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MASTER CLASS

7 AFFORDABLE AND  
CLEAN ENERGY



# Affordable and Clean Energy





## 7 AFFORDABLE AND CLEAN ENERGY



**9** OUT OF **10** PEOPLE WORLDWIDE  
HAVE ACCESS TO ELECTRICITY 



**87%**  
= OF THE =  
**840 MILLION**  
PEOPLE WITHOUT  
ELECTRICITY LIVE IN  
**RURAL AREAS**



**7** AFFORDABLE AND  
CLEAN ENERGY



**Ensure access to  
affordable, reliable,  
sustainable and  
modern energy for all**





### Key Findings of the Tracking SDG 7: Energy Progress Report for 2020

2010		Latest Data
<b>1.2 billion</b> people without access to electricity		<b>789 million</b> people without access to electricity (2018)
<b>3 billion</b> people without access to clean cooking		<b>2.8 billion</b> people without access to clean cooking (2018)
<b>16.3%</b> share of total final energy consumption from renewables		<b>17.3%</b> share of total final energy consumption from renewables (2017)
<b>5.9 MJ/USD</b> primary energy intensity		<b>5.0 MJ/USD</b> primary energy intensity (2017)
<b>10.1 USD billion</b> international financial flows to developing countries in support of clean energy		<b>21.4 USD billion</b> international financial flows to developing countries in support of clean energy (2017)

The UN explains: "Energy is central to nearly every major challenge and opportunity the world faces today. Be it for jobs, security, climate change, food production or increasing incomes, access to energy for all is essential.

Transitioning the global economy towards clean and sustainable sources of energy is one of our greatest challenges in the coming decades. Sustainable energy is an opportunity – it transforms lives, economies and the planet."

Nevertheless, more focused attention is needed to improve access to clean and safe cooking fuels and technologies for 3 billion people, to expand the use of renewable energy beyond the electricity sector, and to increase electrification in sub-Saharan Africa.





## FACTS AND FIGURES:

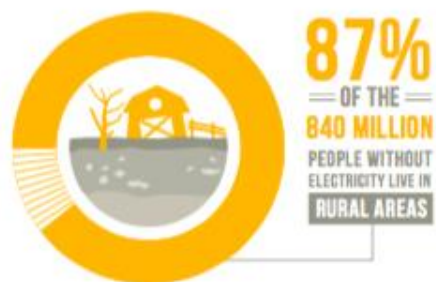
- 13 percent of the global population still lacks access to modern electricity.
- 3 billion people rely on wood, coal, charcoal or animal waste for cooking and heating
- Energy is the dominant contributor to climate change, accounting for around 60 per cent of total global greenhouse gas emissions.
- Indoor air pollution from using combustible fuels for household energy caused 4.3 million deaths in 2012, with women and girls accounting for 6 out of every 10 of these.
- In 2016, the share of renewables increased at the fastest rate since 2012, up 0.24 percentage points, and reached almost 17.5per cent owing to rapid growth in hydropower, wind, and solar.



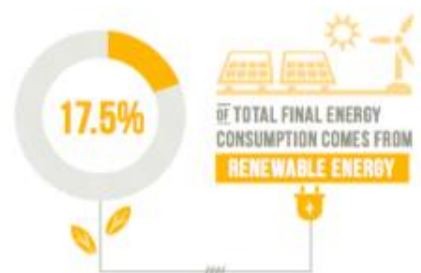
7 AFFORDABLE AND CLEAN ENERGY

## ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY FOR ALL

9 OUT OF 10 PEOPLE WORLDWIDE HAVE ACCESS TO ELECTRICITY



ON AVERAGE, 2.3% LESS ENERGY WAS NEEDED TO CREATE \$1 OF ECONOMIC OUTPUT EACH YEAR (2010-2016)



3 BILLION PEOPLE LACK CLEAN COOKING FUELS AND TECHNOLOGY

7 AFFORDABLE AND CLEAN ENERGY

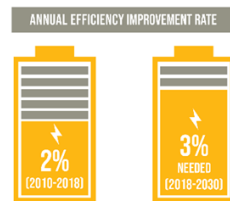
## ENSURE ACCESS TO AFFORDABLE, RELIABLE, SUSTAINABLE AND MODERN ENERGY FOR ALL

ONE THIRD OF THE WORLD'S POPULATION USE DANGEROUS AND INEFFICIENT COOKING SYSTEMS (2019)



759 MILLION PEOPLE LACK ACCESS TO ELECTRICITY  
3 OUT OF 4 OF THEM LIVE IN SUB-SAHARAN AFRICA (2019)

ENERGY EFFICIENCY IMPROVEMENT RATE NEEDS ACCELERATION



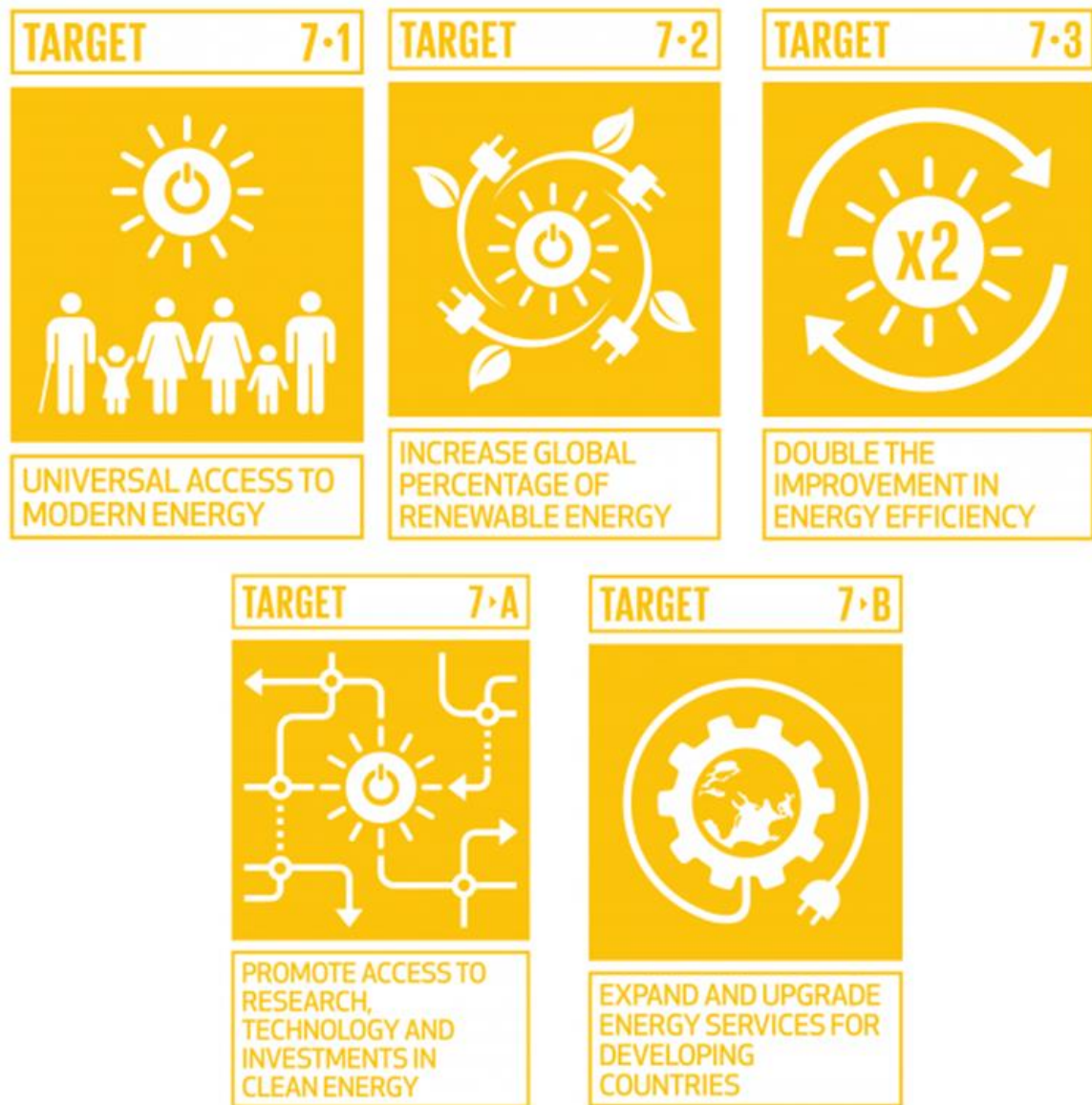
ACCELERATED ACTION ON MODERN RENEWABLE ENERGY IS NEEDED — ESPECIALLY IN HEATING AND TRANSPORT SECTORS

MODERN RENEWABLE SHARE OF TOTAL FINAL ENERGY CONSUMPTION (2018)



THE SUSTAINABLE DEVELOPMENT GOALS REPORT 2021: UNSTATS.UN.ORG/SDGS/REPORT/2021/





**TARGETS**

Figure 8.1. Key targets for SDG 7  
Source: <https://www.globalgoals.org/>



## TARGETS :

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

**7.2** By 2030, increase substantially the share of renewable energy in the global energy mix

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

**7.A** By 2030, enhance international cooperation to facilitate access to clean energy research and technology, including renewable energy, energy efficiency and advanced and cleaner fossil-fuel technology, and promote investment in energy infrastructure and clean energy technology

**7.B** By 2030, expand infrastructure and upgrade technology for supplying modern and sustainable energy services for all in developing countries, in particular least developed countries, small island developing States, and land-locked developing countries, in accordance with their respective programmes of support







**“ENERGY SERVES YOU THE  
WAY YOU DESERVE”**

**14<sup>TH</sup> DECEMBER 2017  
NATIONAL ENERGY CONSERVATION DAY**



How do we achieve the  
**#GlobalGoals** by 2030?

-  Mobilize everyone, everywhere
-  Demand urgency and ambition
-  Design new innovations and solutions



**SUSTAINABLE DEVELOPMENT GOALS**

17 GOALS TO TRANSFORM OUR WORLD







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+



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+



Entrepreneurship

=



Social Impact

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