Ghana energy storage for electric vehicles

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The country has outlined six decarbonization techniques to be pursued to ensure a smooth transition which it expects to cover over 90% of the targeted reduction by 2060. They are:oElectrification and renewablesoCarbon capture and storageoLow carbon hydrogenoBattery Electric Vehicle technologiesoClean Cooking technologiesoNegative Emission solutions

The current emissions of 28 Mt CO2 is estimated to rise to over 140 Mt in 2050. The bulk of these emissions" growth will come from the transportation sector, driven by population growth, GDP per capita growth, and vehicle emissions.Ghanaian officials expect to use the new plan to engage the international community and investors in supporting the country"s energy transition and sustainable development goals. When fully implemented, Ghanaian officials estimate that it would create almost 400,000 jobs, which will be an important aspect of the country"s industrialization drive given Ghana"s large, youthful population.

Ghana estimates that the cost of this energy transition and investment plan to be $550 billion. Ghana seeks to attract interested investors who will take advantage of the opportunities in this sector of the economy.There are a few challenges which the country must overcome to achieve this goal. For example, it will require energy officials to integrate intermittent renewable sources like solar and wind into the grid. There must be substantial upgrades to the national grid to accommodate this projected increase in renewable energy generation capacity. The greatest effort, however, will be the ability to attract the needed investment given Ghana"s current economic crisis.

oElectrification and renewables decarbonization solutionsoThe deployment of civil nuclear for energy purposes and supporting goods and services to this effort oBattery electric vehicles (BEV) technologies

Renewables including nuclear and expanding BEV use constitute more than seventy-five percent of Ghana’s plan to achieve net zero emissions. There is existing U.S. company interest in both sectors already, creating solid opportunities for partnerships in this sector.

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