



# Estonia powerup technology

What does Estonia's powerup do?

Estonia's PowerUp makes hydrogen mainstream, as well as putting it in telecom towers and interplanetary missions. In the ever-evolving landscape of technological innovation, one Estonian company is taking on the energy transition issues at a scale.

Is powerup bringing hydrogen cabinets to Estonia?

Not coincidentally, this is also a favour to the planet. To this end, PowerUP is teaming with energy company Alexela to increase the presence of hydrogen cabinets across Estonia, with the first-ever of such kind already placed on the map.

Is PowerUP a telecommunications company?

In 2022, the company started a collaboration with one of Estonia's leading telecommunications companies, Telia, aimed to test the capabilities of PowerUp's solution in real-world conditions. A cell tower's backup energy is normally provided by diesel generators, whereas PowerUp produces hydrogen generators. The two-part pilot has been successful.

What is powerup doing with the European Space Agency?

One of the most notable collaborations in PowerUp's portfolio is with the European Space Agency. This partnership focuses on developing fuel cells for the Moon and Mars missions. PowerUp is working on a lightweight fuel cell stack targeting an impressive 1 kW/kg power-to-weight ratio, a significant milestone in space technology.

Is Estonia a good place to buy a hydrogen battery?

Estonia, the country with the world-first nationwide Hydrogen Valley, is the perfect place for that. With the global rise in demand for large battery banks, PowerUp envisions a greener solution for consumers. Their hydrogen-based energy systems offer a smaller, lighter, and more environmentally friendly alternative to traditional battery banks.

PowerUP's smart generators are a plug-and-play solution requiring just two inputs: Hydrogen, from a dedicated tank such as those already available on the market; Oxygen, from the surrounding air available en masse on our planet.

What have been the biggest challenges on the journey of PowerUp Energy Technologies? What have you learned during this process? As mentioned above, finding money is the most difficult challenge, but there is also a huge shortage of labor in Estonia. These are the two biggest challenges.

PowerUp is working on a lightweight fuel cell stack targeting an impressive 1 kW/kg power-to-weight ratio, a significant milestone in space technology. These fuel cells will serve as alternative energy sources when solar



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power or batteries are insufficient, allowing rovers to operate seamlessly during missions.

Dr. Ivar Kruusenberg, the Founder and CEO of PowerUP Energy Technologies, has big ambitions for hydrogen cabinets. "We're planning to open more cabinets not only in Estonia, but in Finland, Sweden, France and ...

Estonia is leading the charge for digitalisation, and startups continue to enjoy the advantages of basing themselves there: the ease of founding a company in Estonia, the country's small size making it a fertile ...

Cutting-edge technology allows us to generate power from simply combining hydrogen and oxygen. So why shouldn't the average consumer, on a boat or in a camper van, have easier access to such green energy too? Estonian cleantech startup PowerUP Energy Technologies is seeking to do just that."

Estonian deeptech startup PowerUP Energy Technologies has initiated a groundbreaking shift in its strategic focus, moving from portable hydrogen fuel cell generators to a revolutionary hybrid solution.

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5 ???&#0183; The scheme also includes a limit on the annual volume of electricity supported, set at a maximum of 2 terawatt hours (TWh) per year. The EC concluded that the Estonian offshore ...

In the clean technology sector, PowerUP is definitely the new kid on the block, while Skeleton Technologies is a more entrenched player. Founded in 2009, this provider of ultracapacitors, ...

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