

A-Core Container

Congo Kinshasa mobile power station power generation



Overview

After the completion of the Jinsuka Power Station and its supporting power grid project, it will become the country's first automated distribution network in the Democratic Republic of the Congo and Kinshasa's largest and most technologically advanced 220kV substation, which will significantly improve the power supply of the capital Kinshasa. What is the main priority for the Democratic Republic of Congo's power sector?

The main priority for the Democratic Republic of Congo's power sector is to increase access to electricity. The Democratic Republic of Congo is a large country with 10 million households of which 1.6 million have access to electricity. This makes it the third largest population in the world without access to electricity.

What is the power sector in DR Congo?

Revised in September 2023, this map provides a detailed view of the power sector in DR Congo. The locations of power generation facilities that are operating, under construction or planned are shown by type - including liquid fuels, natural gas, coal, hybrid, hydroelectricity, solar PV and methane.

What is the government's vision for power generation in Congo?

The government's vision is to increase the service level to 32 percent by 2030. Lack of access to modern electricity services impairs the health, education, and income-generating potential of millions of Congolese people. Most power generation development is directed and funded by mining companies seeking to power their facilities.

How much electricity does Kinshasa use?

Residential electricity consumers are concentrated in Kinshasa and a few other large cities in the South or along the Eastern border with Rwanda and Uganda. Average annual demand per capita in Kinshasa is estimated at around 380 kWh, compared with around 330 kWh in Southern cities and 290 kWh in Eastern cities.

How will rising demand affect electricity service in Kinshasa?

If this rising demand is not met with an increase in supply and improvements to electricity infrastructure, it will lead to further deterioration of electricity service. In Kinshasa, while 60% of the population has access to electricity, service quality and reliability is very poor.

Why does Kinshasa have a low power supply?

This is due mainly to the saturation of the Kinshasa distribution grid and capacity limitations for Inga 1 and 2 power plants. Power injected into the network is currently limited to about 500 MW, whereas peak demand is estimated at 1000 MW⁹.

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