

Sierra Leone Internet Smart Energy



Article Overview

Sierra Leone is advancing its digital transformation with renewable-powered 5G networks and the SMART Sierra Leone Project, combining sustainable energy with expanded internet access.

Renewable-Powered 5G Network

Sierra Leone has launched its first 5G network powered entirely by renewable energy, a collaboration between local telecom Zoodlabs SL and CrossBoundary Energy . The network uses solar photovoltaic panels, battery storage, and backup generators, achieving 99.9% uptime while minimizing reliance on fossil fuels . This infrastructure provides ultra-fast, low-latency connectivity, enabling applications such as remote healthcare, e-learning, smart cities, and Internet of Things (IoT) solutions . Initial deployment includes five 5G towers in Freetown, with plans for nationwide expansion . The renewable-powered system meets approximately 83% of the network's electricity needs, setting a regional benchmark for sustainable telecom operations .

SMART Sierra Leone Project

In parallel, the government signed a \$50 million agreement with China National Technical Import & Export Corporation to implement the SMART Sierra Leone Project . The project aims to:

- Expand internet connectivity to over 400,000 previously unconnected citizens
- Establish national data centers to manage and protect sovereign data
- Enhance security around critical state infrastructure in Freetown Additionally, the...

Article Content

Sep 08, 2025

SIERRA LEONE ENERGY TRANSITION AND GREEN GROWTH PLAN

The economic benefits are profound. Transitioning to clean energy will help avoid fossil fuel imports and stimulate job creation. In the

Feb 03, 2026

Exploring Alternative Energy Generation Options with Experts

Sierra Leone is endowed with potential diverse energy sources, e.g., solar, wind and hydro, but still has one of the lowest electricity

Oct 31, 2025

SIERRA LEONE NATIONAL DIGITAL DEVELOPMENT STRATEGY

The NDDS will enable Sierra Leone to thrive in the digital age through, one, getting things done in a coordinated manner, two,

Sep 06, 2025

Ministry of Energy, Government of Sierra Leone

The Ministry of Energy is implementing several flagship initiatives designed to expand access, improve reliability, and modernize

Jan 25, 2026

Sierra Leone | Sustainable Energy for All

Crucially, Sierra Leone's energy transition will depend on new institutional models and policy frameworks to mobilize and incentivize

Sep 11, 2025

Enhancing Sierra Leone Energy Access Project (ESLEAP)

The objective of this project is to increase energy access in Sierra Leone by through mini-grids targeting communities with productive

Jul 28, 2025

Sierra Leone Smart Energy Market (2025-2031) | Value & Competitive ...

3.6 Sierra Leone Smart Energy Market Revenues & Volume Share, By Product, 2021 & 2031F 3.7 Sierra Leone Smart Energy

Mar 07, 2026

Ministry of Communication, Technology & Innovation

The Ministry of Communication, Technology and Innovation (MoCTI), in collaboration with the World Bank Group, is developing

Oct 17, 2025

Ultra One

Ultra One delivers one of the most advanced and resilient connectivity infrastructures in Sierra Leone. Our network spans the

Oct 15, 2025

Enhancing access to energy in Sierra Leone

The project aims to increase energy access across Sierra Leone through a dual approach: installing mini-grids in

Nov 06, 2025

Zoodlabs and CrossBoundary Energy Launch Sierra Leone's First 5G ...

These advancements can support developments in areas such as smart cities, remote healthcare, and Internet of

Dec 23, 2025

Zoodlabs SL, CrossBoundary Energy Launch Sierra Leone's First

Zoodlabs SL, a company that provides high-speed internet services through a wireless broadband network, in partnership with

Sep 30, 2025

Sierra Leone Signs \$50M SMART Project Deal with China, Boosting

During the signing ceremony, His Excellency President Julius Maada Bio highlighted the three main objectives of the

Aug 31, 2025

SOGREA Initiative Opens Call for Private Sector Developers to Fast ...

Delivered in partnership with the Government of Sierra Leone, SOGREA aims to crowd in private capital to expand

Dec 28, 2025

Sierra Leone's first 5G network powered by renewables | ATR

Zoodlabs, a telecommunications firm headquartered in Sierra Leone, has revealed that it is leveraging renewable

May 23, 2026

Sierra Leone To Launch Africa's First Renewable Energy-Powered 5G

Sierra Leone is preparing to launch its first 5G network powered entirely by renewable energy, a move that marks a

Aug 03, 2025

Sierra Leone and China sign \$50 million agreement for SMART Sierra ...

The signing took place on the margins of the FOCAC Summit in Beijing which President Bio is attending, marking a

Jan 07, 2026

Sierra Leone Signs \$50 Million Agreement with China for SMART and ...

The Government of Sierra Leone has taken a major step in advancing the country's digital transformation by signing a

Apr 04, 2026

Sierra Leone to launch first 5G network powered by renewable energy

Once realised, Sierra Leone would be among the first countries in Africa to implement 5G technology at scale using renewable

Sep 02, 2025

Sierra Leone Signs \$50 Million Agreement with China for SMART and ...

Africa-Press - Sierra-Leone. The Government of Sierra Leone has taken a major step in advancing the country's

Sep 24, 2025

Smart Cities

Sierra Leone: Sierra Leone is expected to witness significant growth in the Smart Cities market. Definition: Smart Cities term refers to

Oct 06, 2025

The Sierra Leone National Broadband Strategy_v5 21

The Ministry's primary focus is to transform Sierra Leone into a Digital Economy through developing regulatory frameworks used to

Aug 13, 2025

Renewable energy powers 5G rollout in Sierra Leone

CrossBoundary Energy's specialised knowledge in solar energy solutions has enabled Zoodlabs to power this

Apr 26, 2026

Sierra Leone : Launch of First 5G Network Powered by Renewable Energy

Edited by : Salma karmass Sierra Leone has officially launched its first fifth-generation (5G) telecommunications

Sep 22, 2025

Sierra Leone Signs US\$50 Million Deal With China For

Sierra Leone's government has signed a US\$50 million agreement with China National

Feb 05, 2026

Sierra Leone Gets First Green Powered 5G Network

Zoodlabs and CrossBoundary Energy unveil Sierra Leone's first renewable energy powered 5G network, combining

Aug 05, 2025

AI Networks

AI Networks is an innovative data, video and voice communication & Internet Service Provider in Sierra Leone We have a passion to

Aug 28, 2025

Powering Progress: Residential Renewable Energy Trends in Sierra Leone

Smart energy management systems empower homeowners to monitor and control their energy usage, maximizing

Feb 24, 2026

FORTHE REPUBLIC OF SIERRA LEONE

Sierra Leone's Compact will serve as the main strategic document of the energy sector aligning previous strategies and planning

Dec 27, 2025

Sierra Leone : Launch of First 5G Network Powered by Renewable

The new network will rely primarily on renewable energy sources to power its infrastructure, addressing the country's

May 10, 2026

Smart Appliances

Sierra Leone: Revenue in the Smart Appliances market is projected to reach US\$*****k in ****. Definition: Smart Appliances market

Jun 28, 2026

Sierra Leone Smart Energy Market (2025-2031) | Value & Competitive ...

Market Forecast By Component (Hardware and Equipment, Solution and Service), By Product (Smart Grid, Digital Oilfield, Smart

Mar 11, 2026

Internet Access to Increase in Sierra Leone as Starlink Shows up

Internet access is expected to increase in Sierra Leone as the West African nation has now become only the 5th

Mar 15, 2026

APO Group

The Government of Sierra Leone, through the Ministry of Communications, Technology and Innovation, has signed a

Nov 21, 2025

All Internet Providers in Sierra Leone

The Complete list of internet companies in Sierra Leone, Freetown and other regions provides Satellite & VSAT, Business Internet,

Mar 19, 2026

Sierra Leone Signs \$50M SMART Project Deal with China, Boosting

The signing took place on the margins of the FOCAC Summit in Beijing, marking a significant step forward in Sierra

Contact Us

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