

Ted talk energy storage

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Erik is the CEO of a company that produces silicon-containing nano materials that are planned to be used in the world's lithium ion batteries in the very near future. Sauar and his team aim to ...

What if we could use the cold darkness of outer space to cool buildings on earth? In this mind-blowing talk, physicist Aaswath Raman details the technology he's developing to harness "night-sky cooling" -- a natural phenomenon where infrared light escapes earth and heads to space, carrying heat along with it -- which could dramatically reduce the energy used by our cooling ...

James talks of the era of the energy internet: specifically, how distributed generation and blockchain are transforming legacy electricity networks into community owned economic engines. James' qualifications are in Behavioural Science, Philosophy, and Mechanical Engineering; combined he examines the nexus between human and machine behaviour - a perfect storm ...

The world relies on manufacturing, and manufacturing relies on heat -- a massive contributor to global carbon emissions, responsible for a quarter of the world's fossil fuel use. Energy entrepreneur John O'Donnell has figured out a better, cleaner way to generate the heat we need to make the stuff we want. Learn how his team turned simple bricks and iron wire into a ...

How much land mass would renewables need to power a nation like the UK? An entire country's worth. In this pragmatic talk, David MacKay tours the basic mathematics that show worrying limitations on our sustainable energy options ... and explains why we should pursue them anyway.

In this talk, Deepak Sriram Krishnan has laid out many of the questions concerning the elephant in the room: Energy. He starts by explaining how Energy fits into the category of a wicked problem- a phrase borrowed from design theorists Horst Rittel and Melvin Weber. Deepak explains that energy solutions are not that simple. He also notes there are numerous transition problems ...

Dr. Rob Maher, a professor of engineering and an inventor, talks about how electricity grids operate around the world. He also delves deep into the issue surrounding energy storage with renewable sources of energy. Dr. Rob explains that an electricity grid only works when the consumption and production of energy are the same at any point in time.

An energy storage solution for the future. Abandoned mine sites in the United States can create environmental disturbances that last decades or longer. This talk proposes an idea that not only permanently ...

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Ben highlights one of the largest challenges our world faces regarding the storage and management of renewable, clean energy sources. In this talk he presents an enlightening and innovative idea about how we need to store energy for the future of mankind while lowering our dependence on fossil fuels. ... Browse the library of TED talks and ...

This talk will bring the public's attention to geothermal energy as a neglected source of renewable energy, yet a perfect complementary solution to wind and solar energy for transitioning the global energy system away from fossil fuels. The talk will cover the externalities and deficiencies associated with the conventional approach to the Energy Transition (Wind + Solar + Storage), ...

Most energy storage methods, including batteries, are expensive and difficult to scale. Danielle Fong saw the opportunity to reinvent a classic technology - compressed air - to solve hi-tech...

What's the key to using alternative energy, like solar and wind? Storage -- so we can have power on tap even when the sun's not out and the wind's not blowing. In this accessible, inspiring talk, Donald Sadoway takes to the blackboard to show us the future of large-scale batteries that store renewable energy. As he says: "We need to think about the problem differently. We need to ...

Environmentalists have long promoted renewable energy sources like solar panels and wind farms to save the climate. But what about when those technologies destroy the environment? In this provocative talk, Time Magazine "Hero of the Environment" and energy expert Michael Shellenberger explains why solar and wind farms require so much land for mining and energy ...

Renewable Energy TED Talks. TED and TEDx talks are a great source of original insight into all kinds of topics big and small. Here are some of the best on renewable energy, sustainability and the environment. ... Topic: How energy storage technologies are transforming our approach to electricity generation with renewables. (2018).

In this episode, Shayle talks to John O'Donnell, co-founder and CEO of Rondo Energy, a thermal storage startup. (Shayle's venture capital firm, Energy Impact Partners, has made investments in Rondo Energy.) They break down the challenges of industrial heat and discuss the range of technologies that could help generate it with low emissions.

In this fun, interactive talk, Lizzie Williamson, dubbed "the excuse-buster from Down Under", shares how to breakthrough these challenges and get your energy back, 2 minutes at a time. Big change starts with a small step.

"We're not in a clean energy revolution; we're in a clean energy crisis," says climate policy expert Michael Shellenberger. His surprising solution: nuclear. In this passionate talk, he explains why it's time to overcome longstanding fears of the technology, and why he and other environmentalists believe it's past time to embrace nuclear as a viable and desirable source of ...

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Erik Sauar holds an MSc in Chemical Engineering, an MA in Anthropology and a PhD in Physical Chemistry. Erik believes that with the current development in battery technology we should soon be able to electrify major parts of our society. Erik is the CEO of a company that produces silicon-containing nano materials that are planned to be used in the world's lithium ion batteries in the ...

In his TEDx-talk, he gives us an overview of the functionality and prospects of hydrogen-based energy storage. He shows us glimpses of a hydrogen economy, how hydrogen can be used as fuel in automobile transportation and how it can be incorporated into our everyday lives as an alternative to fossil fuels.

Anything and everything we do requires energy, and the key to using renewable sources that only work when the sun shines or the wind blows will come with our ability to store it. ... Ideas change everything. WATCH. TED Talks. Browse the library of TED talks and speakers. Playlists. 100+ collections of TED Talks, for curious minds. TED Series ...

Is it possible to meet the world's seemingly infinite demand for data storage while also caring for the natural environment? Biomedical researcher Keolu Fox and professional surfer and scientist Cliff Kapon ...

Abandoned mine sites in the United States can create environmental disturbances that last decades or longer. This talk proposes an idea that not only permanently rehabilitates such sites, but re-purposes them to create a renewable energy power plant large enough to allow entire cities to rely 100 percent on intermittent renewable energy sources like wind or solar power.

Anything and everything we do requires energy, and the key to using renewable sources that only work when the sun shines or the wind blows will come with our ability to store it.

When we want to avoid relying on fossil fuel to solve the intermittency problem of wind and solar energies, we need to store energy. However, conventional storage technologies are very expensive. With a demo and figures, Christophe Stevens is offering here two relatively simple solutions that enable us to reduce the cost of energy storage. Christophe Stevens is a Belgian ...

The modular energy storage unit, known as TED (Thermal Energy Device), was announced by Climate Change Technologies in late March. It is the first heat battery of its kind, and it is expected to immensely reduce power costs while providing versatile and long-lasting energy that has little-to-no impact on the environment. How TED Works

Watch these TED talks, in which scientists, inventors, entrepreneurs and activists share visionary ideas -- wind, solar, even next-gen batteries -- for the energy of tomorrow. ... Talks about Alternative energy. 12:32. Sebastien de Halleux. How a fleet of wind-powered drones is changing our understanding of the ocean. 12 minutes 32 seconds.

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What are the realistic pathways off of fossil fuels and towards a world of abundant clean energy? In this collection of TED Talks and exclusive interviews, we asked experts, activists and thought leaders in the space to weigh in. ... they may store or retrieve data in your browser. This storage is often necessary for the basic functionality of ...

TED Countdown Summit 2023 kicked off in Detroit, Michigan, with a wide-ranging, solution-filled session of TED Talks and performances meant to inspire action on the world's toughest challenge: climate change. Over the course of four days, the Summit seeks to change the conversation on climate change and tell a new, true story about how a [...]

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