

Sub-Saharan Africa's Green Economy Boom: Critical Minerals, Green Hydrogen

Environment & Economy · Answer Key · 16 Questions

1. Which Sub-Saharan African nation is a significant player in the emerging green hydrogen market, with several large-scale projects like the Aman and Nour projects, and an ambitious target for green hydrogen production?

- A) Nigeria
- B) Kenya
- C) Mauritania**
- D) Ethiopia

2. In 2023, renewable energy investment in Africa constituted what approximate percentage of the global total, and what is the African Union's target for renewable energy generation by 2030?

- A) 1.5%, 200 GW
- B) 2.3%, 300 GW**
- C) 0.8%, 150 GW
- D) 3.5%, 400 GW

3. What percentage of adaptation finance in Sub-Saharan Africa in 2023 originated from public sources, and what was the approximate contribution of the private sector to this adaptation funding?

- A) 70% public, 30% private
- B) 95% public, 5% private**
- C) 85% public, 15% private
- D) 60% public, 40% private

4. Sub-Saharan Africa holds approximately what percentage of the world's proven critical mineral reserves, and what is the projected increase in demand for lithium between 2022 and 2050?

- A) 10%, tenfold**
- B) 30%, double
- C) 50%, triple
- D) 20%, fivefold

5. Which of the following African countries is identified as a 'front runner' in developing its hydrogen economy, having published hydrogen strategies and initiated project development, according to a 2024 country clustering analysis?

- A) Tanzania
- B) Angola
- C) South Africa**
- D) Ghana

6. In 2023, tourism in Africa reached what percentage of pre-COVID-19 international arrival levels, and what is the projected contribution of the tourism sector to the continent's GDP by the end of 2024?

- A) 90%, \$150 billion
- B) 96%, \$168 billion**
- C) 92%, \$145 billion
- D) 98%, \$175 billion

7. The mining sector in Sub-Saharan Africa was valued at over USD 108 billion in 2023, and for the region's 15 most mineral-rich countries, it accounted for what average percentage of GDP in 2021?

- A) 5%
- B) 10%**
- C) 15%
- D) 20%

8. Despite its vulnerability to climate change, Africa currently captures only what percentage of the global carbon credit industry, which is projected to grow significantly by 2030?

- A) 2%
- B) 5%
- C) 10%
- D) 16%**

9. What is the primary challenge hindering the rapid scaling up of renewable energy investments in Sub-Saharan Africa, despite its vast potential?

- A) Lack of skilled labor
- B) Limited natural resources
- C) The financing gap**
- D) High operational costs

10. According to the IMF, what is the estimated annual adaptation finance needed for Sub-Saharan Africa, and what was the approximate amount of adaptation finance that flowed to the region in 2023?

A) \$51 billion needed, \$12.9 billion received

B) \$30 billion needed, \$10 billion received

C) \$40 billion needed, \$15 billion received

D) \$60 billion needed, \$11 billion received

11. In 2023, renewable energy investment in Africa represented 2.3% of the global total. This share is lower than the region's share of global electricity generation, which is approximately what percentage?

A) 1.5%

B) 3%

C) 5%

D) 7%

12. Which of the following is a key barrier to private sector investment in climate adaptation projects in Africa, making them 'less bankable' for private investors?

A) High government subsidies

B) Projects are typically large-scale and highly profitable

C) Projects tend to be smaller, localized, long-term, and without standard metrics or predictable returns

D) Lack of demand for adaptation solutions

13. What is the projected impact of climate change on cereal yields in Sub-Saharan Africa by 2050, according to some studies, in terms of percentage decline compared to a scenario without climate change?

A) 1%

B) 3.2%

C) 5%

D) 10%

14. The Africa Carbon Markets Initiative (ACMI) aims to produce how many carbon credits annually by 2030, signaling a significant expansion in the continent's role in climate mitigation markets?

A) 100 million

B) 300 million

C) 500 million

D) 1 billion

15. As of 2023, Africa had approximately how much renewable energy capacity, representing what fraction of the global total?

A) 100 GW, 2.5%

B) 62 GW, 1.6%

C) 80 GW, 2.0%

D) 50 GW, 1.2%

16. Which Sub-Saharan African country is leading in the development of green hydrogen, with a \$10 billion project led by Hyphen Hydrogen Energy expected to produce 350,000 tonnes per annum?

A) South Africa

B) Kenya

C) Namibia

D) Botswana