Energy Revolution

The European Union Renewable Energy Directive RED II entered into force in December 2018, **Clean Energy for all Europeans Package**. The RED II and RED III directives define **Renewable Energy Communities (RECs)**, introduces a governance model for them and the possibility of energy sharing within the REC.



# WeSmart digital platform for energy communities

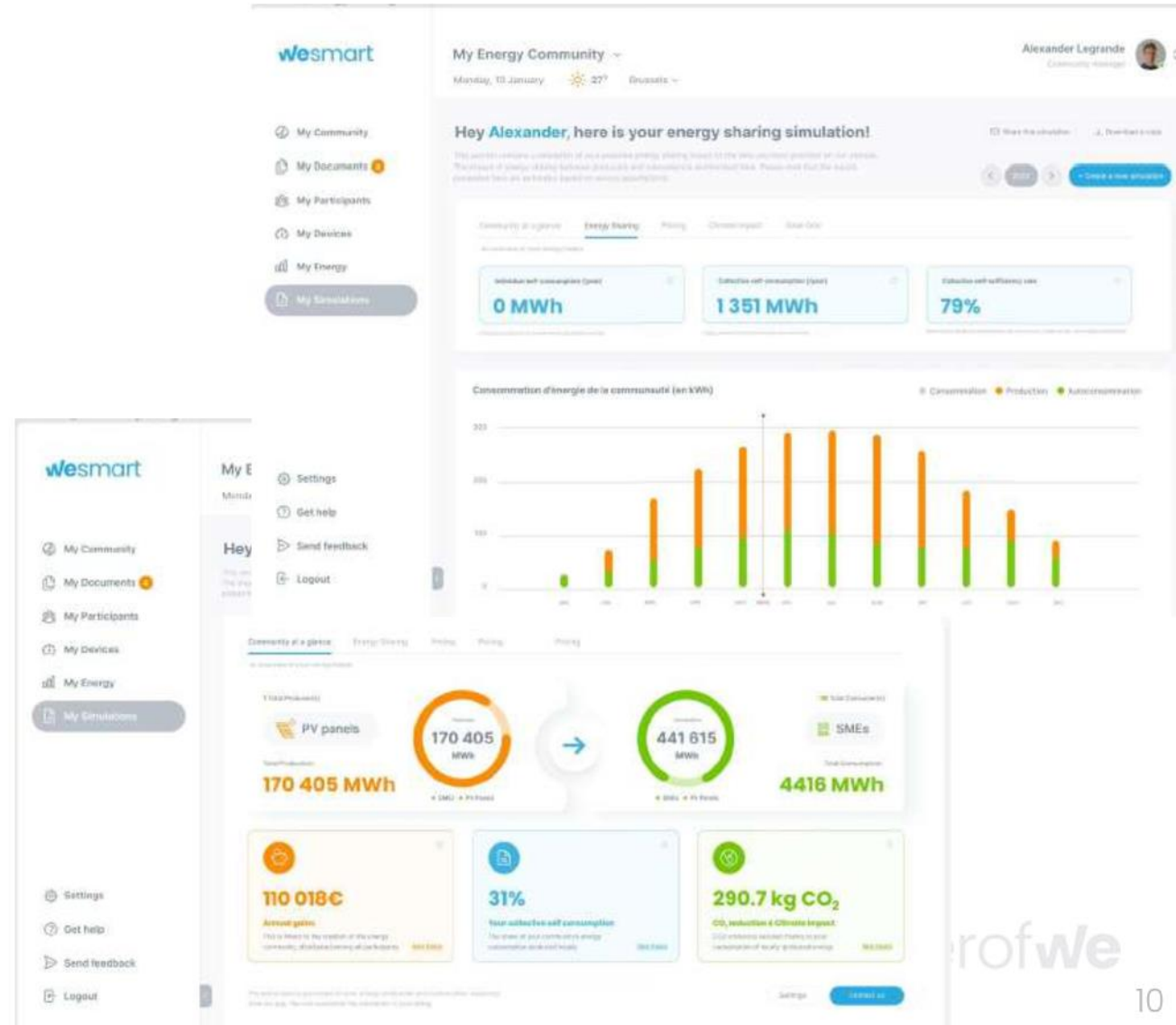
- ✓ Quick installation
- ✓ Participant management
- ✓ Equipment management
- ✓ Flow management and distribution
- ✓ Billing of participants
- ✓ Optimisation and recommendations
- ✓ Creating and sharing reports



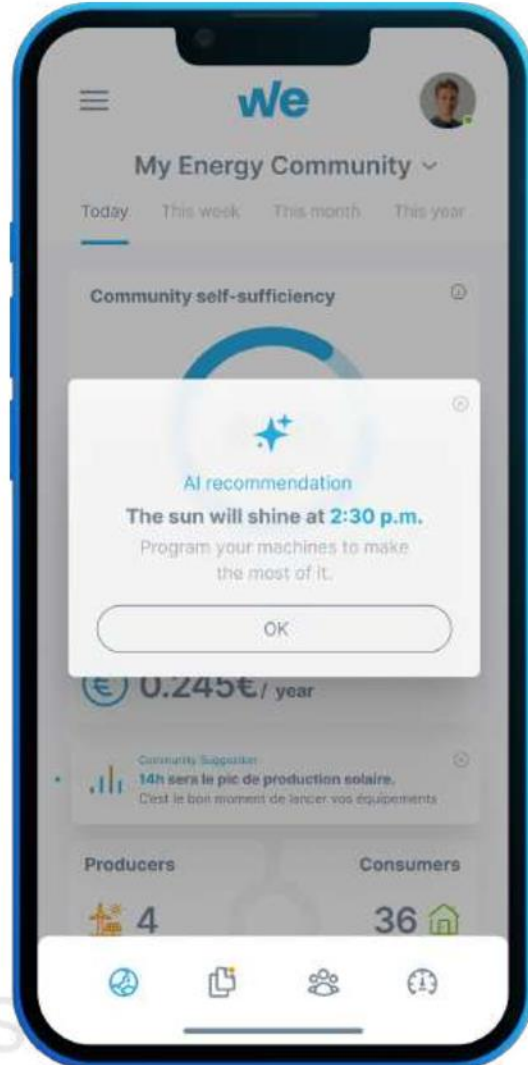


# Our simulator

- ✓ Enter your data
- ✓ Define and test hypotheses
- ✓ Estimate of the energetic and economic benefits in a tailored report
- ✓ Define practical steps to set an energy community



# Our latest innovation



- ✓ **AI recommendations for consumption**
- ✓ **Linked to weather forecast and consumer profiles**
- ✓ **Encourages behavioural change**

# Client benefits



Savings



Care for the  
environment



Community  
sense



Better  
image

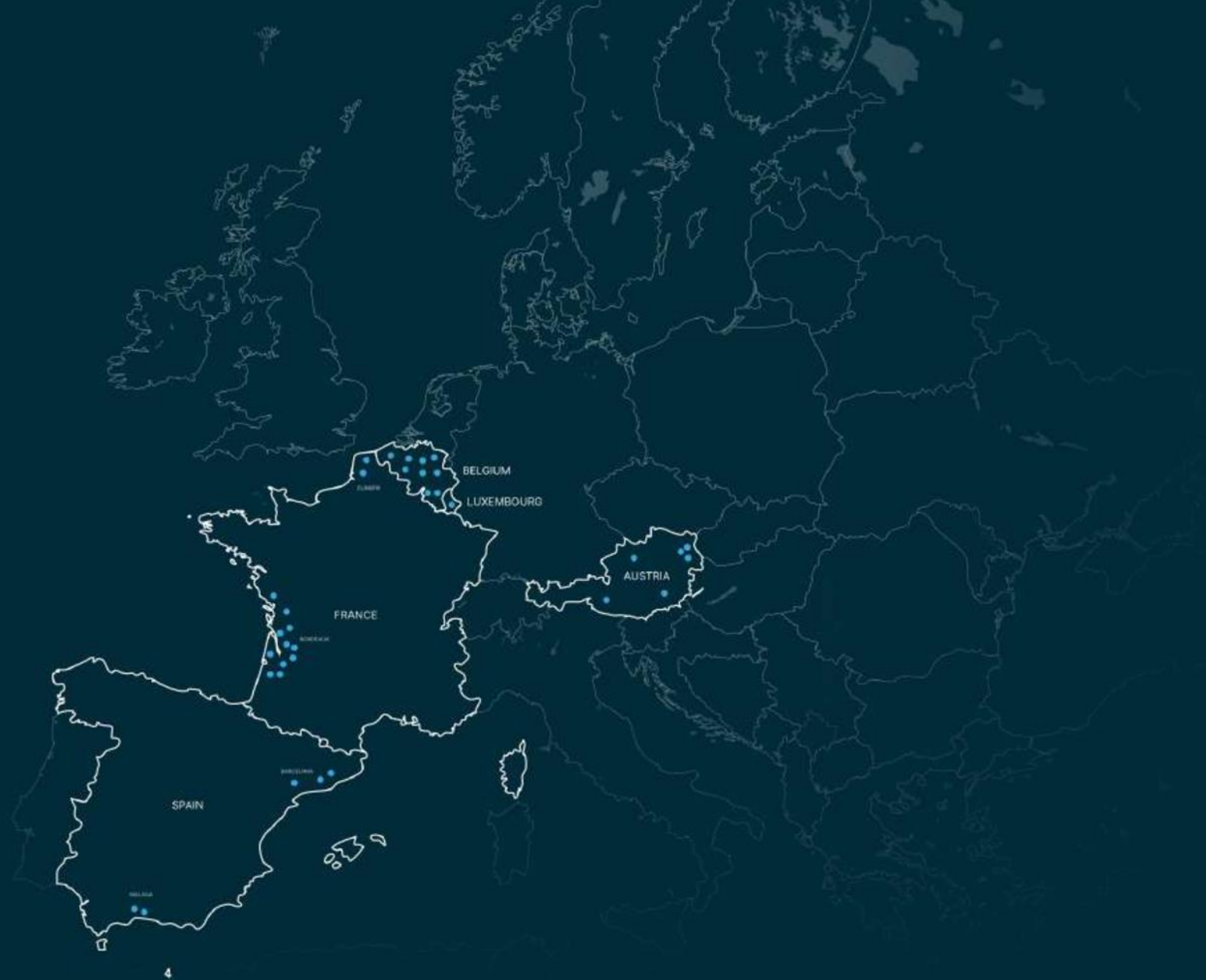


# Our customers

Municipalities

Real estate owners

Renewable developers



# Over 100 communities in the pipeline

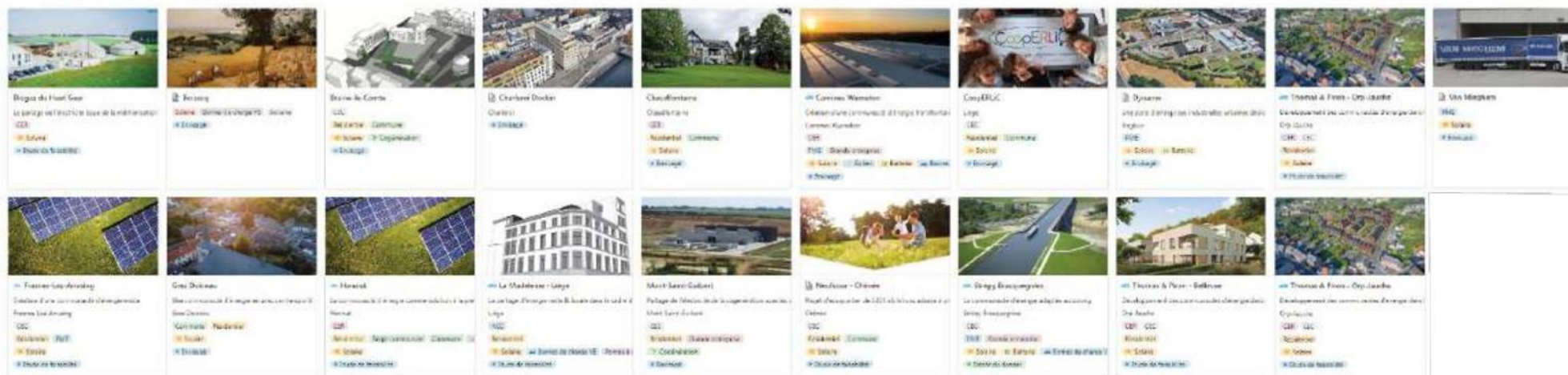
## Brussels



## Flandre



## Wallonie



## No Region



Potential partners:  
Solar developers  
Solution providers  
Research centres



# wesmart

# Thank you



**François Bordes, CEO**

@ francois@wesmart.com

+32 476 94 49 17



**Caroline Kamm, Communications**

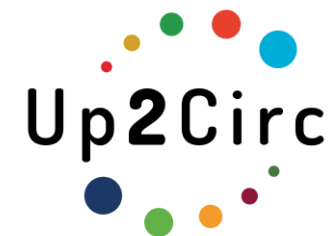
@ caroline@wesmart.com



Rue Dieudonné Lefèvre 17 – 1020 Brussels  
15 Rue du Jeu de Mail – 59140 Dunkerque







**An innovative hydro micro-turbine to turn the power of water into a green, cheap and reliable source of energy with near zero environmental impact.**

COS.B.I. – A Rebecchi Group Company

**Rossella Rebecchi**

CEO of COS.B.I., part of Rebecchi Group



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# The solution

Rebecchi Group, within its innovation activities, is engaged in several projects related to energy transition, including the **design and construction of SHP-sized hydroelectric plants** for green electricity production.

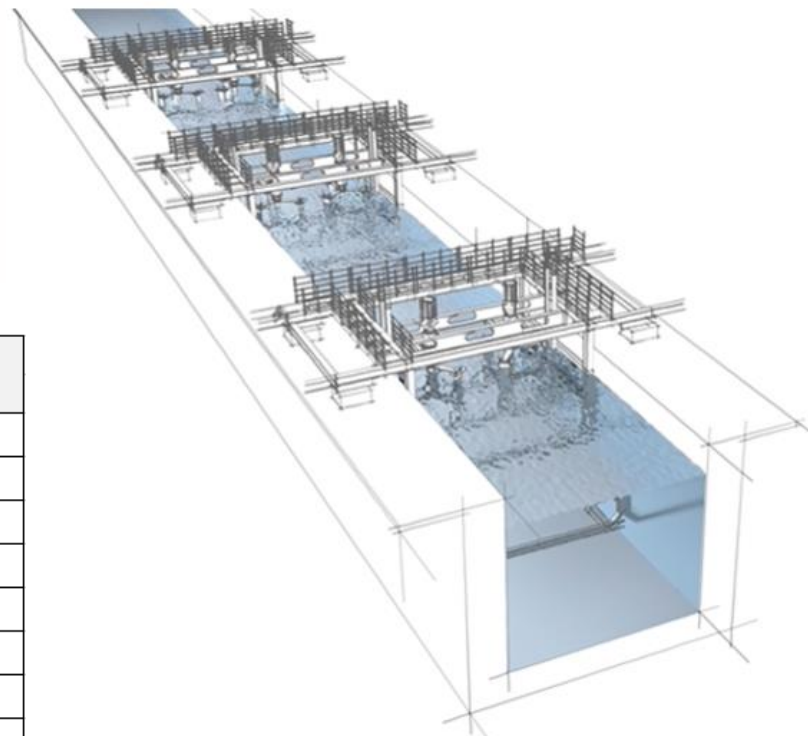
Thanks to the research activities carried out in collaboration with the **University of Padua**, Rebecchi Group has developed HyKinetics, a microturbine whose innovative features led HyKinetics technology to be **patented**.



# Technology details

**Types of HyKinetics Plants**

Main Characteristics		Minimum	Maximum
Plant Output (kWp)		1	200
Grid connection system		On-grid / Off-grid	
Number of turbine per plant (No.)		1	10
Number of modules per turbine (No.)		1	4
Turbine control systems (No.)		1	10
Rotation axis (description)		Horizontal / Vertical	
Turbine rotational speed (rpm)		10	100
Turbine module size (mm)	Variable length	1.000	3.000
	Variable diameter	1.000	6.000
Min. power output waterway speed (m/s)		1	
Max. power output waterway speed (m/s)		4	
Working operating conditions (description)		Submerged	
Recycle factor by weight (%)		92	96
Maximum noise level recorded for current installations (L <sub>95</sub> dB(A)) *)		43,0 +/- 1.6	





# Differential value and sustainable impact



## Near zero environmental impact

No civil works; no noise as turbines work under water; near full recyclability of materials and components.



## Adaptability

The technology allows the development of hydro-plants adaptable to almost all watercourses in their different shapes and sizes.



## Producibility

HyKinetics plants are designed to maximize the available energy from the water flow while ensuring cost-effectiveness for a fast pay-off.



## Reliability and safety

Reliability and safety are ensured by an accurate implementation from design, engineering, manufacturing, testing, delivery to site up to operation.



# Market/Target audience

- Large and Small Hydro Power Companies
- Utilities
- Water Management Consortia
- Local Communities and Municipalities



**Rivers**



**Canals**



**Gutters**



**SustainableSolutionsMatch**

# Partners we would like to connect with

The market in Europe has been evaluated based on an **analysis of the opportunities present in various countries.**

The partners we are seeking in the European market are private companies that have **industrial relationships** with potential clients, with **procurement and construction capabilities**, and ordinary and extraordinary **maintenance services** to ensure the operational continuity of the plants, including emergency interventions.





#EENCanHelp

# Book a meeting with: COS.B.I. – Rebecchi Group

**Rossella Rebecchi**

CEO

COS.B.I. – Rebecchi Group

[r.rebecchi@rebecchigroup.it](mailto:r.rebecchi@rebecchigroup.it)

Ph. +39 0523 508080



[een.ec.europa.eu](http://een.ec.europa.eu)



HyKinetics is a project by COS.B.I. S.R.L.

REBECCHI GROUP







dhp



Solarfaltdach HORIZON



# Solar foldable roof HORIZON by dhp technology AG

Janick Staub  
Head of Sales



Sustainable Solutions Match



**dhp is the leading and fast-growing supplier of PV for dual-use infrastructure in Europe**





# Free access for maintenance on waste water treatment plants





# Maximum energy production, maximum clearance

The solar folding roof enables large-scale decentralised electricity production for e-mobility







Enabling large-scale decentralised electricity production for  
e-mobility



**You've got 1'500m<sup>2</sup> ? Unlock your solar potential & maximize your use of space.**





#EENCanHelp

dhp



Solarfaltdach HORIZON

# Thank you and let's connect:

Janick Staub  
Head of Sales  
dhp technology AG | CH-7205 Zizers  
+41 81 515 71 59 | [dhp-technology.ch](https://dhp-technology.ch)



[een.ec.europa.eu](https://een.ec.europa.eu)

dhp



Solarfaltdach HORIZON





# Closing Remarks

**A big thank you to all pitchers and attendees!**  
We appreciate your participation today.

If you'd like to connect with any of the pitching companies, please use the matchmaking tool to **book a meeting!**

Next available at

**09:00 - 09:30 CET**

Monday 10 February 2025

FEB

**10**

in 1 mo

**+ Request meeting**

Need support? **Enterprise Europe Network is here to help!**

Reach out to your local Network partner:

<https://een.ec.europa.eu/local-contact-points>



#EENCanHelp

# Thank you!

**James Snelgrove**

Innovation and Growth Specialist  
Business West, UK

James.Snelgrove@businesswest.co.uk

**Justus Schuenemann**

Funding Advisor  
NRW.BANK

Justus.Schuenemann@nrwbank.de

**Sabrina Wodrich**

Technology transfer and  
Internationalisation

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Sabrina.Wodrich@zenit.de



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*Wir stehen Unternehmen zur Seite*

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