

The World Economic Forum's Better Community Engagement for a Just Energy Transition: A C-Suite Guide, highlights the need to ensure a people-positive approach to deploying renewable energy. Clean energy boomed in 2023, with 50% more renewables capacity added to energy systems around the world compared to the previous year.

Looking at the rapid energy transition needed to help mitigate the worst effects of climate change, we must now achieve similar success in all other renewable sources. It's critical that sources such as offshore wind or hydropower storage are also able to decrease cost to the point where fossil fuels are rendered uneconomical.

Households in Germany that produce renewable energy at home can sell any excess to the national grid. The feed-in tariff (FIT) scheme - which has been adopted by many other countries - pays renewable energy producers a set rate per kilowatt-hour for electricity they feed into the grid.

Thermal energy storage is used particularly in buildings and industrial processes. It involves storing excess energy - typically surplus energy from renewable sources, or waste heat - to be used later for heating, cooling or power generation.

Under the Energy Partnership Chile-Germany, both countries share knowledge, organise training sessions and host facilitate renewable energy agreements between business leaders and policymakers. The partnership most recently organised a trip for Chilean businesses and government officials to tour a green hydrogen storage facility in D&#252;sseldorf, Germany.

At the COP28 climate summit in late 2023, finding new sources of more sustainable power was rightly high on the agenda, with 118 governments pledging to triple the world's renewable energy capacity by 2030. The initiative, led by the European Union, the United States of America and the United Arab Emirates, clearly links the tripling of renewable energy ...

LDES systems integrate with renewable generation sites and can store energy for over 10 hours. e-Zinc's battery is one example of a 12-100-hour duration solution, with capabilities including recapturing curtailed energy for time shifting, providing resilience when the grid goes down and addressing extended periods of peak demand to replace traditional ...

Annual additions of grid-scale battery energy storage globally must rise to an average of 80 GW per year from now to 2030. In this context, energy storage can help enhance reliability and is, therefore crucial in the transition from thermal to hybrid projects.

Across the industry, the increasing energy demand, primarily from building and running the data centres used to train and operate AI models, is contributing to global greenhouse gas (GHG) emissions. Microsoft, which has invested in ChatGPT maker OpenAI and has positioned generative AI tools at the heart of its product



## Renewable energy

offering, recently announced its CO2 ...

A billion people live in a city with renewable energy targets or policies. Cities contribute three-quarters of CO2 emissions from final energy use. New report highlights some ways cities around the world are getting greener.

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