Renewable electricity accra

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Solar and biogas technologies are fit for adoption in informal settlements but have limited adoption due to many barriers, including cost, knowledge, technical expertise, financial support, and others.

In the Global South, most equipment for alternative energy sources is imported, which attracts tariffs and import duties. It is imperative to reduce or eliminate the tariffs and import duties on renewable energy equipment to stimulate investment and motivate people to acquire them.

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Ghana generates electric power from hydropower, fossil-fuel (thermal energy), and renewable energy sources such as wind and solar energy. Electricity generation is one of the key factors in order to achieve the development of the Ghanaian national economy, with aggressive and rapid industrialization; Ghana"s national electric energy consumption was 265 kilowatt hours per each one in 2009.[2][3]

Ghana exports some of its generated energy and fossil fuels to other countries.[2][4] Electricity transmission is under the operations of Ghana Grid Company.[5] The distribution of electricity is under Northern Electricity Distribution Company and Electricity Company of Ghana.[6]

The first Ghana government-sponsored public electricity supply in Ghana commenced in the year 1914, at Sekondi-Takoradi, operated by the Ghana Railway Administration (Ghana Railway Corporation). Power supply was extended to Sekondi-Takoradi in 1928. The Ghana Public Works Department had commenced a limited direct current (DC) supply in Accra during 1922. A large alternating current (AC) project started on 1 November 1924, and a small plant consisting of three horizontal single cylinder oil-powered engines was installed in Koforidua in 1925.

In 1926, work started on electrical distribution to Kumasi.[7] A restricted evening supply commenced in May 1927, and a power station was brought into full operation on 1 October 1927.[7] In the same year DC supply was installed at Winneba, but this was subsequently changed to AC by extending an existing supply from Swedru and during the period 1929-30, a limited electricity supply was extended to Tamale, until a new AC plant was installed in 1938.[7]

The Tema power station was commissioned in 1956 with a 3 x 650 kilowatts (870 hp) diesel generating set.[7] The Ho power station followed in 1957 and from 1961 to 1964.[7] The Tema power station was extended to a maximum capacity of 35,298 kilowatts (47,335 hp), thus, making it probably the biggest single diesel-powered generating station in Africa.[7]

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In 1963 the Ghana Electricity Division brought into operation the first 161 kV transmission system in Ghana, which was used to carry power from the Tema Power Station. At its peak in 1965, about 75 percent of the power was used in Accra.[7][9]

In 1994, Ghana"s total generating capacity was about 1.187GW, and annual production totaled approximately 4.49GW. The main source of supply was the Volta River Authority with six 127MW turbines[7] installed at the Akosombo Hydroelectric Project. At this time, this project provided the bulk of all electricity consumed in Ghana, some 60 percent of which was purchased by Volta Aluminum Company (VALCO) for its smelter. The power plant export amounted to an estimated equivalent of 180,000 tons of oil in 1991.[7]

The balance of Ghana"s electricity was produced by diesel units owned by the Electricity Corporation of Ghana, by mining companies, and by a 160MW hydroelectric plant at Kpong, about 40 kilometers downstream from Akosombo. A third dam at Bui on the Black Volta River had been studied, and was completed in 2013.[7]

Other sites with the potential for power generation, on the Pra River (Ghana), the Tano River, the White Volta River, and the Ankobra River, would also require substantial investment.[7]

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