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Justo, C.D.; Tafula, J.E.; Moura, P. Planning Sustainable Energy Systems in the Southern African Development Community: A Review of Power Systems Planning Approaches. *Energies* 2022, 15, 7860. <https://doi/10.3390/en15217860>

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Access to electricity, coupled with aggressive industrialization, is a key component in achieving sound economic development. Electricity is needed to maintain law and order, security, and stability [1]. From an economic point of view, the production of all goods and services and the development of economic infrastructure all depend on a reliable and sustainable supply of electrical energy.

The Institute of Statistical, Social and Economic Research (ISSER) in 2014 estimated Ghana to lose between

\$320 million and \$924 million per annum in productivity and economic growth due to the current power crises [2]. The Wholesale Power Reliability Assessment report (2010) also estimated that Ghana loses between 2 and 6 % of gross domestic product (GDP) annually due to inadequate and unreliable power supply. Footnote 1 Thus, with the economic costs of inadequate power supply, a reliable and adequate supply of power becomes even more pressing.

While Ghana has committed itself to universal electricity access by 2020, the real challenge is the capacity to meet this goal and, most important, to ensure that supply is reliable and adequate. Respective governments have also failed in their preparation towards building a sustainable and resilient power hub to cater for the incessant power demand. Especially for a lower middle-income country like Ghana, it is important to recognize the growth of industries and the increasing population growth in relation to the increase in power demand.

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