Affordable and clean energy

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AFRICA REGIONAL FORUM ON SUSTAINABLE DEVELOPMENT
Transformation towards sustainable and resilient societies in Africa

ACHIEVING SDG7 IN AFRICA

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CURRENT STATUS

Most of the continent is **unlikely** to achieve SDG 7

Due to population growth, roughly the same number of people are likely to be without access to electricity in 2030 as in 2016 (**590 million**).

Average per capita consumption in sub-Saharan Africa **remains the lowest** in the world.

**846 million** people without access to clean cooking in 2015, and the number will reach **900 million** by 2030 based on current policies.

**Renewable electricity capacity** accounts for **23%** of total in 2016, driven mainly by developments in **wind, solar PV, geothermal** and **large hydropower**.

**Energy intensity** remains high

Approximately **US$ 34.2 billion per year** are needed to ensure the attainment of SDG 7 in Africa by 2030
Achieving SDG7 in Africa

SDG 7.1: By 2030, ensure universal access to affordable, reliable and modern energy services

SDG7 Target 7.1.1: Proportion of population with access to electricity

- **Electrication rate (%)**
  - Latin America and the Caribbean: 97% (1990), 92% (2016)
  - West Asia: 47% (1990), 92% (2016)
  - Asia Pacific: 97% (1990), 92% (2016)
  - Africa: 97% (1990), 92% (2016)

- **Population (million)**
  - Latin America and the Caribbean: 600 (1990), 1200 (2016)
  - West Asia: 400 (1990), 1200 (2016)
  - Asia Pacific: 600 (1990), 1200 (2016)
  - Africa: 600 (1990), 1200 (2016)

590 million people without access in 2016

Rate of Electricity Access in Selected Countries

- Chad: 20% (2016)
- Gabon: 90% (2016)
- Ethiopia: 50% (2016)
- Sudan: 20% (2016)
- Benin: 60% (2016)
- Senegal: 80% (2016)
- Ghana: 60% (2016)
- Kenya: 40% (2016)
- Guinea: 10% (2016)
- Mali: 20% (2016)
- Cabo Verde: 50% (2016)
- Botswana: 40% (2016)
- Cameroon: 60% (2016)
- Equatorial Guinea: 50% (2016)
- Nigeria: 40% (2016)
- Comoros: 20% (2016)
- Swaziland: 50% (2016)

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SDG 7.1: By 2030, ensure universal access to affordable, reliable and modern energy services

SDG7 Target 7.1.2: Proportion of population with primary reliance on clean fuels and technology

Share of population without access to clean cooking fuels and technologies

Number of people using CFTs 2000-2014

846 million people without access in 2015

SDG 7.1: By 2030, ensure universal access to affordable, reliable and modern energy services

846 million people without access in 2015
SDG 7.2: By 2030, increase substantially the share of renewable energy in the global energy mix

**SDG7 Target 7.2.1: Renewable energy share in the total final energy consumption**

- **Share of traditional renewable energy consumption in TFEC in 2014 (%)**
- **Share of modern renewable energy consumption in TFEC in 2014 (%)**
- **Regional average share of modern renewable energy consumption in TFEC**
- **Regional average share of renewable energy consumption in TFEC**
Achieving SDG7 in Africa

SDG 7.3: By 2030, double the global rate of improvement in energy efficiency

SDG7 Target 7.3.1: Energy intensity measured in terms of primary energy and GDP

![Graph showing annual change and energy intensity over time]

**Annual Change (%) in Energy Intensity**

**Energy Intensity (MJ/USD PPP2011)**

**Key Points:**
- By 2030, double the global rate of improvement in energy efficiency.
- SDG7 Target 7.3.1 focuses on energy intensity measured in terms of primary energy and GDP.
- The graph illustrates the annual change in energy intensity and energy intensity values from 1990 to 2014.

**Milestones:**
- 1990: 7.5 MJ/USD PPP2011
- 2000: 7.0 MJ/USD PPP2011
- 2010: 6.5 MJ/USD PPP2011
- 2014: 6.0 MJ/USD PPP2011

**Notes:**
- The graph shows a decreasing trend in energy intensity and annual change, indicating progress towards the SDG7 target.

**Source:** www.uneca.org/arfsd2018
KEY MESSAGES AND PRIORITY ACTIONS

- **Put in place** coherent policies and an enabling environment to leverage limited public resources
- **Address** data gaps and reliability (especially on biomass)
- **Develop** in-country human and institutional capacities
- **Ensure** that climate resilience is fully integrated into the planning and implementation of energy infrastructure and investments
- **Promote** sharing of good practices and experiences with both on-grid and off-grid systems
- **Systematically prioritize** energy efficiency across all sectors
- **Promote** investments in strengthening the grid for greater efficiency and increased penetration of variable renewable power, and promote cross-border interconnections to accelerate access to electricity
- **Promote** local content enhancement across the full renewable energy value chain
- **Accelerate** efforts to encourage innovation
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Thank You

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