

Classic investment rule for green electricity: risk diversification through hybridisation

Düsseldorf, 7 January 2026 – Unpredictable weather conditions cause fluctuations in green electricity production, which reduces the security of supply and economic efficiency of the plants. But this is not inevitable. The solution: hybridisation, combining different power sources at a single location. "This is the application of the classic investment rule – risk diversification – to energy generation", comments Patrick Lemcke-Braselmann, Co-CEO of the aream Group, which is considering hybridisation for its plants.

The weather is only reliable to a limited extent. Sometimes the sun is blazing, then the sky is overcast. Sometimes the wind sweeps across the land, then there is calm for weeks on end. This is not only felt by holidaymakers, but also by green electricity producers: yields fluctuate with the weather, which affects the economic viability and efficiency of production and also necessitates fossil fuel back-up systems.

This is why the next stage in the energy transition is now strategically necessary. "We want to use hybridisation to combine two or more energy generation technologies at a single location", says Lemcke-Braselmann. Photovoltaics + wind power or photovoltaics + battery storage are suitable combinations, for example. This increases security of supply and smooths feed-in profiles.

"Of course, reserve power plants are still needed, but to a much lesser extent", says Lemcke-Braselmann. This is because hybridisation can compensate for production losses from individual energy sources, for example when the wind is not blowing but the sun is shining. Peak loads or sudden drops in production are absorbed. The climate also benefits because fossil fuel back-up systems can be replaced by a combination of storage facilities and green electricity systems.

"Hybrid systems are the key to a stable and efficient energy system", says Lemcke-Braselmann. "The intelligent combination of generation and storage can balance out weather-related fluctuations and make more efficient use of grid connections." Shared infrastructure, lower operating costs and faster approval procedures further increase the economic viability of such projects. "This is also worthwhile for municipalities and property owners, who can achieve greater local added value", says Lemcke-Braselmann.

About the aream Group

aream Group, founded in 2005, is an investment and asset manager for institutional investors and industrial clients with a focus on sustainable infrastructure in the renewable energy sector. With its three divisions Fund and Asset Management, Project Development and Operation Management, aream covers the entire value chain for renewable energy investments. With a transaction volume of more than 2.5 billion euros, aream is one of the leading asset managers in this market, and its own portfolio of plants generates around 40 million euros worth of green electricity per year. Since 2008, aream has produced more than one billion kWh of green electricity. As part of the growth strategy, several solar and wind parks are to be realized or acquired in the coming years. Through its own project development alone, aream currently has a long development pipeline with great potential. Further information: www.aream.de.

**Contact**

AREAM Group SE
Kesselstr. 3
D-40221 Düsseldorf
Tel.: +49 (0)211 30 20 60 42
E-Mail: info@aream.de
Web: www.aream.de

Press Contact

news & numbers GmbH
Bodo Scheffels
Tel.: +49 (0)40 80 60 194 34
M: +49 (0)178 / 49 80 733
E-Mail: bodo.scheffels@news-and-numbers.de