Energy access outlook
From poverty to prosperity

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Electricity access for all remains elusive,

Latest WEO estimates show that 1.2 billion people still don’t have access to electricity

Source: IEA World Energy Outlook analysis
but progress is seen in all world regions

Access to electricity, 2014

- As projected in WEO-2004
- Latest estimate

Population without electricity access, 2000-2014

- Sub-Saharan Africa
- India
- Other Asia
- ASEAN
- Other

Renewed policy commitment, new business models and improving technology costs for decentralized renewables are coming together to improve progress
Access for all is within reach, and renewables are key.

Currently planned policies fall short of meeting universal access to electricity, but 2 billion gain access through 2040 with a variety of sources.
Climate policies can also help unlock energy access

Cost reductions for low-carbon technologies in 2030 in a low-carbon scenario

Sources of generation for achieving universal access to electricity

- Battery
- Off-grid solar PV
- Solar PV utility
- Wind

Decentralised
Centralised

Source: IEA World Energy Outlook, 2016

Bringing the world on track to 2°C enables cost reductions in low-carbon technologies which can unlock greater energy access, especially with decentralised solutions
Different pathways to energy for all: Mapping universal access

Optimum split by grid type, based on anticipated expansion of main transmission lines

**Nigeria**

Access type:
- On-grid
- Mini-grid
- Off-grid

Power Plants:
- Operating
- Under construction
- Planned or under construction

**Ethiopia**

Transmission lines (133 kV):
- Existing
- Planned

Source: *Africa Energy Outlook*, 2014; IEA in collaboration with the KTH Royal Institute of Technology, division of Energy Systems Analysis.

*Path to modern energy not one-size-fits-all: energy resources are widespread, but human, financial & regulatory resources are not*
IEA has a long history in this area; including connecting across agendas (renewables, digitalisation, capacity building etc.)

Energy Access Outlook will:

- Include updated country-by-country energy access estimates and outlook
- Present a strategy on how to achieve modern energy access for all by 2030 (by region, technology, fuel, levels of investment etc.)
- Examine how energy development can unleash productive economic activity, serving to accelerate economic growth
- Analyse the intersection between energy access and other critical issues, such as health, the environment & gender

Launch of the report: **19 October 2017**