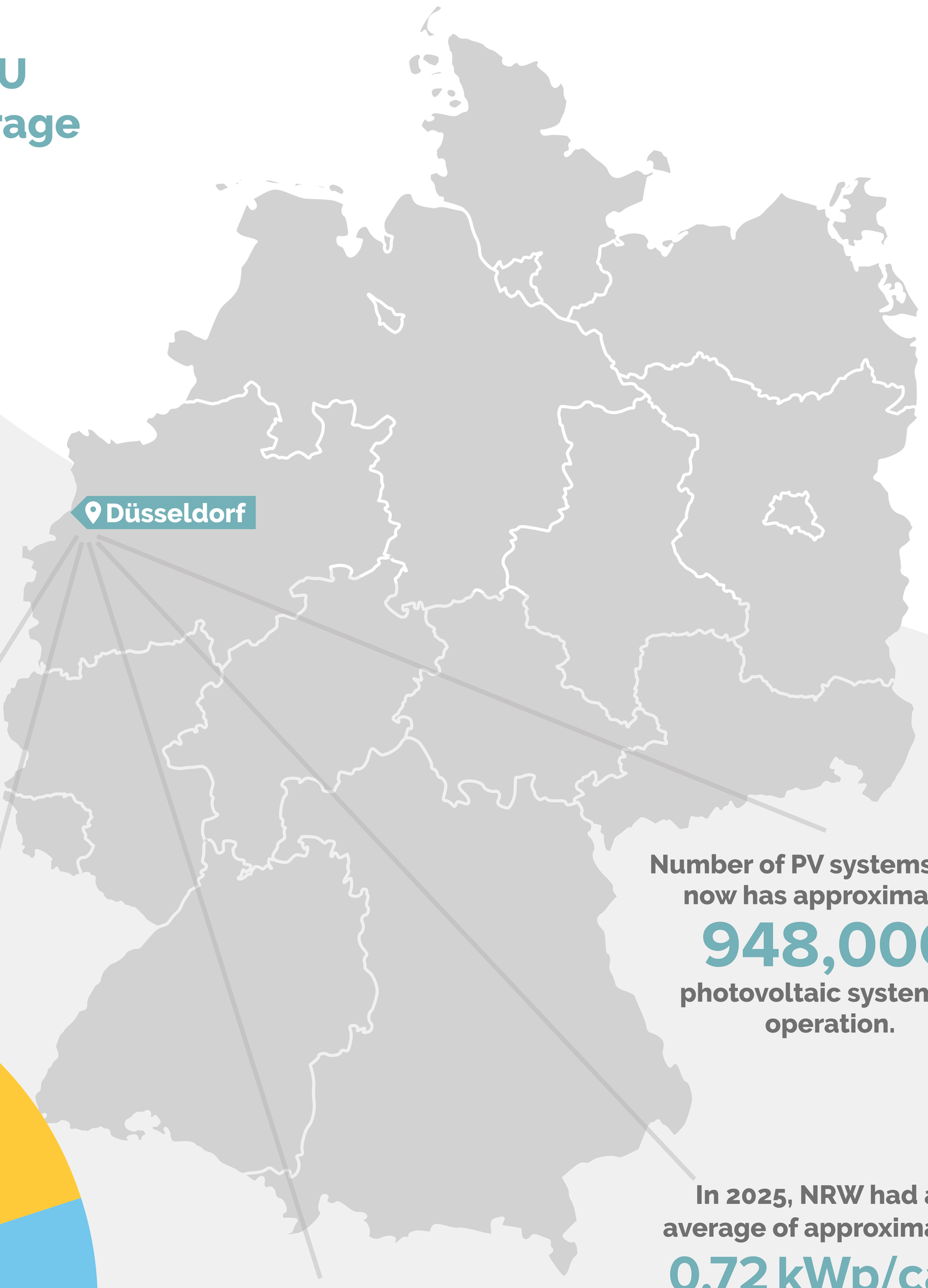
SUSTAINABLE SOLUTIONS DÜSSELDORF

SOLAR · SMART STORAGE · EV CHARGING · GREEN HVAC

Germany is the largest EU market for solar and storage

Germany is at the forefront of the energy transition, with already 115 GW of solar power capacities driving the country toward a cleaner and more sustainable future. This rapid adoption of solar energy has been strengthened by a significant expansion in energy storage, which plays a key role in enhancing grid resilience and stability.

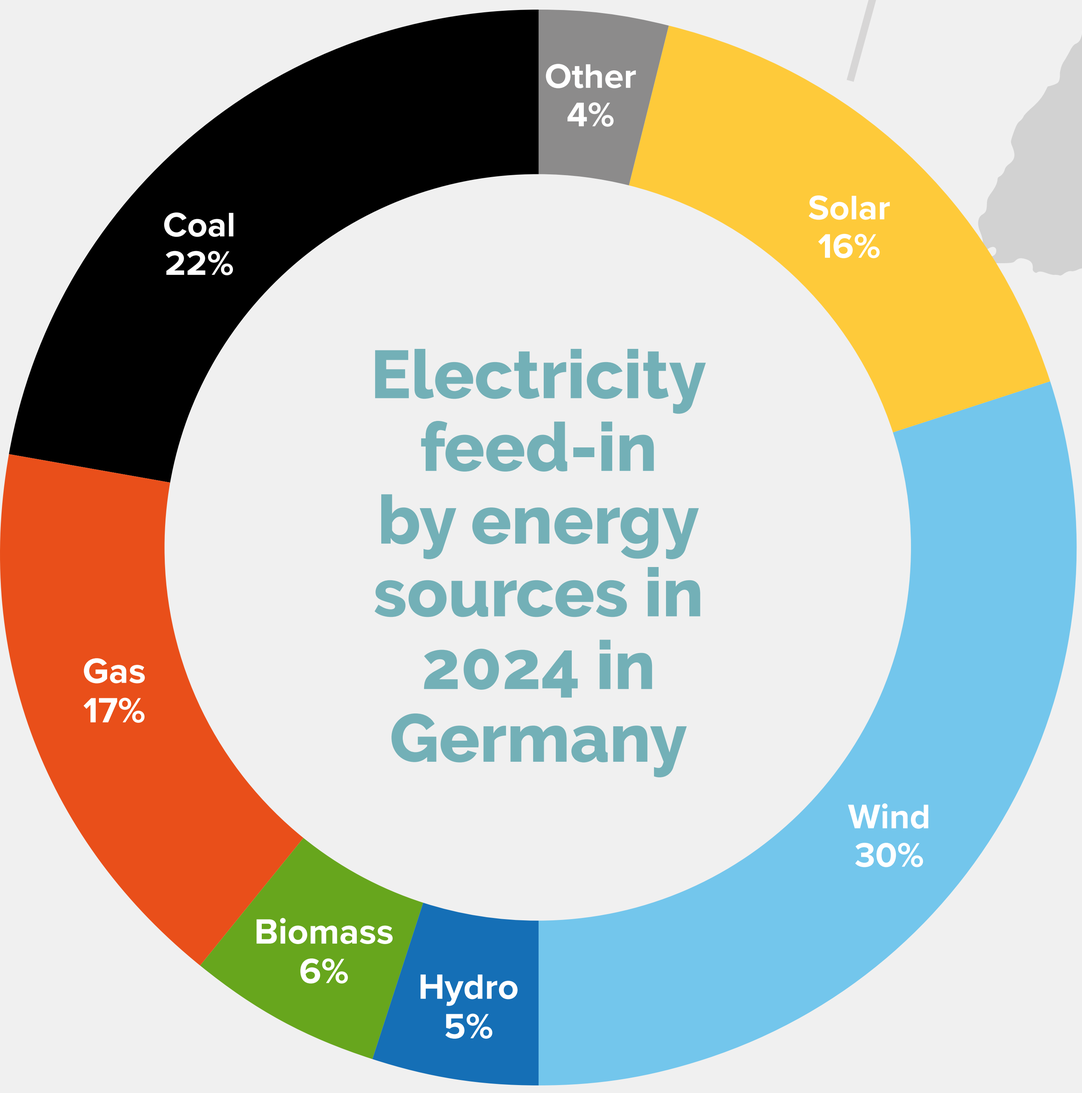
In 2025, Germany added 5.3 GWh of new battery storage capacity, bringing the country's total installed capacity to 23.9 GWh. Residential systems accounted for 19.2 GWh, commercial for 1.2 GWh, and utility-scale for 3.5 GWh. This represents a 13% decrease in new additions compared to 2024. Germany holds 27% of the EU's total battery storage capacity, which is projected to reach 91 GWh in 2025.



As of the 2025 forecast, Germany's total installed solar photovoltaic (PV) capacity is estimated at

115 GWp

in total.



Electricity feed-in by energy sources in 2024 in Germany

Number of PV systems: NRW now has approximately

948,000

photovoltaic systems in operation.

In 2025, NRW had an average of approximately

0.72 kWp/cap

of installed PV capacity.

Between 2020 and 2025, North Rhine-Westphalia (NRW) more than doubled its solar PV capacity to

13.5 GW

with around 92 % of the installed capacity coming from rooftop systems.

North Rhine-Westphalia on track for 2030 solar target

In the first half of 2025, North Rhine-Westphalia ranked as the third-highest German state in new solar installations, after Bavaria and Baden Württemberg, adding approximately 763 MW of new solar PV capacity and commissioning around 76,000 new PV systems. As of the end of June 2025, NRW's cumulative solar capacity stands at roughly 12.9 GW across 948,000 photovoltaic systems, with 92 % installed on rooftops, 6.6 % on ground-mounted sites, and just under 1.5 % as plug-in (balcony) systems. The first-half 2025 additions included approximately 34,000 rooftop systems, 96 ground-mounted systems, and 42,000 plug-in systems, reflecting the state's strong and diversified solar growth. Looking ahead, NRW aims to expand its solar PV capacity to at least 21 GW by 2030, with the potential to reach 27 GW under favourable conditions.

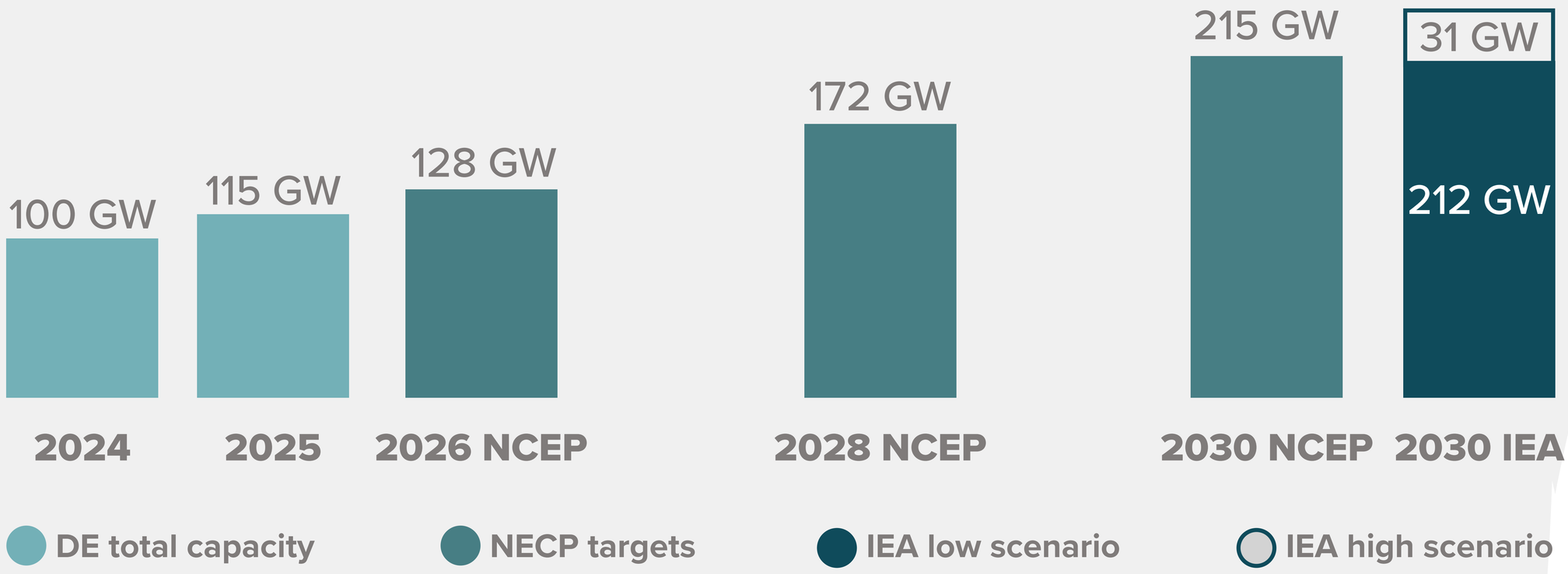
Hrvoje Medarac, PHD
Head of DNE Research

NRW, the battery hub of Germany

Germany now has over 2 million battery storage systems installed, with more than 318,000 added between January and July 2025. The top states for new installations in the first seven months of 2025 are North Rhine-Westphalia (~10,900 systems), Bavaria (~9,950), and Baden-Württemberg (~8,600).
North Rhine-Westphalia is poised to become a future storage hub thanks to its former power plant sites, strong industrial base, and existing infrastructure. By the end of 2025, Germany is expected to have approximately 2.2 million battery storage systems nationwide, providing 16,000 MW of output and around 24,000 MWh of storage capacity.

Germany's race to 215 GW

Germany aims to achieve 215 GW of installed solar photovoltaic capacity by 2030. As of 2025, Germany's installed PV capacity is projected at 115 GW, with 15 GW of new capacity expected to be added in 2025. Solar power already covered 17% of electricity demand in 2024. This expansion is key to Germany reaching its target of having wind and solar power account for 80% of electricity generation by 2030.



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Industry Partners

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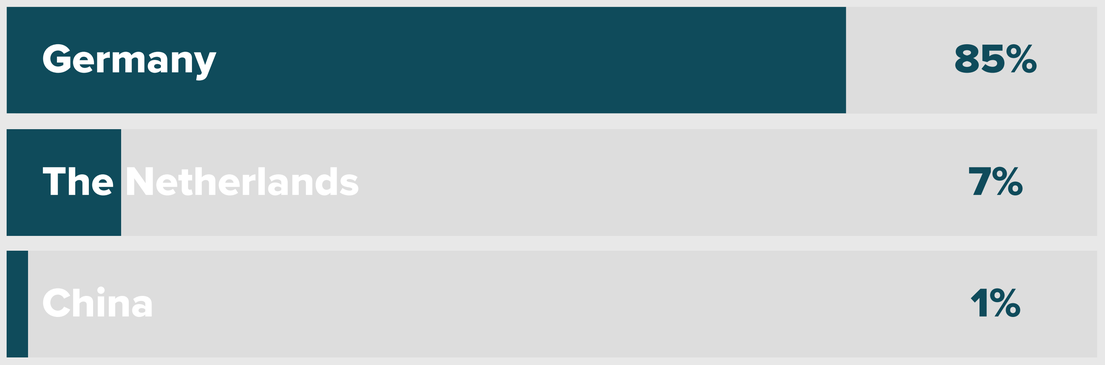
IG Infrarot
einfach. schön. warm.

Visitor profile of 2025

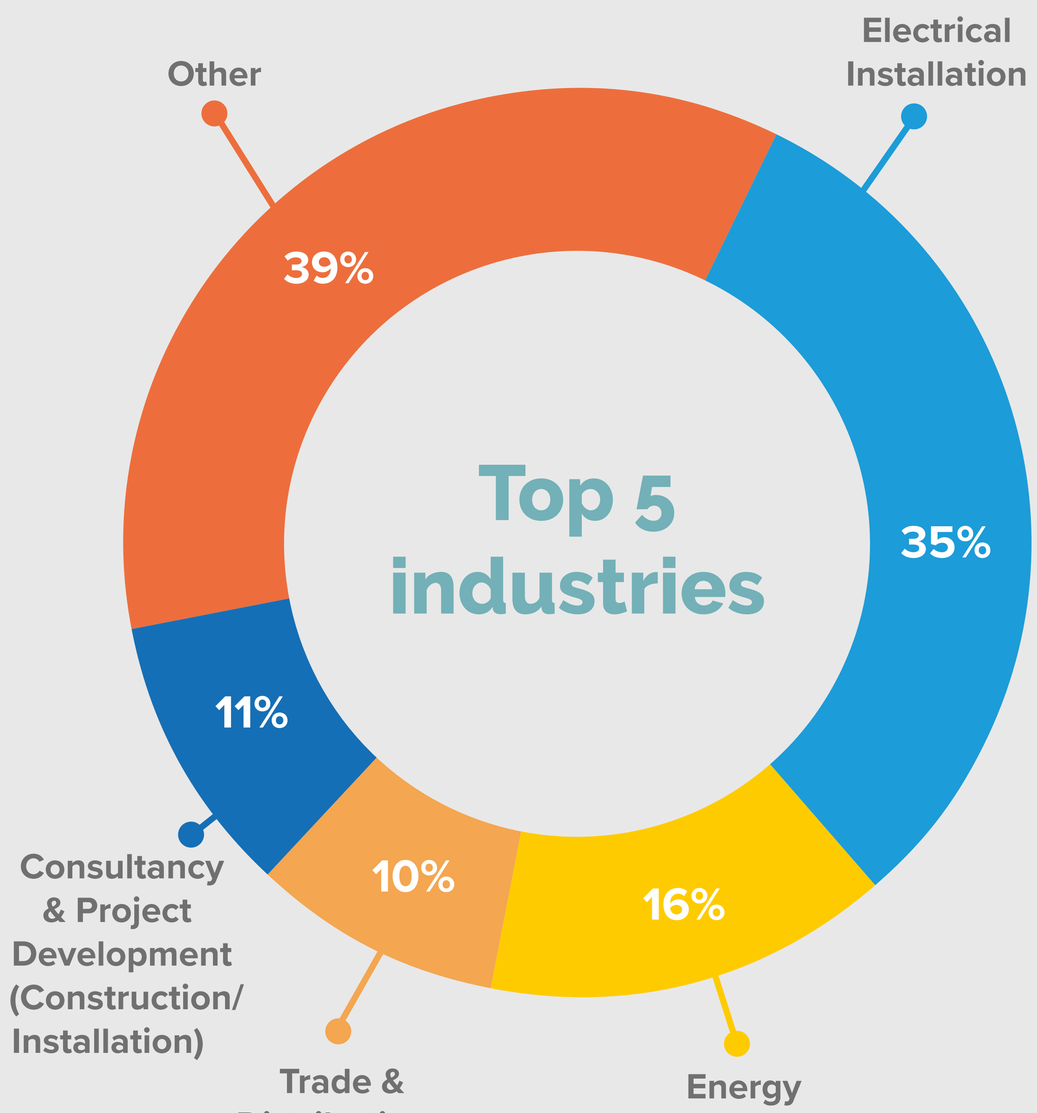
Visitor analysis

Visitor analysis	Total
Total exhibitors	267
Total visitors	13,304

Top 3 countries of origin



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 ensures that Sustainable Solutions Düsseldorf brings together the people who shape the future of our sector.

Top 5 functions

1. Managing Director	21%
2. Senior Management	19%
3. Technical Employee	18%
4. Business Owner	17%
5. Freelance / Independent contractor	5%

Gender in the industry

Currently, over 80% 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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