



Brazil acceleron energy

Will acelen invest 12 billion reais to make 'green' fuel in Brazil?

Mubadala Capital backed-Acelen will invest 12 billion reais (\$2.44 billion) over 10 years to make 'green' diesel and jet fuel in Brazil, starting in 2026, in a move that will place the company among global leaders in this segment, executives told Reuters.

What is Accelaron fusion?

Accelaron Fusion is the latest startup to take a swing at this challenging nuclear-energy technology, banking on a novel approach that uses beams of heavy subatomic particles called muons to achieve fusion at much lower temperatures.

Why did Accelaron close a \$24 million funding round?

Today, Accelaron announced it has closed a US \$24 million funding round to help develop prototypes of key reactor components and has now completed 100 hours of continuous fusion at its test facility at the Paul Scherrer Institute in Villigen, Switzerland. The experiments are aimed at gathering data rather than producing useful amounts of energy.

How does Ara Knaian/Accelaron fusion work?

Ara Knaian/Accelaron Fusion The resulting muons can help kick-start a fusion reaction by being directed at a mixture of the hydrogen isotopes deuterium and tritium--popular fuel for fusion reactors.

What does acelen do?

We are responsible for supplying over half of Northeastern Brazil, a region with the highest estimated economic and population growth over the coming years. Acelen was created by Mubadala Capital, the asset management subsidiary of Mubadala Investment Company, a leading global sovereign investor.

How hot can Accelaron fusion be?

Using this approach, Accelaron's plant could operate below 1,000 °C-- not exactly "cold" fusion, but not nearly as hot as other strategies such as magnetic confinement or inertial confinement. These other fusion approaches require temperatures in the millions of degrees to heat fuel until it becomes a plasma.

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Brazil: Energy intensity: how much energy does it use per unit of GDP? Click to open interactive version.



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Energy is a large contributor to CO₂ - the burning of fossil fuels accounts for around three-quarters of global greenhouse gas emissions. So, reducing energy consumption can inevitably help to reduce emissions.

In under three years, Acelen has revolutionized Brazil's energy sector by transforming the Mataripe Refinery into a modern, efficient, and environmentally responsible ...

Accelaron is developing an intense, high-efficiency muon source to produce beams of muons using significantly less energy than current facilities, and a high-density fusion cell to allow each of these muons to catalyze larger numbers of fusion reactions.

6 ???· The experiments are aimed at gathering data rather than producing useful amounts of energy. Accelaron Fusion is a pioneer in muon-catalyzed fusion technology. The company spun out of NK Labs in 2023 after it was awarded two ARPA-E grants to research muon-catalyzed fusion and develop a more efficient muon source. Since then, the company has ...

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This plasma must then be contained with powerful magnets or lasers, which are complex and energy-intensive. Accelaron's technology bypasses these requirements by operating below 1,000°C. This ...

Brazil currently has two reactors - Angra 1 and Angra 2 - which generate about 3% of the country's electricity. Work on the Angra 3 project - to feature a Siemens/KWU 1405 MW pressurised water reactor - began in 1984 but was suspended two years later, before construction began. The scheme was resurrected in 2006, with first concrete in 2010.

Accelaron Fusion General Information Description. Provider of clean energy systems intended to power cities, charge electric cars, and fuel rockets. The company's platform utilizes muon-catalyzed fusion technology to generate limitless energy, providing industries with clean energy and addressing the engineering challenges associated with bringing fusion power to the grid.

We are an important player in the energy sector, built on the Mataripe Refinery's 70-year legacy of operating assets with excellence, safety, productivity and sustainability in the state of Bahia. We are responsible for supplying over half of Northeastern Brazil, a region with the highest estimated economic and population growth over the ...

Prompted by these advancements, Knaian and Accelaron cofounder Seth Newburg applied for a \$2 million Advanced Research Projects Agency-Energy grant to investigate ways to boost the efficiency of ...

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Clea Kolster. The funding will fuel Accelaron's efforts to advance its unique approach to clean, safe, and abundant energy. Traditional fusion machines require extreme temperatures of 100 million ...

Fusion startups have been on a fundraising tear lately, and a young startup, Accelaron Fusion, is joining the pack, having raised \$15 million of a targeted \$23.7 million round, according to an SEC filing.. The fusion sector recently has been showered with interest from investors, who no doubt have been encouraged by the breakthrough experiment at the National Ignition Facility two ...

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