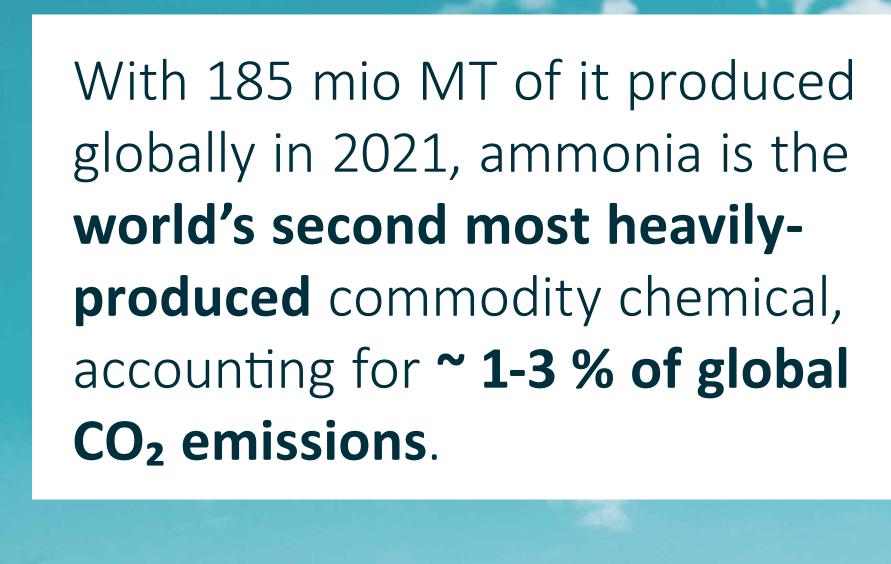
Green Ammonia

Unlocking its potential to become H₂'s energy transition partner



$1t \text{ of } NH_3 = 2t CO_2$

Conventional ammonia production - An emissions nightmare



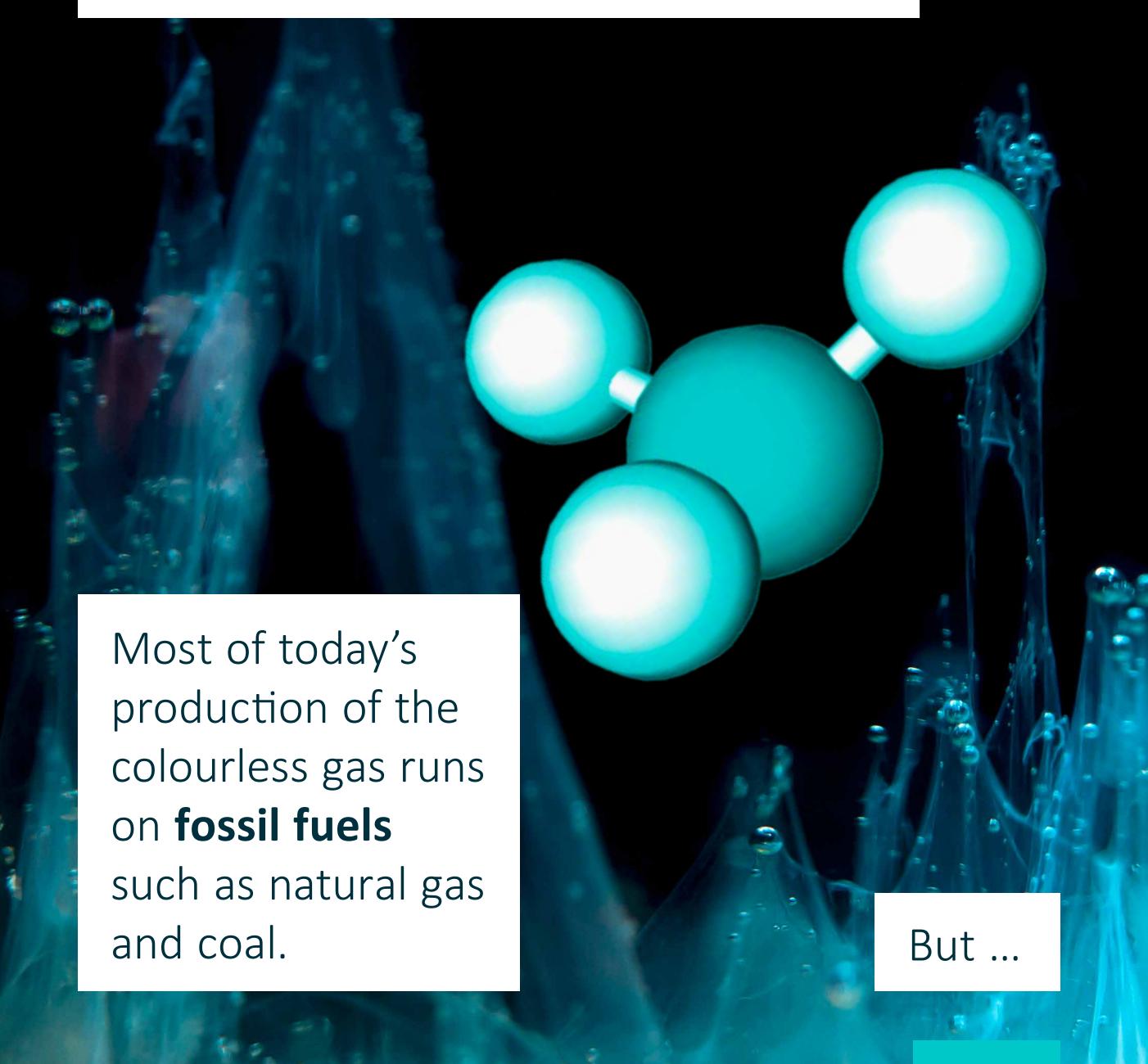
Unfortunately ...

Sources: Statista, Production of ammonia worldwide in 2021, by region Tokyo Institute of Technology, Fueling the world sustainably: Synthesizing ammonia using less energy

The Royal Society, Ammonia: zero-carbon fertiliser, fuel and energy store



Green Ammonia = NH₃



Sources: Statista, Production of ammonia worldwide in 2021, by region Tokyo Institute of Technology, Fueling the world sustainably: Synthesizing ammonia using less energy

The Royal Society, Ammonia: zero-carbon fertiliser, fuel and energy store

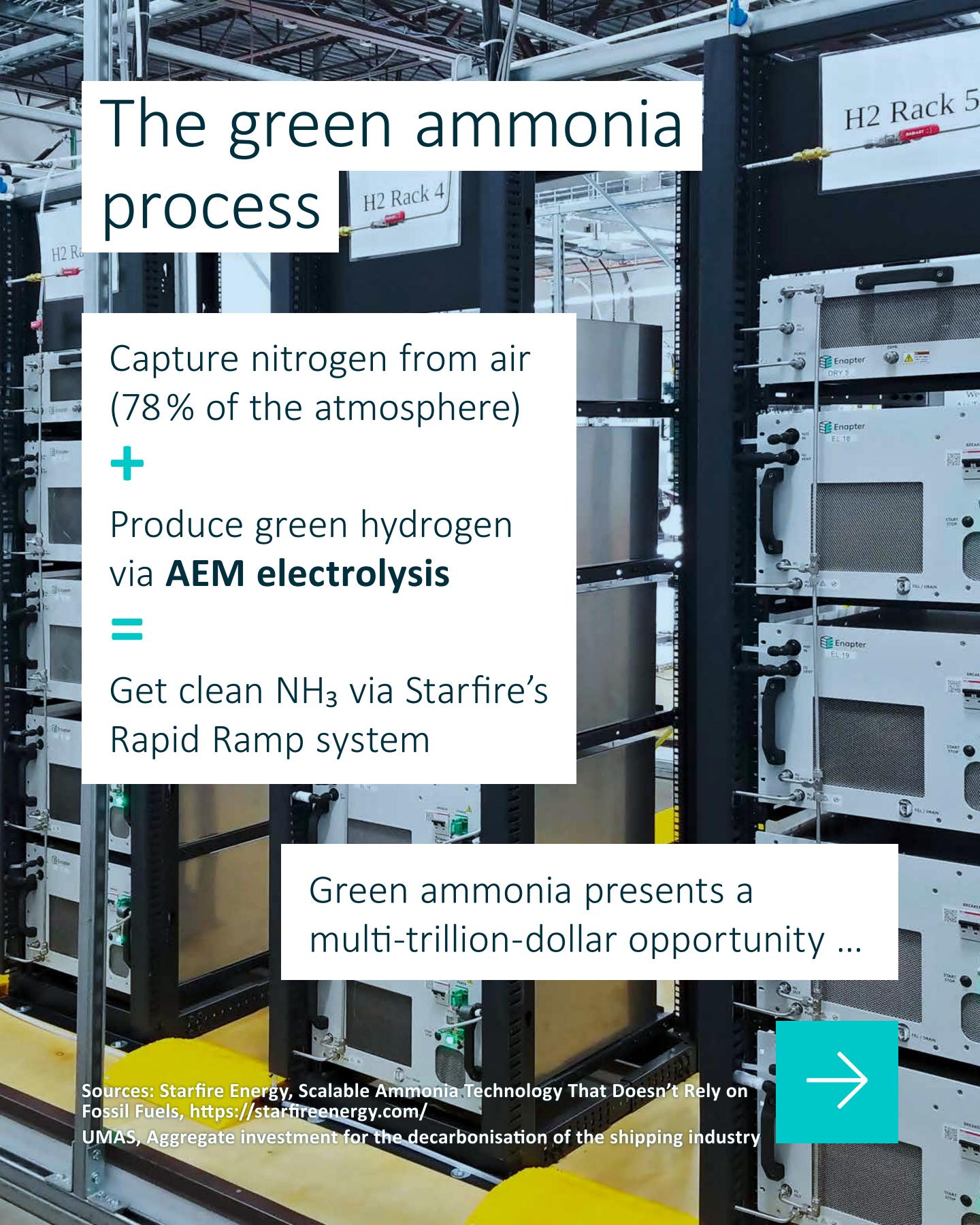




Luckily, companies like our partner **Starfire Energy** already scale the production of green ammonia with only three clean ingredients:

- Fresh air
- **■** Water
- Renewable electricity

Here's how it works:





Demand for clean maritime fuel alone opens up a massive market:

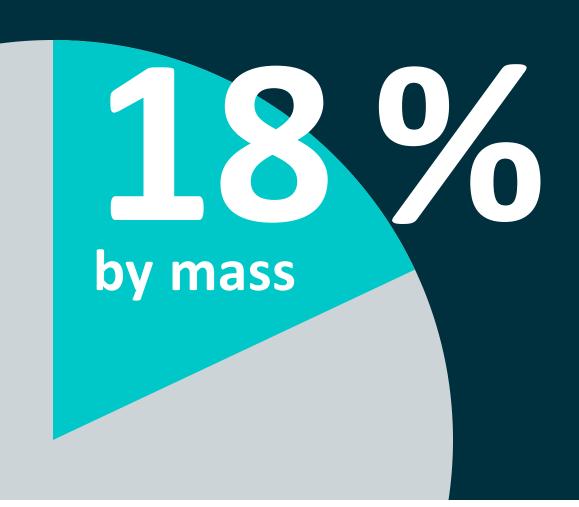
- = 670 946 mio t/year
- ~ 5 trillion USD market

But why the buzz?

Source: UMAS, Aggregate investment for the decarbonisation of the shipping industry



Green ammonia is an incredibly hydrogen-dense material

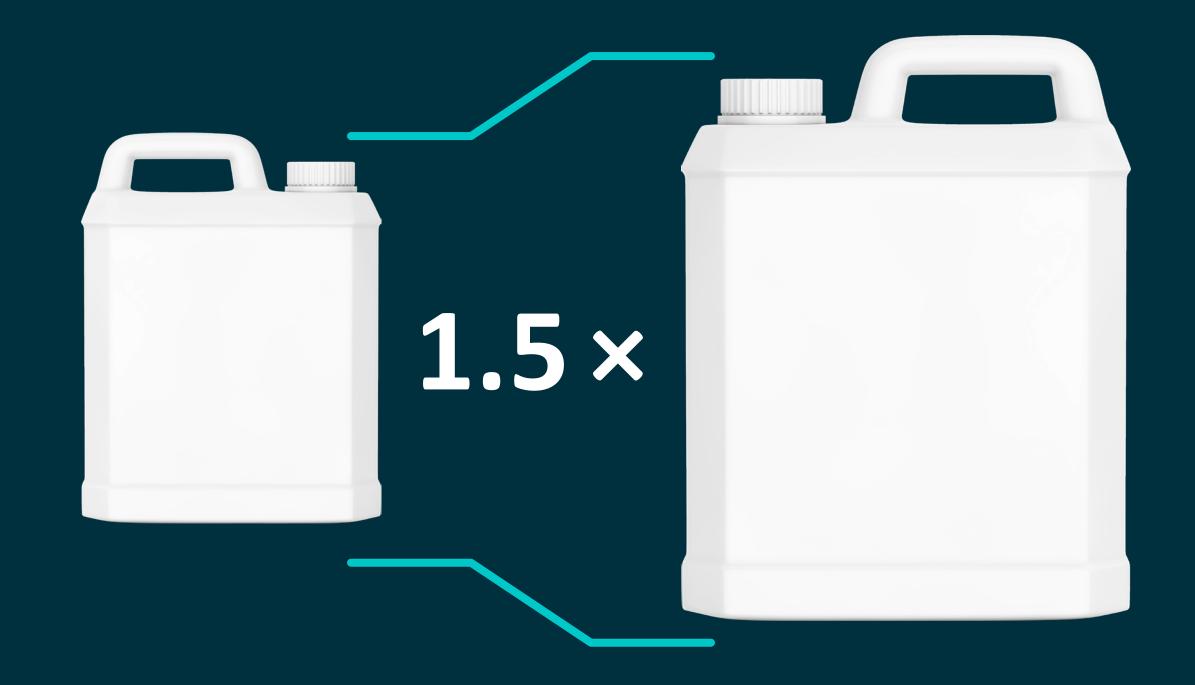


It's one of the most energy-dense substances we can create from renewable electricity.

Fun fact ...



Ammonia's hydrogen boost



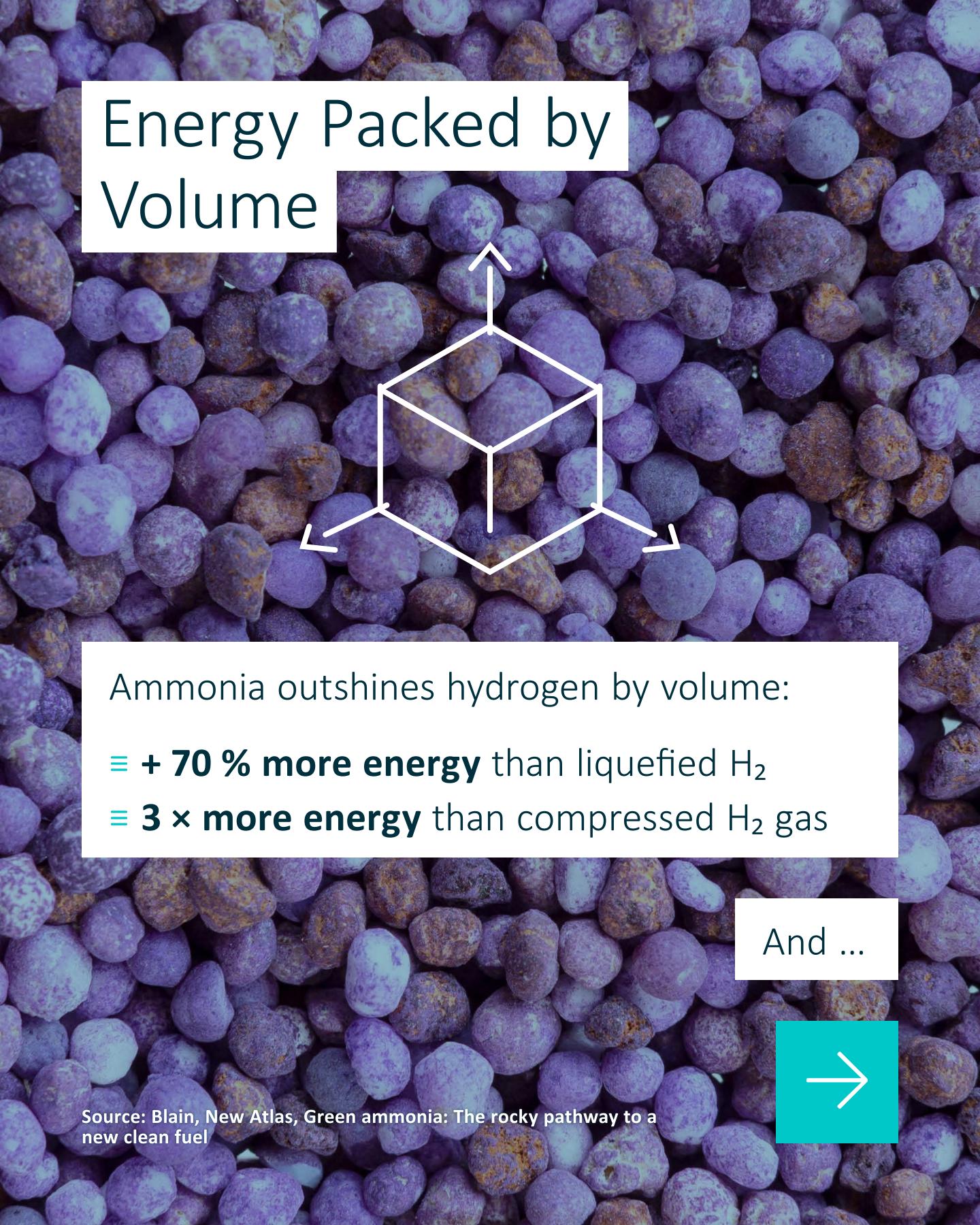
There's **1.5** × more hydrogen in a gallon of ammonia compared to a gallon of only hydrogen.

Plus ...



Source: Blain, New Atlas, Green ammonia: The rocky pathway to a new clean fuel





Energy Boost by Weight

> 20 × more specific energy than today's lithium batteries

That's why it's ...

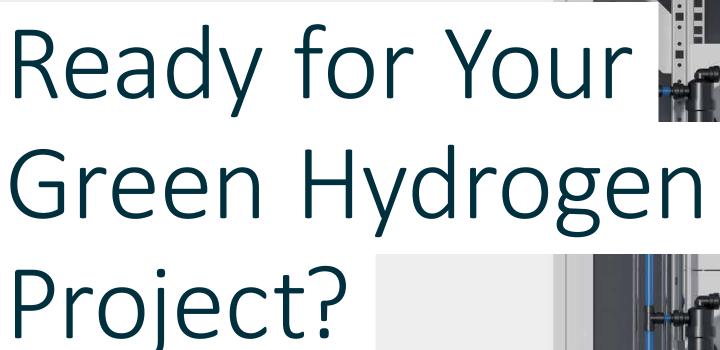


Source: Blain, New Atlas, Green ammonia: The rocky pathway to a new clean fuel









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