



Need for smarter grids

Düsseldorf, 27. August 2025 – The energy transition poses major challenges for Europe’s electricity grids. New solutions and flexible control are more in demand than ever. “Experience from abroad shows that smart grids and modern technology are paving the way for a sustainable energy supply,” says Patrick Lemcke-Brasemann, Co-CEO of aream Group SE.

Europe’s electricity grids are facing a profound change. For one, growing demand from e-mobility, heat pumps, and the increasing electrification of industry is driving up electricity consumption. At the same time, the share of decentralized renewable energy is growing. These developments pose enormous challenges for the infrastructure, which in many cases is unable to cope – partly because many of today’s power pylons and control systems are already around half a century old.

“Expansion of the grids is absolutely essential,” emphasizes Lemcke-Brasemann, “but that alone is not enough.” In addition to increasing capacity, intelligent management of power generation and consumption is essential. Modern technologies such as smart meters and dynamic electricity tariffs help to smooth out consumption peaks and prevent grid overload. Intelligent control systems in particular make it possible to adjust consumption flexibly to the current feed-in and limit expensive grid expansions.

To achieve this, there is no need to reinvent the wheel. Several European countries are proving that it can be done: Italy, by way of example, has introduced smart meters nationwide and established control models that distribute demand more efficiently. Denmark is focusing heavily on storage technology and flexible tariff models, while France is ensuring grid stability by integrating digital solutions. Experience shows that investments in digitalization and flexibility keep costs in control in the long term and increase security of supply.

“Renewable energies and power storage reduce the need for grid expansion, but that alone does not solve all existing challenges,” explains the aream expert. “The energy transition will only succeed if grid providers, politicians, and consumers work together on modernization and show a willingness to be innovative.” The transition is paying off: with flexible grids and smart control systems, electricity will remain affordable and secure supply in the future.

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 four billion kWh of green electricity. As part of the growth strategy, several solar and wind parks and battery storage facilities 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.



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