



In this collection of TED Talks and exclusive interviews, we asked experts, activists and thought leaders in the space to weigh in on the realistic pathways off of fossil fuels. Scientists agree that we need to transition to renewable energy as soon as possible to limit global temperature rise. So why are fossil fuels so hard to quit?



Ukrainian energy executive Maxim Timchenko shares how his company has diversified Ukraine's power structures to survive Russian attacks, highlighting the resilience of renewable energy. Hear more about Ukraine's present-day ???



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 Ritte and Melvin Weber. Deepak explains that energy solutions are not that simple. He also notes there are numerous transition problems ???



The problem with renewable energy (photovoltaic, wind, hydroelectric, etc.) is that we do not currently have an efficient way to store that energy. Browse the library of TED talks and speakers. Playlists. 100+ collections of TED Talks, for curious minds. TED Series. Go deeper into fascinating topics with original video series from TED. TED



Every 24 hours, wind generates enough kinetic energy to produce roughly 35 times more electricity than humanity uses each day. And unlike coal or oil, this resource is totally renewed each day. So how can we harness this incredible amount of energy, and is it possible to create a world powered entirely by wind? Rebecca Barthelmie and Sara Pryor dig into the science of ???



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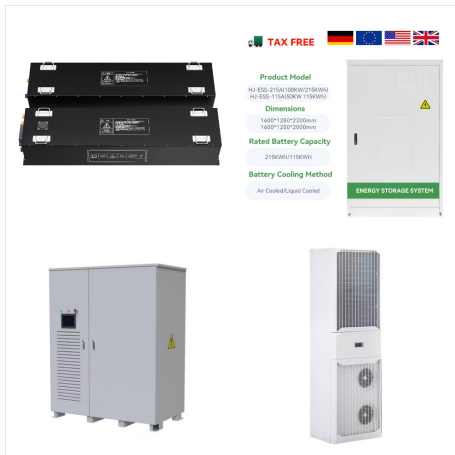
What will it take to power the planet in a way that doesn't hurt it? Chris Roe, Amazon's director of energy and sustainable operations, shares the company's pledge to get to net-zero carbon and fully operate all buildings -- including data and distribution centers, warehouses, commercial offices and grocery stores -- on 100-percent renewable energy. He reveals the most critical ???



The world faces two important and interrelated challenges. Affordable and reliable energy for all, and protecting the environment. The energy-environment challenge is not simple, but it is solvable if we understand and address the complex fabric of energy security, scale of energy demand, physics of energy density, distribution of energy resources, interconnectedness of the land, air, ???



The basic infrastructure that controls plumbing, electricity and more is vital to your individual agency, says engineering professor Deb Chachra. She offers a crash course on how these systems connect to shape our lives ??? and suggests some key improvements for providing long-term, sustainable energy to everyone.



In a series of stunning aerial photographs, Jamey Stillings presents his work documenting how renewable energy projects have shaped (and reshaped) the landscape -- from a solar plant in California to mining projects in the Atacama Desert of Chile. 100+ collections of TED Talks, for curious minds. TED Series. Go deeper into fascinating



In this intimate talk filmed at TED's offices, energy innovator Amory Lovins shows how to get the US off oil and coal by 2050, \$5 trillion cheaper, with no Act of Congress, led by business for profit. The key is integrating all four energy-using sectors???and four kinds of innovation.



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Call it "fuel without fossils": Jonathan Trent is working on a plan to grow new biofuel by farming micro-algae in floating offshore pods that eat wastewater from cities. Hear his team's bold vision for Project OMEGA (Offshore Membrane Enclosures for Growing Algae) and how it ???



A comparison between Nuclear vs Renewable Energy. Skip to main content Skip to search. Browse the library of TED talks and speakers. Playlists. 100+ collections of TED Talks, for curious minds. TED Series. Go deeper into fascinating topics with original video series from TED. TED-Ed videos. Watch, share and create lessons with TED-Ed. TEDx



Pivoting to renewable energy is more crucial than ever before but many individuals and institutions cite an unfavorable cost benefit analysis as an obstacle to immediate adoption. Michael Kennedy argues that changing the financial structure of renewable energy to benefit communities at large instead of just the wealthy will help us address climate change at a faster ???



Agriculture, energy production, living, natural ecosystems ??? do we even have enough space for all our needs? In her talk at TEDxFreiburg 2021, Jana Kalmbach shares the idea of Agrivoltaics. This new and surprisingly simple idea addresses conflict for land resources by promoting dual land use: agriculture and electricity production via photovoltaic (PV). Get to know this approach and ???



In the US, people spend the overwhelming majority of their time inside buildings that burn fossil fuels, which are bad for both the environment and human health. (Think: breathing in air pollution from gas stoves, furnaces and water heaters.) If we're going to fix this problem, we need to retrofit millions of buildings with all-electric equipment, says energy upgrader Donnel Baird. Hear ???



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Mr. Robin Pho, the founder & CEO of Right People Renewable Energy (RPRE) gives an insight into the challenges facing our environment and the role that renewal energy plays within it. He uses his personal life experiences in this sector to illustrate and highlight the renewable energy situation in SEA and proposed building sustainable practices and standards.



A net-zero future is possible, but first we need to flip a mental switch to truly understand that we can stop the climate crisis if we try, says Nobel laureate Al Gore. In this inspiring and essential talk, Gore shares examples of extreme climate events (think: fires, floods and atmospheric tsunamis), identifies the man-made systems holding us back from progress and invites us all ???



The US consumes 25% of the world's oil -- but as energy tycoon T. Boone Pickens points out onstage, the country has no energy policy to prepare for the inevitable. Is alternative energy our bridge to an oil-free future? After losing \$150 million investing in wind energy, Pickens suggests it isn't, not yet. What might get us there? Natural gas. After the talk, watch for a lively Q& A with ???



Dana Miller was born in the British Virgin Islands and began his career in Colorado in 2007, during a time of explosive growth in the solar electric industry. He is passionate about the renewable energy industry and is part of the movement to bring renewable energy, prosperity and energy security to the British Virgin Islands.



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 ???"