

## European Solar and Energy Storage Solutions

# Res power for good DR Congo



## Overview

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ENVIRONMENT SOCIAL BUSINESS We are one of the world's largest independent renewable energy companies, active in 11 countries. We work across onshore and offshore wind, solar, energy storage, transmission and distribution and green hydrogen. At the forefront of the industry for.

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We see energy's potential to be a force for good in the world, and not a price to pay for a certain standard of living. And while we can't change the world on our own, together, we can play our.

The 'Power for Good' report outlines RES' sustainability strategy and 2050 outlook. Highlights include: Environment. Near-term 2030 and long-term 2050 greenhouse gas emissions reductions targets approved by SBTi; improved rigour and depth of emissions data collection processes.

In this project, RLI scientists are working with partner organisations to support electricity access planning in the Democratic Republic of Congo. To this end, they are improving the Congo Epela online visualisation platform, updating data and producing case studies on decentralised power supply options at local level.

Mining firms in the Democratic Republic of Congo have been forced to import electricity from as far as Kenya and Ethiopia amid a biting supply, ironic for a country that would potentially power most of Africa were its hydropower capacity harnessed. How much energy does DR Congo have?

The national hydroelectric potential is estimated at about 100,000 MW, corresponding to 13% of the global potential or 66% of Central Africa's potential. In 2014, the country's energy supply represented only 2% of the

hydroelectric potential. Consequently, the DR Congo has been exposed to a chronic energy deficit. 2.1.

Is DR Congo facing a serious energy crisis?

The DR Congo has faced a severe energy crisis despite major energy potential. In 2014, it liberalized its energy sector. The paper examines the Inga 3 dam project, which is confronted with political, geostrategic, and financial challenges.

How much hydropower does DR Congo have?

Introduction The DR Congo's hydropower resources are estimated at about 100,000 MW, of which 44,000 MW are concentrated at the Inga site (Kongo Central province). The Grand Inga project has regional and continental dimensions. It is one of the key priorities of the African Union (AU) agenda 2063.

What did DR Congo do in 2014?

In 2014, the DR Congo reformed the energy sector's legislation with the World Bank's assistance. The energy sector's liberalization aimed to provide affordable and reliable energy to all consumers. 3.1. Key priorities in terms of energy security On June 17, 2014, the electricity law n° 14/011 was promulgated [ 15 ].

What is the energy potential of the Congo River?

The Congo River, which is the second largest river in the world with its basin astride the Equator provides an energy potential estimated at 100,000 MW spread across 780 sites in 145 territories and 76 000 villages. This potential represents approximately 37% of the African overall potential and about 6% of the global potential.

How does green technology affect the energy sector in DR Congo?

The energy sector in the DR Congo under the pressure of green technology development In 2016, the energy deficit in the copper-cobalt belt of the ex-Katanga was estimated at 900 MW. In addition to the electricity gap, an insufficient reliable transport system has affected the development of industrial mining projects.

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### Electrification tool for the DR Congo - Phase 3

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### Power for Good

## RES publishes 'Power for Good' 2023 Sustainability Report

The 'Power for Good' report outlines RES' sustainability strategy and 2050 outlook. Highlights include: Environment. Near-term 2030 and long-term 2050 greenhouse gas emissions reductions targets approved by SBTi; improved rigour and depth of emissions data collection processes.



### Power for Good

RES POWER FOR GOOD REPORT OUR COMPANY UNSER VORGEHEN UMFELD SOZIAL BUSINESS 6 Unser 23-GW-Projektportfolio reicht aus, um die Stadt Paris ein Jahr lang mit Strom zu versorgen Vermeidung von über 21 Millionen Tonnen CO2 pro Jahr\*, was der Menge entspricht, die von 957 Millionen Bäumen absorbiert wird ...was einen Wald von der Größe ...

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- Efficient Higher Revenue**
  - Max. Efficiency 97.5%
  - Max. PV Input Voltage 600V
  - 100% Peak Output Power
  - 2 MPPT Trackers, 100% DC Input Overvoltage
  - Max. PV Input Current 55A, Compatible with High Power Modules
- Intelligent Simple O&M**
  - IP65 Protection Degree: support outdoor installation
  - Smart II Grid Diagnostic Function: locate PV string faults accurately and automatically detect faults
  - DC & AC Type II SPD: prevent lightning damage
  - Battery Reverse Connection Protection
- Flexible Abundant Configuration**
  - Plug & Play, EPC Switching Under 10min
  - Compatible with Lead-acid and Lithium Batteries
  - Max. 6 Units Inverters Parallel
  - AFC Function (Optional): when an arc fault is detected the inverter immediately stops operation



## About us

Why RES Collaboration is central to how we work. We combine our technology and talents to deliver better outcomes for people and the planet. With 40 years of experience and over 2500 people employed around the world, we're able to put our expertise to good use and power positive change.

## RES: Jobs

RES , 137,753 followers on LinkedIn. Power for good , RES is the world's largest independent renewable energy company, working across 24 countries and active in wind, solar, energy storage, green hydrogen, transmission, and distribution. An industry innovator for over 40 years, RES has delivered more than 26 GW of renewable energy projects across the globe and plans ...



## A Hybrid Photovoltaic/Diesel System for Off-Grid Applications in

Overall, a hybrid diesel-PV power system in Lubumbashi, DR Congo, could provide a cost-effective and reliable option for improving access to energy in the region; however, there are a

number



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## DR Congo electricity infrastructure map shows country's power ...

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, ...

## Reduced Carbon Emissions in Lubumbashi, DR Congo, Using ...

...

Congo), diesel power plants are a common source of electricity. The need to utilise local renewable energy sources in DR Congo has

increased due to the unreliability of the state grid and the rising



## RES

RES , 153,315 followers on LinkedIn. Power for good , RES is the world's largest independent renewable energy company, working across 24 countries and active in wind, solar, energy storage, green hydrogen, transmission, and distribution. An industry innovator for over 40 years, RES has delivered more than 27 GW of renewable energy projects across the globe and plans ...

## DR Congo: Plenty of power but not enough electricity to drive

Mining firms in the Democratic Republic of Congo have been forced to import electricity from as far as Kenya and Ethiopia amid a biting supply, ironic for a country that would potentially power most of Africa were its hydropower capacity harnessed.



## RES publishes 'Power for Good' 2023 Sustainability Report

15 July 2024, Hertfordshire, UK - RES, the world's largest independent renewable energy company that supports 41GW of operational assets globally, has released its full-year 2023 Global Sustainability Report, 'Power for Good'. In 2023,



RES' development and construction activities helped avoid more than 23 million tonnes of carbon dioxide emissions[1],

## Addressing renewable energy conundrum in the DR Congo: ...

The DR Congo's hydropower resources are estimated at about 100,000 MW, of which 44,000 MW are concentrated at the Inga site (Kongo Central province). The Grand Inga project has regional and continental dimensions. It is one of the key priorities of the African Union (AU) agenda 2063.



## 2021 Power for Good Report

RES and our sustainability approach Business Environment Social Our 2021 sustainability objectives 2020 performance summary 2. 6. 8. 20. 26. 36. 37. Hill of Towie Wind Farm. We strive to be a Power for Good through our core values: passion, accountability, collaboration and excellence. These values define our

## ENERGY - Embassy of the Democratic Republic of Congo

The DRC immense energy potential consists of non-renewable resources such as oil, natural gas and uranium, and renewable energy sources including hydroelectric, biomass, solar, wind, and geothermal power. The government's vision is to increase the level of service up to 32% in 2030.

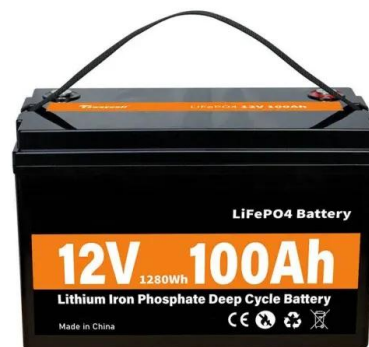


## DR Congo's energy infrastructure - May 2024 , African ...

This map provides a detailed view of energy infrastructure across DR Congo. The locations of power generation facilities that are operating, under construction or planned are shown by type - including liquid fuels, ...

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