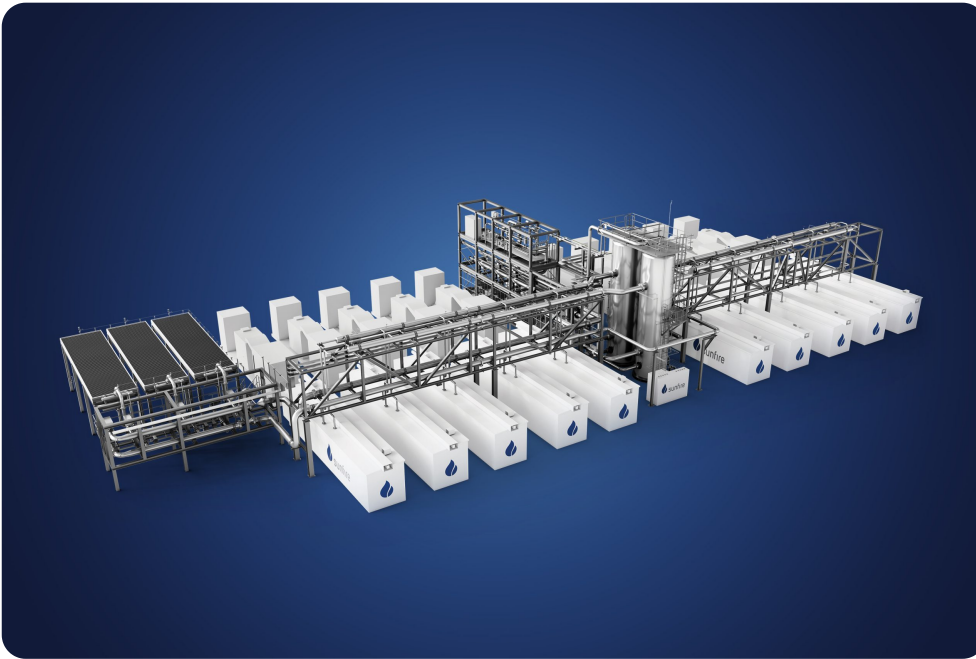
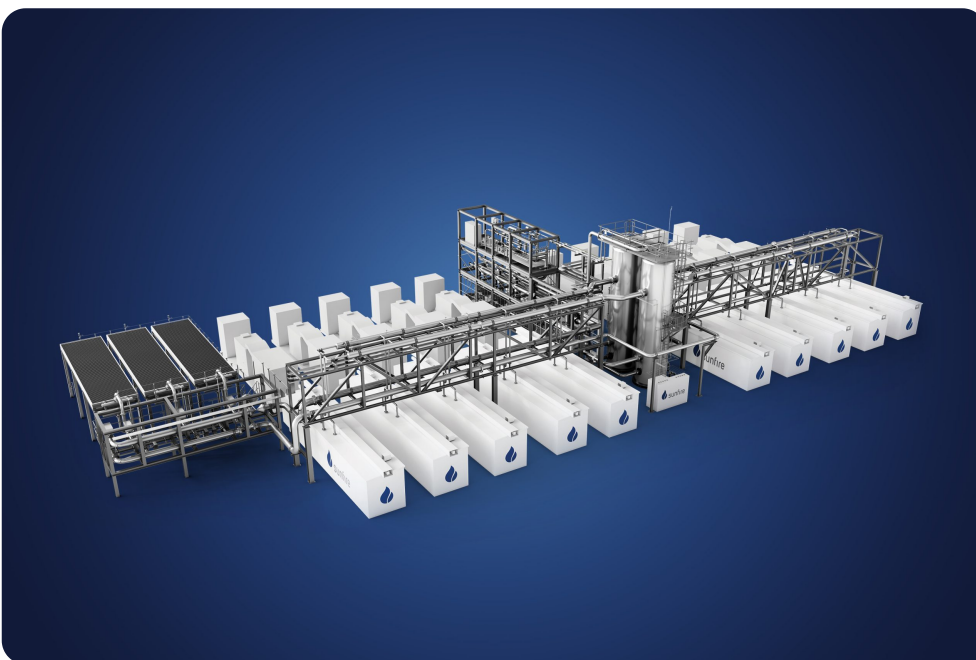


# Sunfire Launches New 50-Megawatt Electrolyzer System for the Next Phase of Industrial Green Hydrogen Scale?up



Sunfire's new 50-MW electrolyzer system significantly reduces total installed costs (TIC) for industrial electrolysis projects and enables simplified scaling based on industrially proven stack technology.



**Dresden, April 14, 2026** – Sunfire has launched [HyLink® Alkaline 23](#), a new outdoor pressurized alkaline electrolyzer system. The 50-megawatt electrolyzer module is designed for the implementation of triple-digit megawatt projects and reduces total installed costs (TIC) on the customer side by up to 50 percent.

### **Proven Pressurized Alkaline Stack at the Core of the System**

At the core of HyLink® Alkaline 23 is Sunfire's proven second-generation 30-bar(g) pressurized alkaline stack. The higher operating pressure significantly reduces downstream hydrogen compression requirements. The stack technology is already in operation in industrial plants across Europe, where it has demonstrated reliable performance in the production of green hydrogen.

### **Modular 50-MW System Design for Large-Scale Projects**

Building on experience gained from ongoing industrial projects in the double-digit megawatt range, Sunfire has specifically further developed its existing 10-MW pressurized alkaline module for deployment in triple-digit megawatt projects. The new 50 MW-module combines five times the installed capacity of the previous solution with a design fully optimized for outdoor deployment.

As part of the new system design, key plant components have been centralized, additional components such as air cooling have been integrated as standard, and the level of prefabrication has been significantly increased. At the same time, system interfaces have been optimized. This substantially simplifies installation and commissioning while delivering significant cost reductions for the overall green hydrogen plant (TIC).

In a 100-MW project scenario, the number of required electrolyzer modules is reduced from ten to two. The construction of a dedicated electrolyzer building is no longer necessary.

**Christian von Olshausen, CTO of Sunfire**, emphasizes: *“With the new system, we are applying five key levers to improve project economics: First, we increase module capacity from 10 to 50 megawatts, significantly reducing material and component requirements. Second, the solution is fully designed for outdoor operation, eliminating buildings and building-related infrastructure as major cost drivers. Third, key interfaces are already integrated into the system, substantially reducing complexity. Fourth, a high degree of prefabrication shortens installation time and minimizes on-site effort. Fifth, the system is based on our proven 30-bar stack technology with validated performance. Taken together, these five improvements reduce total installed costs for our customers by up to 50 percent.”*

### **Designed for the Next Phase of Industrial Market Scale-up**

With HyLink® Alkaline 23, Sunfire directly addresses the current requirements of large-scale hydrogen projects in energy-intensive industries such as refining, chemicals, and ammonia production, where hydrogen supply is being built up on an industrial scale with a lower carbon footprint.

**Nils Aldag, CEO of Sunfire**, underlines: *“We have actively shaped this market and, over the past 16 years, implemented projects ranging from several hundred kilowatts to low megawatt capacities and up to full industrial scale. Throughout this process, we have worked closely with our customers and developed a clear understanding of what matters in real-world applications. Accordingly, our current 100-MW projects are repeat orders from existing customers.”*

## About Sunfire

Sunfire is a global leader in the manufacture of industrial electrolysers based on pressurized alkali (AEL) and solid oxide electrolysis (SOEC) technologies. With its electrolysis solutions, Sunfire addresses one of the key challenges facing today's energy system: the provision of green hydrogen as climate-neutral substitutes for fossil fuels. Sunfire's innovative and proven electrolysis technology enables the transformation of carbon-intensive industries that currently rely on fossil fuels such as oil, gas, or coal. The company employs more than 700 people in Germany.

For more information, visit [www.sunfire.de](http://www.sunfire.de)

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