



# Hydrogenics Europe NV: Powering Green Hydrogen Revolution

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### Why Green Hydrogen Needs Better Tech Today

You know what's surprising? Even with 80% cost reductions in solar panels since 2010, green hydrogen still accounts for less than 1% of global hydrogen production. The culprit? Outdated electrolyzer technology struggling with intermittent renewable energy inputs.

Hydrogenics Europe NV, now part of Cummins since 2019, has been tackling this exact challenge. Their proton exchange membrane (PEM) electrolyzers achieve 74% efficiency compared to the industry average of 60-65% - a difference that could power 50,000 extra homes annually per 100MW installation.

### The Intermittency Conundrum

Last month's blackout in Bavaria tells the story - 12 hours of windless conditions crashed a hydrogen pilot plant using conventional alkaline electrolyzers. PEM technology's rapid response (

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