7 AFFORDABLE AND CLEAN ENERGY

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

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

7.1.1 Proportion of population with access to electricity.

7.1.2 Proportion of population with primary reliance on clean fuels and technology.

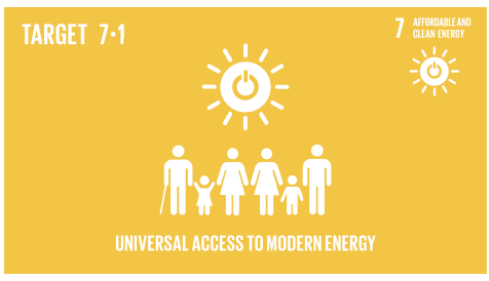
7.2 By 2030, increase substantially the share of renewable energy in the global energy mix

7.2.1 Renewable energy share in the total final energy consumption.

## WHAT IS IT?

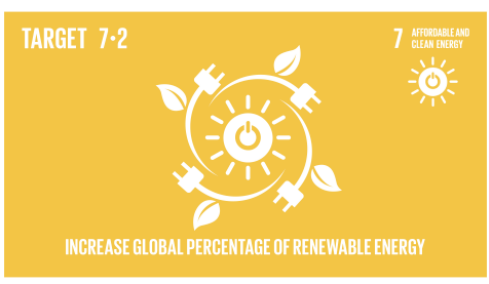

Under Sustainable Development Goal 7 (SDG 7), addressing critical aspects of global energy access and sustainability. Target 7.1 delves into the proportion of the population with electricity access, differentiating between urban and rural areas, shedding light on disparities in electrification. Additionally, it examines the population's reliance on clean fuels and technology, emphasizing the shift away from polluting energy sources. Target 7.2 zooms in on the renewable energy sector, specifically analyzing the share of renewable sources in the total final energy consumption. Overall, the study comprehensively explores the challenges and advancements in ensuring universal, sustainable, and clean energy access for all, crucial for global socio-economic development and environmental preservation.

## 7.1




By 2030, achieving universal access to affordable, reliable, and modern energy is a pivotal Sustainable Development Goal. This commitment signifies a global effort to eradicate energy poverty, fostering societal empowerment and sustainable development worldwide.

## 7.2




By 2030, a crucial objective is significantly boosting renewable energy's global share. This imperative shift from fossil fuels underscores environmental preservation, energy security, and vital climate change mitigation

| | TimePeriod | Target | GeoAreaCode | Value | Time_Detail |
|---|---|---|---|---|---|
| 2000 | 7.1 | 356.0 | 64.902607 | 2000.0 | |
| 2001 | 7.1 | 356.0 | 62.294527 | 2001.0 | |
| 2002 | 7.1 | 356.0 | 67.859167 | 2002.0 | |
| 2003 | 7.1 | 356.0 | 69.304683 | 2003.0 | |
| 2004 | 7.1 | 356.0 | 69.637867 | 2004.0 | |

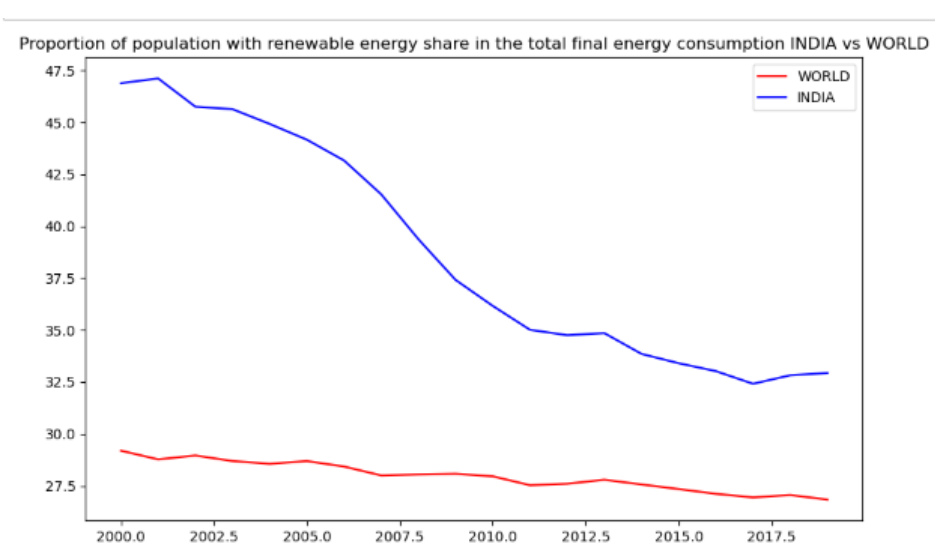
## PROPORTION OF POPULATION WITH ACCESS TO ELECTRICITY IN INDIA:

The years 2000 to 2020, specific to a particular country, reveals a positive trend in improving access to electricity. The annual data indicates a gradual increase in the proportion of the population with electricity access, ranging from approximately 62% in 2001 to 99.15% in 2020.

## PROPORTION OF POPULATION WITH ACCESS TO ELECTRICITY IN THE WORLD AND DURING COVID

The proportion of the population with access to electricity steadily increased, reaching 85.82% in 2020. This positive trajectory signifies global efforts in expanding electricity infrastructure, ensuring reliable access even amid challenges like the COVID-19 pandemic.

| | TimePeriod | Target | GeoAreaCode | Value | Time_Detail |
|---|---|---|---|---|---|
| 16 | 2016 | 7.1 | 432.568807 | 83.327344 | 2016.0 |
| 17 | 2017 | 7.1 | 432.568807 | 83.655375 | 2017.0 |
| 18 | 2018 | 7.1 | 432.568807 | 83.611789 | 2018.0 |
| 19 | 2019 | 7.1 | 432.568807 | 84.308525 | 2019.0 |
| 20 | 2020 | 7.1 | 432.568807 | 85.816979 | 2020.0 |




India and the world concerning the share of renewable energy in total final energy consumption from 2000 to 2019. In India, the proportion remained relatively stable, fluctuating between 46.88% and 32.93%, indicating a consistent reliance on non-renewable energy sources. Conversely, the global scenario, represented by the world data, shows a consistently lower but gradually declining share of renewable energy, decreasing from 29.19% in 2000 to 26.88% in 2019. This suggests that while both India and the world rely heavily on non-renewable energy, the global trend indicates a slow decrease in renewable energy utilization, emphasizing the need for intensified efforts globally to transition towards more sustainable energy sources.