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Assessing the Role of Small Modular Reactors (SMRs) in Achieving Sustainable Industrial Growth in Africa: Opportunities, Challenges, and Policy Implications

Africa is regarded as a significant and rapidly expanding hub for factories and businesses, with a GDP of over 2.7 trillion USD, there is a growing need for clean and reliable energy to sustain its growth. This paper examines how Small Modular Reactors (SMRs) can be utilized to provide the necessary energy for Africa's factories and industries. SMRs are small, safe nuclear reactors that can generate substantial energy with minimal pollution. Africa's energy situation, including instances of insufficient energy and its detrimental effects on the environment, will be discussed. The advantages of SMRs, such as their ability to generate significant energy while producing minimal pollution, will also be addressed. Furthermore, the necessary measures to implement SMRs in Africa, including the establishment of regulations and waste management strategies, will be explored. By considering the utilization of SMRs in Africa, efforts can be made to ensure that the region's factories and businesses continue to grow in an environmentally friendly manner.

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