

Energy storage element live equipment



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[Element Resources, green hydrogen, Lancaster Clean](#)

According to Steve Meheen, CEO of Element Resources, the LCEC will operate fully off-grid, using on-site solar power and long-duration battery

[Largest hydrogen plant in North America slated for](#)

Element Resources will use solar power and battery storage to ensure 24/7 production.



[MIT Energy Initiative conference spotlights research](#)

At the MIT Energy Initiative's Annual Research Conference, industry leaders agreed collaboration is key to advancing critical technologies amidst a changing energy landscape.

[Element Resources chooses Chart for green hydrogen](#)

Chart announces an order from Element Resources Inc for its Lancaster Clean Energy Center. Chart's scope for the project includes H2



New materials could boost the energy efficiency of



microelectronics

MIT researchers developed a new fabrication method that could enable them to stack multiple active components, like transistors and memory units, on top of an existing circuit, which

Evelyn Wang: A new energy source at MIT

As MIT's first vice president for energy and climate, Evelyn Wang is working to broaden MIT's research portfolio, scale up existing innovations, seek new breakthroughs, and channel



Large-Scale Sulfur Thermal Battery Demonstration for Enhanced Grid

Element 16 Technologies, Inc., (Element 16) successfully developed and demonstrated a novel long-duration energy storage technology that uses sulfur in a single-tank configuration to

[Element Resources to build hydrogen plant with solar.](#)

Element Resources is exploring the possibility of developing another hydrogen facility in Boron, California. The state is moving aggressively to



[Element Energy completes 'world's largest' second life](#)

Second life energy storage and BMS firm Element Energy has commissioned the largest project in the world using repurposed EV batteries, it

[Explained: Generative AI's environmental impact](#)

MIT News explores the environmental and sustainability implications of generative AI technologies and applications.



New facility to accelerate materials solutions for fusion energy

The new Schmidt Laboratory for Materials in Nuclear Technologies (LMNT) at the MIT Plasma Science and Fusion Center accelerates fusion materials testing using cyclotron proton beam

[Element Energy Announces Commissioning of World's](#)

By applying its advanced hardware and software honed in the semiconductor industry, Element Energy enabled the reuse of 900 EV batteries



A new approach could fractionate crude oil using much less energy

MIT engineers developed a membrane that filters the components of crude oil by their molecular size, an advance that could dramatically reduce the amount of energy needed for crude oil

How artificial intelligence can help achieve a clean energy future

A look at how AI can be used to help support the clean energy transition by helping to manage power grid operations, plan infrastructure investments, guide the development of novel





Lancaster Energy Center

The City has engaged in numerous formal partnerships and to harness the potential of clean hydrogen. Lancaster is jumpstarting hydrogen adoption throughout the

Making clean energy investments more successful

New research emphasizes the importance of well-validated models and forecasting tools in evaluating choices for investments in clean energy technologies and policies by governments and



What's the best way to expand the US electricity grid?

Growing energy demand means the U.S. will almost certainly have to expand its electricity grid in coming years. What's the best way to do this? A new study by MIT researchers examines

Element Resources Awards Lancaster Clean Energy Center FEED

Element selectively invests in hydrogen-related technologies that enable production of zero carbon fuel and holds patents for large capacity, low-cost underground hydrogen storage and



Using liquid air for grid-scale energy storage

Liquid air energy storage could be the lowest-cost solution for ensuring a reliable power supply on a future grid dominated by carbon-free yet

intermittent energy sources, according to a new

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