

# DR Congo abj renewables





## Overview

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The Democratic Republic of Congo (DRC) is in the center of sub-Saharan Africa. DRC is bordering the Central African Republic to the north, the Republic of Congo to the north-west & South Sudan to the north-east. On the eastern borders lie Uganda, Rwanda, Burundi & Tanzania (with Lake Tanganyika separating the).

More than 90% of the population rely on biomass (charcoal, firewood) for cooking. In Kinshasa and Kisangani alone 4.9 million m<sup>3</sup> of firewood was traded which exceeds the official volume of biomass traded by 12 times.



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### Congo Democratic Republic

The DRC's natural resources are immense and diverse consisting of non-renewable resources, including oil, natural gas, and uranium, as well as renewable energy sources, including hydroelectric, biomass, solar, and geothermal power accounting for 96% of domestic power generation, the bulk of which is generated by the Inga I and II dams (1,775

### Democratic Republic of the Congo

How important are renewables in the energy mix of Democratic Republic of the Congo? What is the role of renewables in electricity generation in Democratic Republic of the Congo? What are ...



### Democratic Republic of the Congo

The DRC has immense and varied energy potential, consisting of non-renewable resources, including oil, natural gas, and uranium, as well as renewable energy sources, including hydroelectric, biomass, solar, and geothermal power.

### Democratic Republic of the Congo Energy Outlook

Meeting this through renewable hydropower would help to develop low-carbon electricity for Democratic Republic of the Congo and a low-



carbon value chain for the global ...



### ENERGY PROFILE Democratic Republic of the Congo

Renewable energy supply in 2021 3%-0% 97%  
 Oil Gas Nuclear Coal + others Renewables 1%  
 3% 96% Hydro/marine Wind Solar Bioenergy  
 Geothermal 22% 4% 96% 0% 20% 40% 60% ...

### Democratic Republic of the Congo

How important are renewables in the energy mix of Democratic Republic of the Congo? What is the role of renewables in electricity generation in Democratic Republic of the Congo? What are the main sources of renewable heat in Democratic Republic of the Congo?

12.8V6Ah

- Nominal voltage (V):12.8
- Nominal capacity (Ah):6
- Rated energy (Wh):76.8
- Maximum charging voltage (V):14.6
- Maximum charging current (A):6
- Floating charge voltage (V):13.6-13.8
- Maximum continuous discharge current (A):10
- Maximum peak discharge current @10 seconds (A):20
- Maximum load power (W):100
- Discharge cut-off voltage (V):10.8
- Charging temperature (°C):0-+50
- Discharge temperature (°C):-20-+60
- Working humidity: <95% RH (non condensing)
- Number of cycles (25 °C, 0.5c, 100%DoD): >2000
- Cell combination mode: 32700-4s1p
- Terminal specification: T2 (6.3mm)
- Protection grade: IP65
- Overall dimension (mm):90\*70\*107mm
- Reference weight (kg):0.7
- Certification: UN38.3/muds



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 80% World Congo DR Biomass potential: net  
 primary production Indicators of renewable  
 resource potential Congo DR 0% 20% 40% 60%  
 80%



## Democratic Republic of the Congo Energy Outlook

Meeting this through renewable hydropower would help to develop low-carbon electricity for Democratic Republic of the Congo and a low-carbon value chain for the global electric vehicle fleet. Given the country's dispersed population centres, decentralised solutions offer the lowest cost way to overcome grid limitations and provide electricity



## Democratic Republic of the Congo

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## DR Congo: Renewables promise more than mega-projects

Democratic Republic of Congo boasts massive energy generation potential from hydro, wind or solar, but the traditional approach of evaluating hundreds of prospective ...



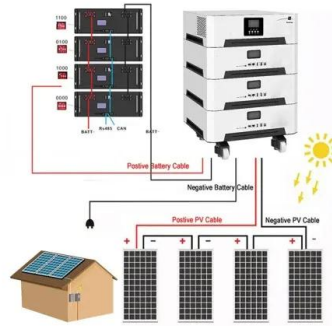
## Improving energy supply, bringing down the cost of energy , BMZ

Hydropower is a renewable energy that can be developed at low cost; it has the potential to supply not only the DR Congo with energy but also export markets in southern Africa. Through ...



### DR Congo: Renewables promise more than mega-projects

Democratic Republic of Congo boasts massive energy generation potential from hydro, wind or solar, but the traditional approach of evaluating hundreds of prospective hydro sites across the country looks increasingly flawed.



### Improving energy supply, bringing down the cost of energy , BMZ

Hydropower is a renewable energy that can be developed at low cost; it has the potential to supply not only the DR Congo with energy but also export markets in southern Africa. Through its development cooperation, Germany is helping to ensure that this potential is harnessed more efficiently in the Great Lakes region.



### DR Congo Launches 120 kW Solar Plant

The Democratic Republic of Congo has inaugurated a 120 kW hybrid solar plant in Mambasa, Ituri province, under the Green Energy Post-Pandemic Initiative. This project aims to expand sustainable energy access in underserved areas.



### Democratic Republic of the Congo Energy Situation

The DRC's potential to generate energy is high, having a wide range of both renewable and non-renewable energy sources. The DRC's potential renewable sources are hydropower, biomass, solar, wind and geothermal, while the non-renewables would be oil, natural gas & uranium.



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