SUSTAINABLE SOLUTIONS KORTRIJK

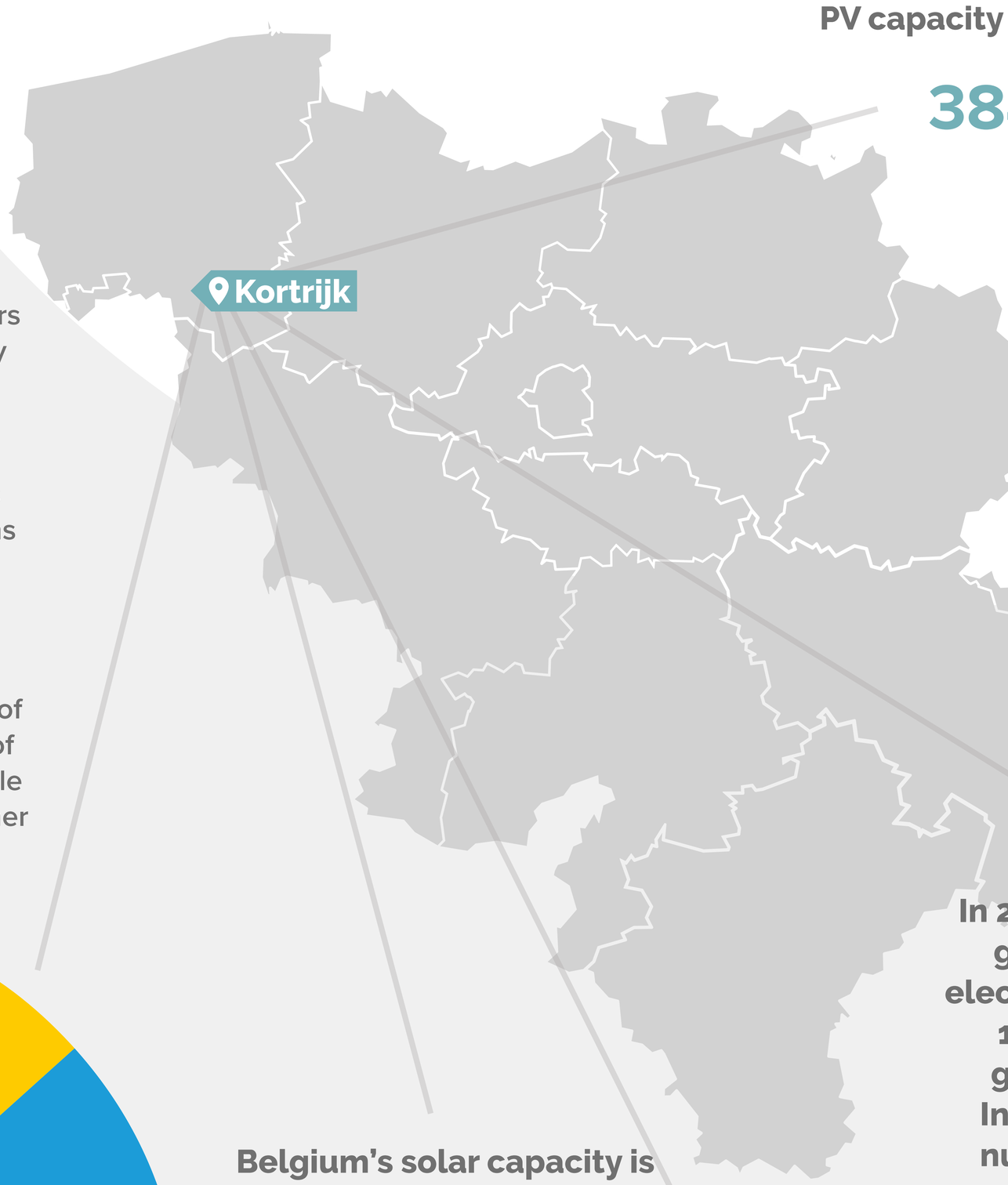
SOLAR SMART STORAGE EV CHARGING GREEN HVAC

On track to reach decarbonization goals

With one-third of its power generated from renewables, and three-quarters from decarbonized sources when nuclear power plants are included, Belgium is among the European leaders in the share of decarbonized electricity sources.

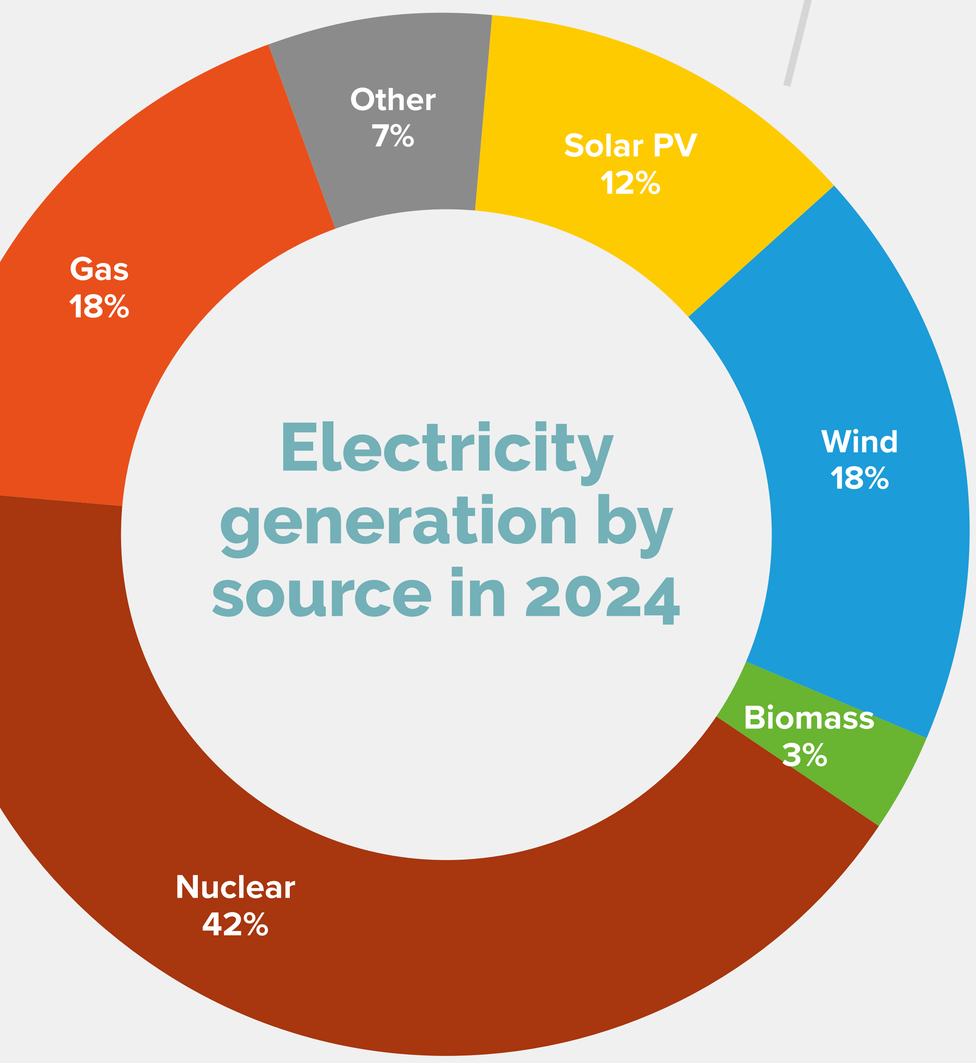
In order to reach National Energy and Climate Plan targets, Belgium requires 0.8 GW per year of new PV installations over the next five years.

Belgium is one of the European gateways for solar panels, but more importantly, it is a significant importer of battery storage devices. Around 70% of these batteries remain in Belgium, while the remaining 30% are exported to other EU countries.



In 2025, Belgium has the third-highest PV capacity per km² in Europe, with a projected

384 kW/km²



Electricity generation by source in 2024

Belgium's solar capacity is projected to reach 11.7 GWp by the end of 2025, representing a

10%

increase compared to the installed capacity in 2024[1].

In 2024, renewable sources generated 22.9 TWh of electricity, nearly double the 12.3 TWh produced by gas-fired power plants. Including 29.5 TWh from nuclear energy, Belgium produced

75%

of its electricity from low-carbon sources.

With 8.3 TWh in 2024, solar photovoltaics accounted for

11.9%

of all electricity generated in Belgium - the highest contribution to date.

Belgium on track for 2030 solar goal

For 2025, Belgium is projected to install 1 GW of new PV capacity, reaching 11.7 GW of total capacity by the end of the year. With the NECP target for 2030 at the level of 15.6 GWp, this means that over the next five years, Belgium will need to install 0.8 GW of new capacity per year. Considering the progress achieved over the past three years, this should not be a problem. The International Energy Agency (IEA) projects that by 2030, Belgium's total PV capacity could reach between 17.5 and 19.5 GW.

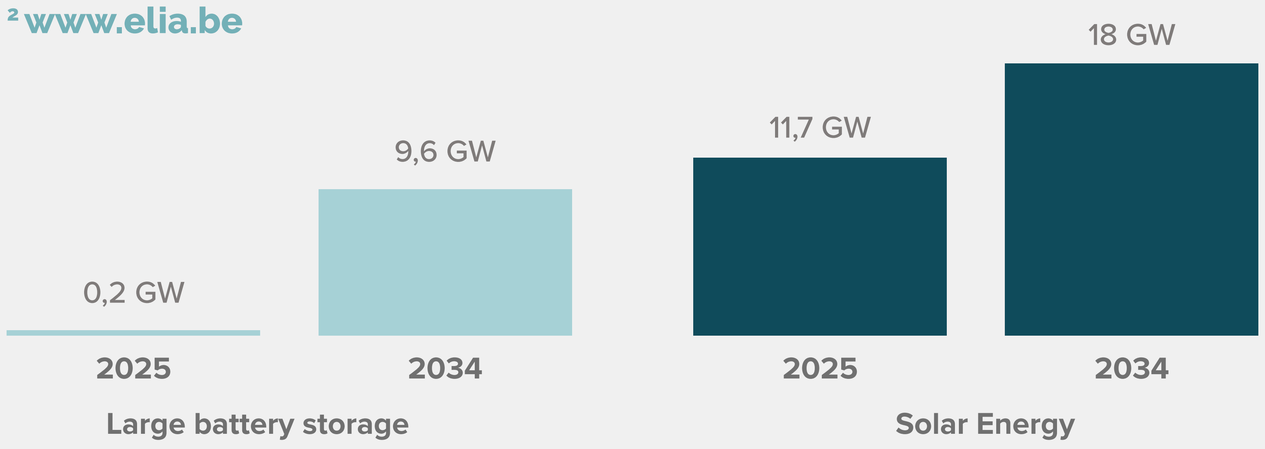
Hrvoje Medarac, PhD
Head of Dutch New Energy Research

[1] Premium Access DNE Dashboard

Battery storage on the rise

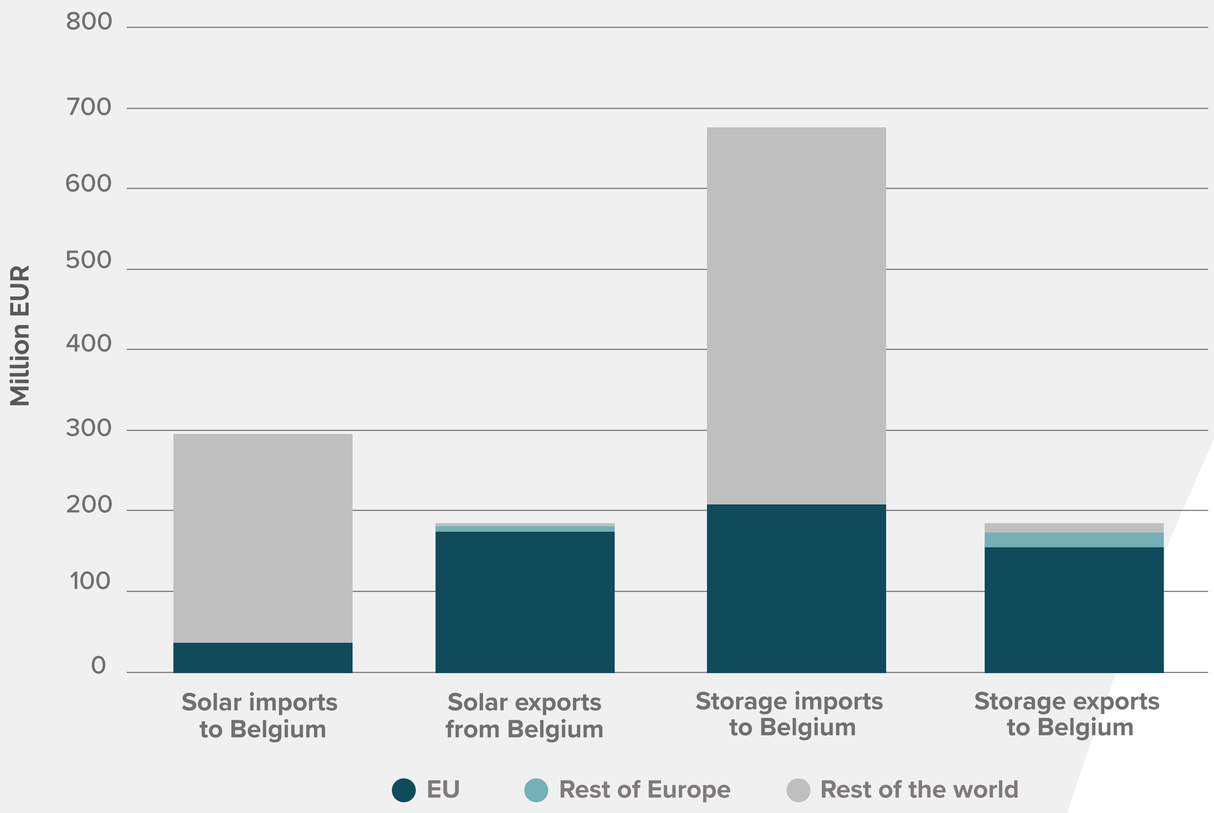
According to Elia[2], Belgium currently has 0.2 GW of installed battery power capacity in large, utility-scale battery systems. Projections indicate that this could reach 9.6 GW by 2034, which would be 50 times higher than the current total capacity. At the same time, the country could have 18 GW of installed solar PV capacity by 2034, which would represent a 50% increase over the country's current installed capacity.

[2] www.elia.be



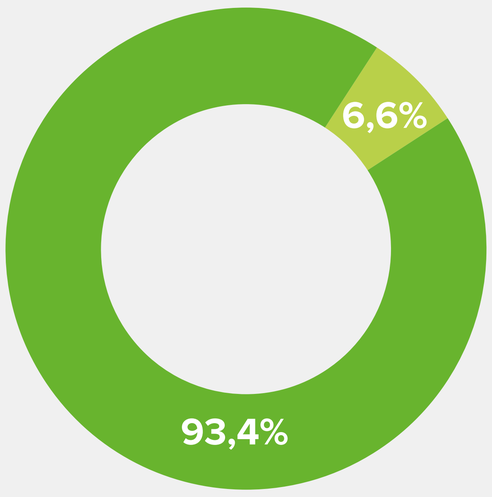
PV & Battery trade: imports and exports

In the first half of 2025, PV panels worth €292 million were imported to Belgium (87% from China). Of this amount, 63% (€183 million) was exported, mainly to the EU. In the same period, the total value of imported Li-Ion batteries, for both electric vehicles and stationary storage, was significantly higher, reaching €680 million. Only 30% of this amount (€202 million) was exported. This means that 70% of imported battery storage remains in Belgium.



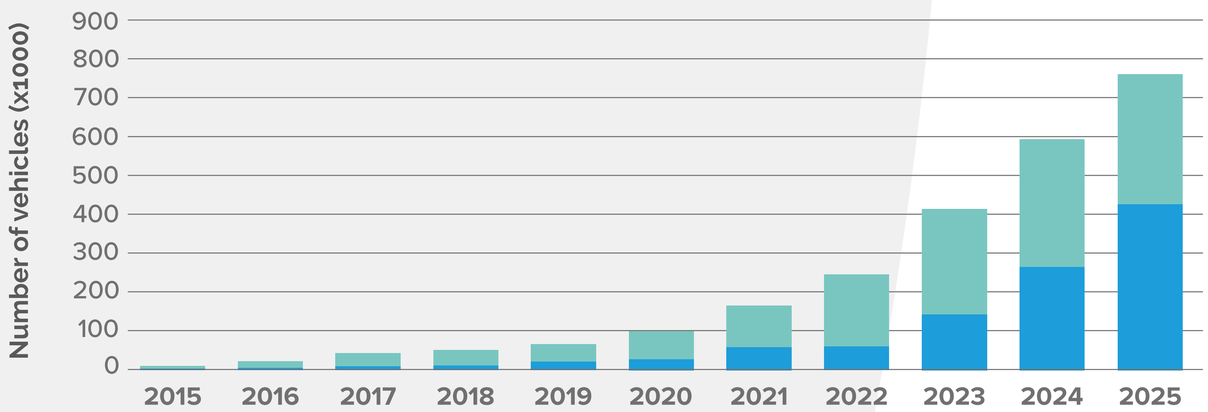
Heat pump growth and potential

In 2024, Belgium reached a total of 344,000 installed heat pumps. This represents only 6.58% of the country's households, indicating a significant market potential for new installations.



EV Growth: charging and fleet expansion

Belgium now has 93,548 EV charging points, according to the European Alternative Fuels Observatory. As of November, there are 770,000 electric vehicles, 54% BEVs and 46% PHEVs. The market has grown about 50% per year over the past five years, but EVs still make up only 10% of the light-duty vehicle fleet in 2024.



Media Partners

Visitor profile 2025

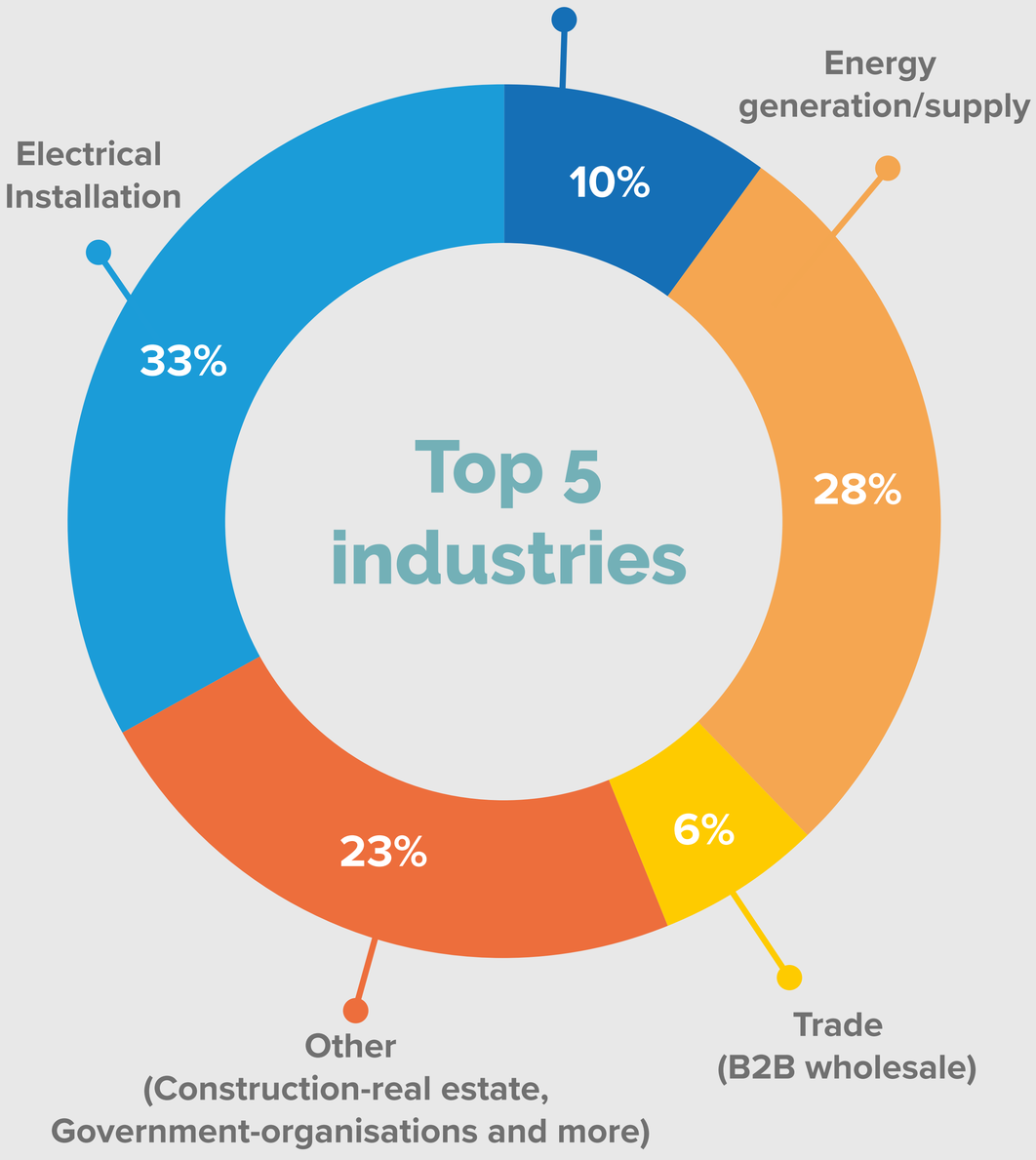
Visitor analysis

Visitor analysis	Total
Total exhibitors	79
Total visitors	4.583

Top 3 countries of origin

Belgium	85%
The Netherlands	10%
France	3%

Top 5 industries



Our visitors are decision makers

Our visitor group primarily consists of key decision-makers within the industry. This includes Managing Directors, Senior Management, Business Owners, employees in various roles, as well as representatives from government institutions and other function groups. This diverse mix makes sure that Sustainable Solutions Kortrijk brings together the people who shape the future of our sector.

Top 5 functions

1. Managing Director	31%
2. Senior Management	23%
3. Other	22%
4. Technical Employee	13%
5. Business Owner	11%

12% 87% 1%

Gender in the industry

Currently, over 85% of professionals in our industry are men. We are actively committed to initiatives that increase visibility and opportunities for women and non-binary individuals in this male-dominated sector. Through inclusive programs, role models, and targeted support, we aim to contribute to a more balanced representation and help make the industry more attractive and accessible to everyone.

Proven success formula

Backed by over a decade of successful renewable energy exhibitions across Europe, we're proud to be at the forefront of driving sustainable innovation.

Scan to see the agenda!

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