



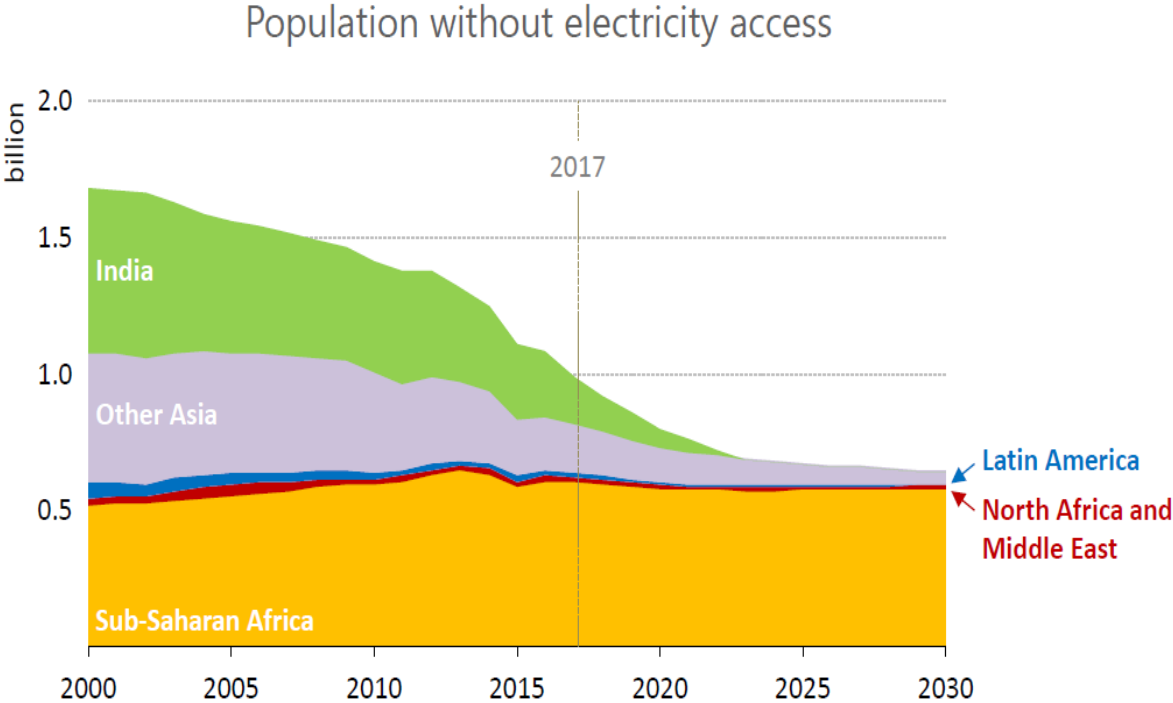
# Improving access to clean energy services

The role of digitalisation & international standards

22 June 2021

Vida Rozite, Digitalisation programme manager

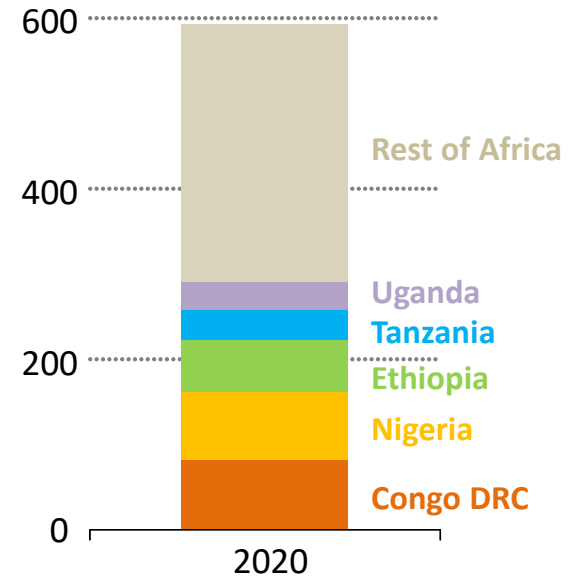
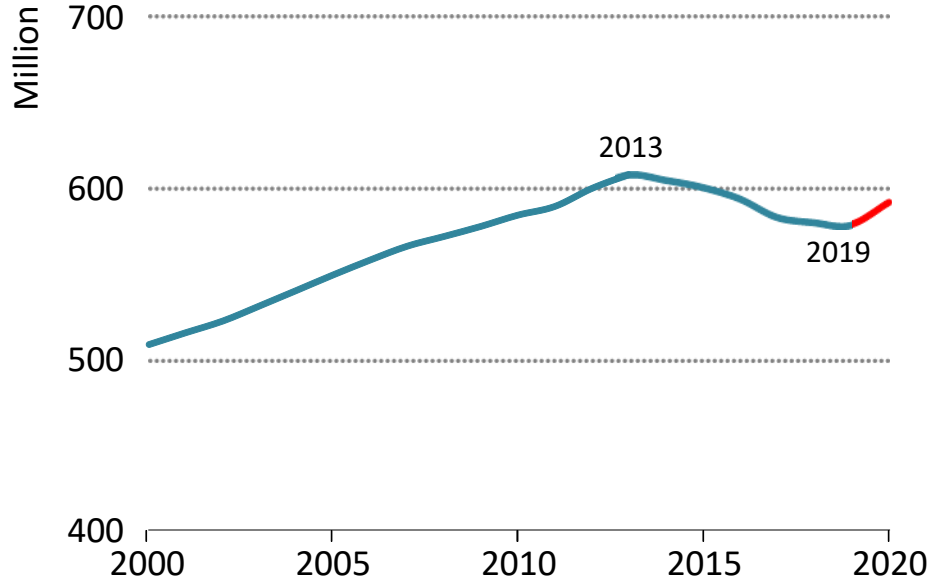
# Energy access – efforts still needed



**Energy access is the “golden thread” that weaves together development, economic growth & sustainability. Despite recent progress, efforts in sub-Saharan Africa need to accelerate**

# The poorest feel the worst effects of the pandemic

Population without access to electricity in Africa

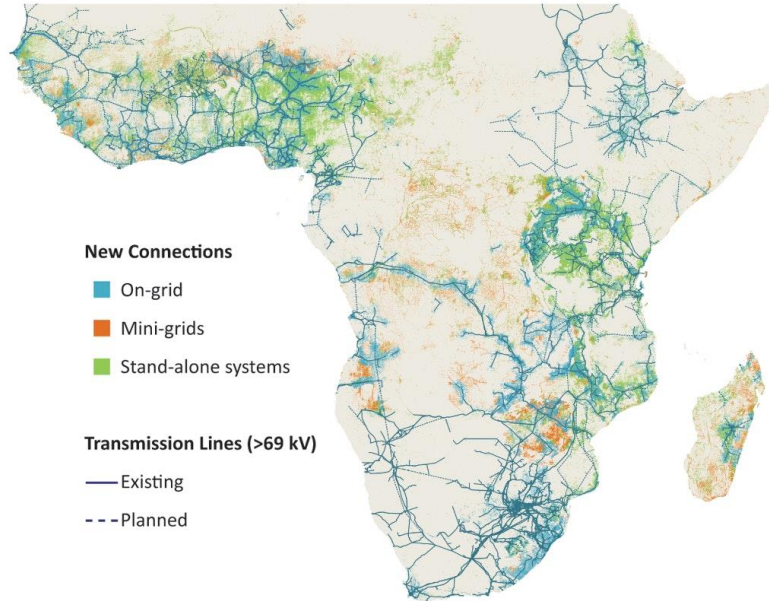


Source: IEA, WEO 2020

**The number of people without electricity access is rising in 2020, and five countries make up half of the total in Africa. An additional 30 million people connected today could no longer afford basic services**

# IEA's strategy to universal electricity access in Africa by 2030

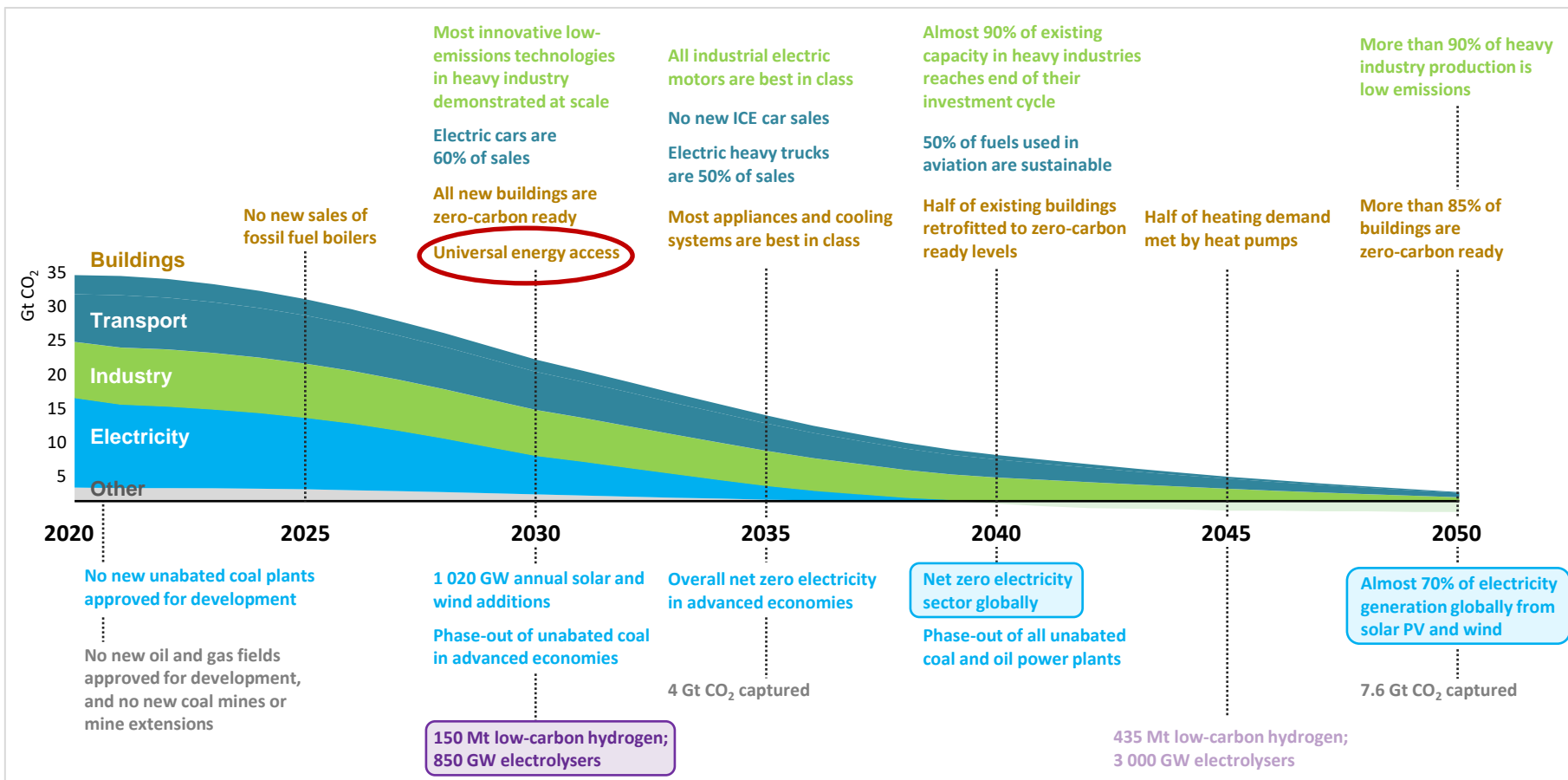
Least-cost solution for delivering universal electricity access in sub-Saharan Africa by 2030



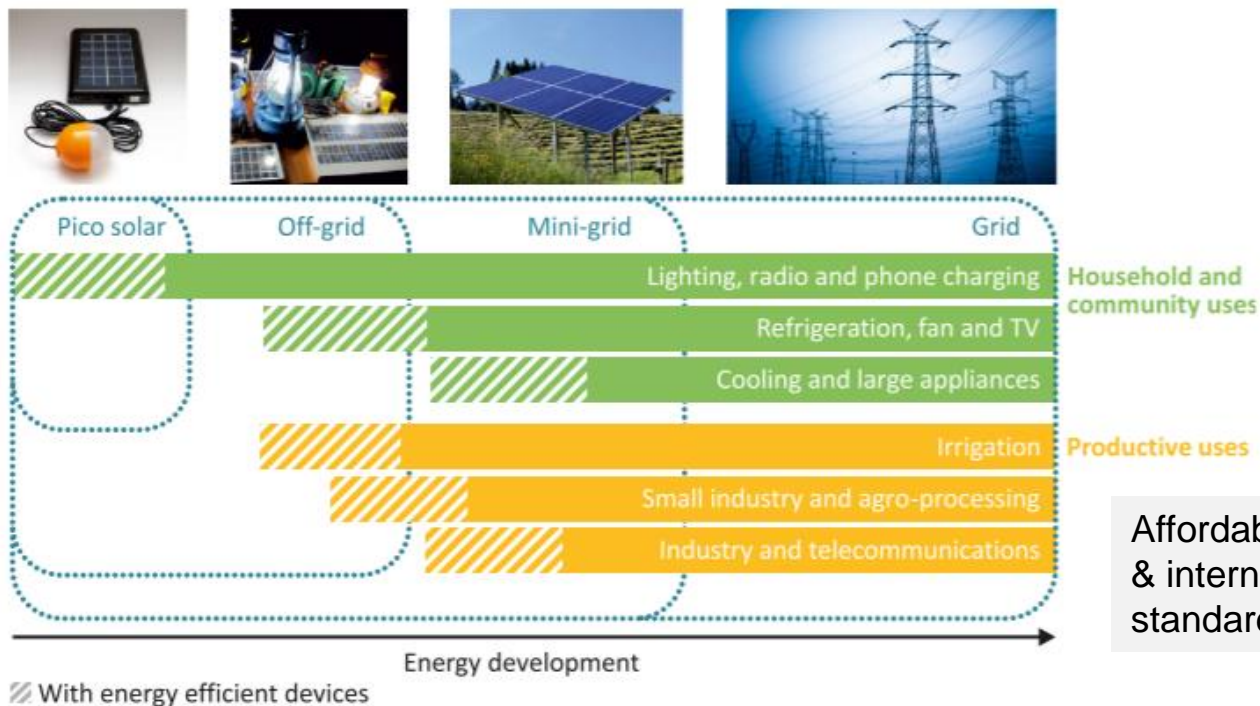
- Grid extension for 210 million additional people, with hydro accounting for most
- Decentralised solutions, mainly solar PV, for the remaining 370 million people in rural areas
- An additional \$18 billion per year is needed in electricity generation and grids

**In 2030, 90% of those without access in sub-Saharan Africa are in rural areas; electricity for all needs an acceleration in the deployment of decentralised systems**

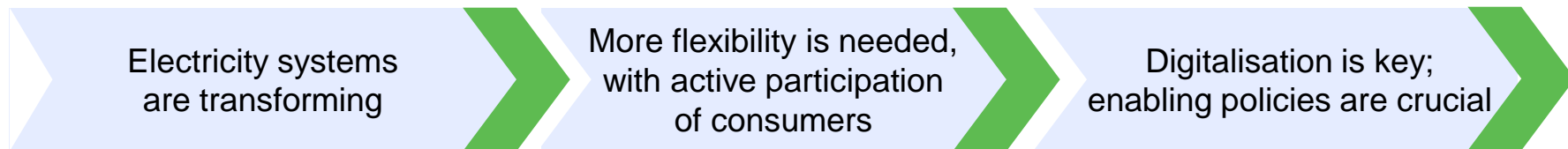
# Milestones on the path to Net Zero by 2050



# Paradigm shift: integrating solutions will be central for providing access



**The falling cost of technology and energy efficiency gains in end-use devices has increased the number of affordable options for those at the lowest levels of energy use**



- **Digitalisation** can help leverage opportunities:
  - Create a more interconnected and responsive electricity system
  - Support carbon emissions reduction
  - Help to minimise system cost and need for new investment
  - Improve stability, resilience and security

## **Digital Demand-Driven Electricity Networks Initiative (3DEN)**

The IEA is providing actionable guidance to policy makers on the policy, regulatory, technology and investment context needed to accelerate progress on power system **modernisation** and effective **utilisation** of demand side resources.

# IEA's Global Commission on People-Centred Clean Energy Transitions

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## Emerging themes:

- Maximising and articulating the socio-economic benefits of clean energy transitions
- Addressing the effects of transitions on workers and communities
- Understanding the best policy and financing options to support those affected negatively
- Developing high-quality jobs for a sustainable future
- Enhancing energy access and energy security for the most under-served and vulnerable
- Ensuring policies are equitable
- Taking account of gender equality and social inclusion
- Understanding the role of well-designed behavior change policies
- Maintaining public support for clean energy transitions

Digitalisation challenges  
& risks need to be  
addressed