

The AGORA initiative aims at accelerating the transition to energy-efficient and climate-friendly refrigerators and air conditioners (RAC) in Nigeria and Ghana. It involves partners such as the United Nations Environment Programme (UNEP) and Energy Commission (EC).

"The AGORA project represents a key initiative of UNDP designed to facilitate transformation of the cooling technology in Africa's market, guided by UNDP's Sustainable Cooling Offer. It is an integrated approach to phase down the hydrofluorocarbons (HFCs) in air conditioners required by the Kigali Amendment of the Montreal Protocol and enhance ...

Compressed air energy storage (CAES) is an effective solution for balancing this mismatch and therefore is suitable for use in future electrical systems to achieve a high penetration of renewable energy generation. This study introduces recent progress in CAES, mainly advanced CAES, which is a clean energy technology that eliminates the use of fossil ...

In Ghana, domestic refrigeration and air-conditioning (AC) appliances constitute a significant portion of the residential electricity consumption. Refrigerators are the first main appliances purchased by most households. Air-conditioners are also ...

Under the GIZ project Sustainable Energy for Climate Protection(SustainE4Climate) ([opens in a new window](#)) in cooperation with the Energy Commission of Ghana ([opens in a new window](#)), the first climate and environmentally friendly Air-Conditioning (AC) chiller in entire Africa has been installed.The German Federal Ministry for ...

For Ghanaians with reliable access to electricity, refrigeration and air-conditioning (RAC) usage is increasing due to rising incomes, temperatures and frequency of heatwaves, and further growth expected in this sector will impact Ghana's energy systems and climate goals.

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Ghana Air Cooled Energy Storage Project

The programme has the main objective to shift Ghana's air-conditioning (AC) sector towards low carbon cooling by paving the way for ACs with high energy efficiency and the use of low greenhouse gas (GHG) emitting ...

The projects include green cooling air conditioning, deployment of clean cooking, renewable energy, electric mobility, compost, sustainable palm oil production and sustainable rice cultivation.

Liquid air energy storage (LAES) can offer a scalable solution for power management, with significant potential for decarbonizing electricity systems through integration with renewables. Its inherent benefits, including no geological constraints, long lifetime, high energy density, environmental friendliness and flexibility, have garnered increasing interest. LAES traces its ...

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During the energy storage and release process, energy conversion losses in storage stations are primarily released as heat into the surrounding environment. As the scale of such storage stations continues to expand, especially in densely concentrated layouts, the massive energy conversion process releases heat like a tide. If not promptly managed, this ...

As renewable energy production is intermittent, its application creates uncertainty in the level of supply. As a result, integrating an energy storage system (ESS) into renewable energy systems could be an effective ...

The compressed air energy storage project (CAES) project in Hubei, China. Image: China Energy Construction Digital Group and State Grid Hubei Integrated Energy Services. A compressed air energy storage (CAES) ...

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