

Swaziland Peaking Power Station Energy Storage

What is the trend for the Eswatini energy system?

The overall trend for the Eswatini energy system is clear: de-pendency on electricity imports will remain above 50 % in total electricity production to about 2019, then gradually decrease until 2034 to less than 10 %.

What time does Eswatini use the most electricity?

All months have, on average, a peak in demand in the evening at around 6:00 p.m. This is a common pattern since, at that time, people generally arrive home and use most electricity for lighting and other appliances. Eswatini is well endowed with solar energy resources.

Who is involved in preparing the energy Mas-Terplan in Swaziland?

The working team comprised experts from the Ministry of Natural Resources and Energy, Swaziland Electricity Company, Swaziland Energy Regulatory Authority, the Central Statistical Office and the University of Swaziland. The team received training on energy statistics use in energy planning tools and on preparation of the Energy Mas-terplan.

How can the Eswatini energy system be used to inform policy?

The Eswatini energy system is modelled for analysing energy technology choices. In view of the close correlation between energy sector policy and technology choices, the model considers how the energy system can be used to inform policy.

Will Eswatini develop a coal-fired power plant?

Eswatini is considering developing a coal-fired power plant to achieve self-sufficiency, even though coal is not a least-cost option. The price of domestic coal makes it non-competitive as compared to the price of imported electricity.

How much power does Eswatini use?

(36 %) and wood chips (27 %). Coal accounts for 12 % of total fuel use for power generation, and the remaining 25 % is from hydropower (Figure 3.2). The total installed generation capacity in Eswatini in 2014 was around 180 MW, including 106 MW of biomass, 61.5 MW of hydropower, 9 MW of diesel and 2.2 MW of coal power plants.

Equipped with 35 energy storage units, the First Lujiayao Energy Storage Power Station will not only help balance electricity supply and demand but also significantly improve the stability and ...

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