



Batteries of the Future

REPORT

“The battery that is fire and explosion proof, outlasts lithium-ion batteries and uses common salt”

There are some real downsides to today’s lithium-ion batteries - stumbling blocks that are the focus of international discussion. The batteries can overheat through thermal runaway, which can result in devastating fires and explosions. They operate best in a fairly narrow temperature range and the lifespan of lithium-ion batteries is limited to between 7 and 10 years. On top of that, lithium-ion battery manufacturers are at the mercy of both supply and pricing of a range of critical metals.

But an alternative does exist. It is fire and explosion-proof, has a life span of more than 15 years, and operates in extreme cold and desert climates. It’s a battery technology that is lithium-free, cobalt-free, graphite-free, and copper-free, limiting exposure to critical metal price rises and supply chain concerns. It uses common table salt. Some believe that Sodium Alumina Solid State Batteries are the grid batteries of the Future.

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Episode 1 (3 mins)
Sodium Alumina Solid State (SAS) Batteries

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Episode 2 (3 mins)
How SAS Batteries Work?

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Episode 3 (3 mins)
Fraunhofer IKTS Pilot Plant

