Copenhagen manufacturing energy storage

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Copenhagen Atomics has raised over 25 million euros and has developed full scale reactor hardware for molten salt thorium nuclear reactors. Almost a decade ago Copenhagen Atomics was founded based on a dream dream of a world powered by scaleable and green energy more affordable than coal; a thorium molten salt breeder reactor. They are now building full-scale prototype reactor test platforms, producing ton-scale highly purified salt and much more.

Copenhagen Atomics is developing a thorium based molten salt reactor with the same footprint as a 40 foot shipping container, which delivers 100 MW thermal energy per unit and is expected to reach an electricity price (LCoE) below $20/MWh in a mass manufacturing scenario.

The Waste Burner is expected to be online in 2028, and will run on a combination of thorium and used nuclear fuel reducing the storage period of the existing nuclear waste from 100,000 to 300 years. The 100 MWth thorium based MSR Waste Burner will deliver abundant energy in a cheaper, safer and cleaner manner.

They are in the process of building a non-fission prototype for the 1 MWth demo reactor, which will validate the reactor design using a non-nuclear fuel salt. They expect to have an operational 1 MWth demo reactor ready by 2025.

Today, electricity only accounts for approx. 20% of the world’s combined energy consumption, whereas energy for industrial use, fuel for cars, ships, planes and heating your home make up for the remaining 80%.

In the few places where diesel is being phased out, ammonia will become an ever-increasing part of fuel consumption as this can be used for the mining, transportation, and shipping industries, to name a few.

This project combines the knowledge of the old industry-leading companies Topsoe, Alfa Laval, Aalborg CSP, Pupuk Kaltim and Pertamina New & Renewable Energy and our molten salt reactor technology.

Brian Wang is a Futurist Thought Leader and a popular Science blogger with 1 million readers per month. His blog Nextbigfuture is ranked #1 Science News Blog. It covers many disruptive technology and trends including Space, Robotics, Artificial Intelligence, Medicine, Anti-aging Biotechnology, and Nanotechnology.

Known for identifying cutting edge technologies, he is currently a Co-Founder of a startup and fundraiser for high potential early-stage companies. He is the Head of Research for Allocations for deep technology investments and an Angel Investor at Space Angels.

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A frequent speaker at corporations, he has been a TEDx speaker, a Singularity University speaker and guest at numerous interviews for radio and podcasts. He is open to public speaking and advising engagements.

There are a number of significant basic technical and economic hurdles facing the proposed reactor. Practical engineering considerations do not particularly favor the claims being made.

Moving heavy water through a molten salt reactor is inherently risky from a technical and reactor safety standpoint. Water and molten salts do poorly when mixed. Throw in a nuclear reactor and the whole device is really unsettling.

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Web: https://hollanddutchtours.nl/contact-us/
Email: energystorage2000@gmail.com
WhatsApp: 8613816583346