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PepsiCo broadens global low-carbon fertilizer network through envision energy agreement

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The APAC agreement builds on PepsiCo's growing portfolio of low-carbon fertilizer partnerships as the company targets covering nearly half of its global fertilizer demand with certified low-carbon alternatives by 2030

Envision Energy has expanded its role in the global low-carbon agriculture transition by delivering low-carbon ammonia environmental attribute certificates (EACs) to PepsiCo for use across its Asia-Pacific operations, marking another step in the food company's strategy to reduce emissions embedded within its agricultural supply chain.

The agreement enables PepsiCo to account for lower-carbon ammonia-based fertilizers through a verified certificate system that confirms an equivalent volume of ammonia has been produced using lower-emission methods. Rather than requiring the physical delivery of green ammonia to every farming location, the EAC mechanism allows companies to recognize environmental benefits while supporting the scale-up of low-carbon fertilizer production.

The transaction extends PepsiCo's expanding network of sustainable fertilizer partnerships beyond North America and Europe into the Asia-Pacific region, reflecting growing corporate efforts to tackle Scope 3 emissions, which account for the majority of food companies' overall carbon footprints.

The latest agreement follows several strategic fertilizer partnerships announced by PepsiCo during 2026. Earlier this year, the company secured certified low-carbon urea ammonium nitrate (UAN) supplies through CF Industries for its U.S. potato supply chain while also signing long-term low-carbon ammonia agreements with TalusAg, Fertiberia, and Yara to support operations across Europe and Latin America. Collectively, those agreements are expected to cover approximately 50 per cent of PepsiCo's global fertilizer demand by 2030.

For Envision Energy, the partnership reinforces its ambitions beyond renewable power generation. Best known as one of the world's largest wind turbine manufacturers, the China-based company has rapidly expanded its green hydrogen and green ammonia portfolio through its Envision Green Technology business, leveraging renewable energy assets across Asia and

Europe to support industrial decarbonization.

The collaboration also highlights the growing role of environmental attribute certificates in accelerating fertilizer decarbonization, particularly in markets where physical supplies of low-carbon ammonia remain limited. By separating the environmental value of low-carbon production from physical product delivery, EACs offer food manufacturers a flexible pathway to reduce emissions while supporting investment in emerging green ammonia infrastructure.

As global food companies face increasing pressure to lower agricultural emissions without compromising food production, market-based mechanisms such as EACs are emerging as an important bridge between sustainability commitments and the gradual expansion of low-carbon fertilizer supply chains. The agreement underscores a broader shift across the agrifood sector, where fertilizer sourcing is becoming a strategic component of corporate climate strategies, alongside regenerative agriculture, renewable energy and sustainable procurement initiatives.