

How politics and poverty affect electricity provision in Zimbabwe

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Zimbabwe's [economic challenges](#) are numerous, but one of the most pressing is electricity scarcity. Around [40%](#) of the country's population has access to electricity.



Untapped energy sources: hydro-power potential is concentrated along the Zambezi River in Zimbabwe. Image source: Gallo/Getty

The country has access to [vast and diverse](#) possible energy resources. These include about 12 billion metric tonnes of coal, hydro power potential concentrated along the Zambezi River and untapped [solar power potential](#).

This is not peculiar to Zimbabwe. In the Democratic Republic of Congo, for example, only [16%](#) of the population has access to electricity. Yet the country could meet much of the entire region's demand for electricity through the hydro power generation and diversification of renewable energy sources in the country.

I conducted [research](#) to establish what the panacea could be for electricity scarcity in Zimbabwe. My conclusion was that the vaunted argument of increasing generation capacity is inadequate. This is because the technological interventions don't address the [distribution concerns](#).

My study shows that the supply view is only a partial response to the problem. Access to electricity is in fact dependent on socio-economic and political factors. As I argue in my study, the real problems getting in the way of access to electricity are social, political and economic.

These structural factors reproduce electricity social scarcity, which in turn perpetuates social injustice. This is because electricity is essential for development.

What this shows is that policy choices and affordability need to be addressed if the electricity shortage is to be resolved.

Energy mix

Currently, Zimbabwe produces [1,100](#) megawatts of electricity against a national demand of [1,500](#) megawatts. It generates power from water and coal, and also imports electricity.

The major source of hydro power for Zimbabwe is the Kariba Dam, which has an estimated capacity of [1.050 megawatts](#).

Coal-fired power stations produce about [70%](#) of the country's energy. But the Hwange Coal Power Station is affected by inadequate financial resources for infrastructure and equipment maintenance, leading to [supply disruptions](#).

To make up for the shortfall, Zimbabwe relies on [imports](#) from South Africa's electricity public utility, Eskom, and from Mozambique.

Even if renewable energy were to be added into the energy mix, the supply mix could increase the cost of production, which would then be passed on to the [end users](#).

Factors that drive disparity

There is an urban advantage in Zimbabwe's energy profile, as is the case across much of [Africa](#). The overwhelming bulk of the region's electricity grid is concentrated in urban areas, while the vast majority of the population living without electricity is in the rural and peri-urban areas.

According to the Zimbabwe national energy policy [report](#) of 2012, [83%](#) of urban households have access to electricity compared with [13%](#) in rural areas. Rural communities meet [94%](#) of their cooking energy requirements from traditional fuels, mainly fuelwood. Wood is the main cooking fuel for [20%](#) of urban households.

No newer reliable data are available, but these trends are likely to have got worse rather than better in the past seven years.

Coal, charcoal and liquefied petroleum gas are used by less than [1%](#) of urban households. The electrification rate in the rural areas is approximately [10%](#). Connection to the electricity grid is highly unequal.

Households' poverty status adds to the disparity in access. A 2017 Poverty, Income, Consumption and Expenditure [Survey](#) found that extreme poverty was much higher in rural areas. Over 40% of the rural population was [extremely poor](#) compared to 4.4% in urban areas.

Poor people have borne the brunt of [hyperinflation](#), which has affected the price of fuel. For example, the price of cooking gas has increased more than six-fold since the start of 2019.

At the same time the electricity tariff has soared by [320%](#), placing it beyond the reach of many, particularly the poor.

Solutions

[Most analyses](#) consider increased availability of electricity to be linked to technological development. But this school of

thought doesn't acknowledge the structural nature of electricity scarcity.

As my research shows, failure to address this will simply lead to energy poverty being perpetuated.

My study reveals that affordability is a major barrier to electricity access. The affordability factor needs to be considered in its entirety because it is made up of a number of factors. These include electricity rates, income levels, the cost of living and various socio-economic indicators.

Availability doesn't mean accessibility. Due to the market trends, electricity provision is skewed towards high income groups while the poor use cheaper, inefficient and unclean [alternatives](#) such as charcoal and fuelwood.

What needs to be done?

It is imperative to take poor communities into consideration when trying to address Zimbabwe's power shortages. If this doesn't happen, the country risks doubling its efforts to increase generation capacity, but leaving behind vulnerable groups.

Zimbabwe can look to South Africa for guidance. Though South Africa has [electricity shortages](#), it cushions the poor against high energy costs. Indigent households get [50kWh](#) of free electricity per month. Where electricity is not available, the country's Free Basic Alternative Energy [policy](#) provides alternative energy such as subsidised paraffin, liquefied petroleum gas, coal and bio-ethanol gel. Customers who use less energy also benefit from a lower [tariff](#).

Zimbabwe's poor cannot survive the vagaries of the market on their own. The country needs to reduce inequality through an integrated electrification agenda that leaves no one behind.

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