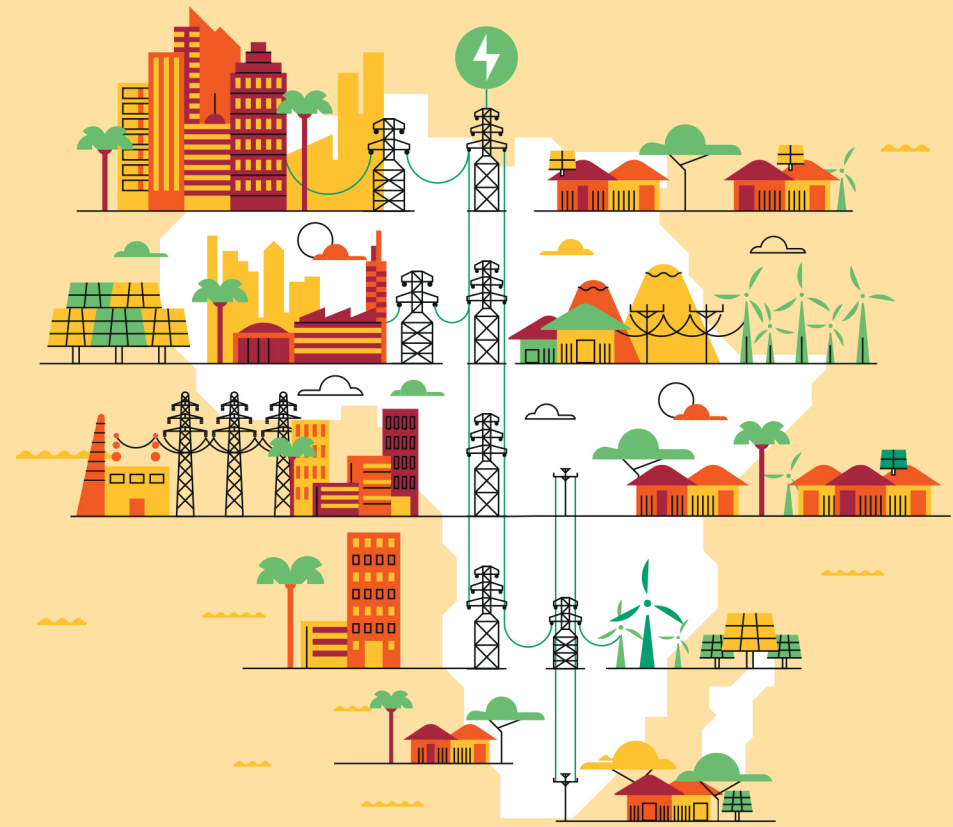


# Empowering Africa

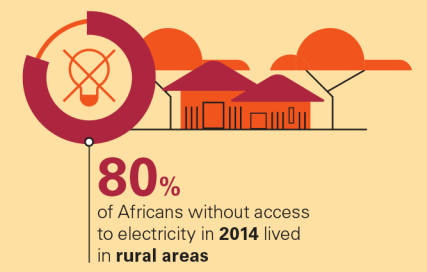
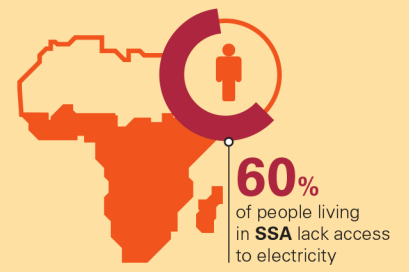
Access to power in the african continent



## The electrification challenge in Africa

### Africa today: demography and access to electricity

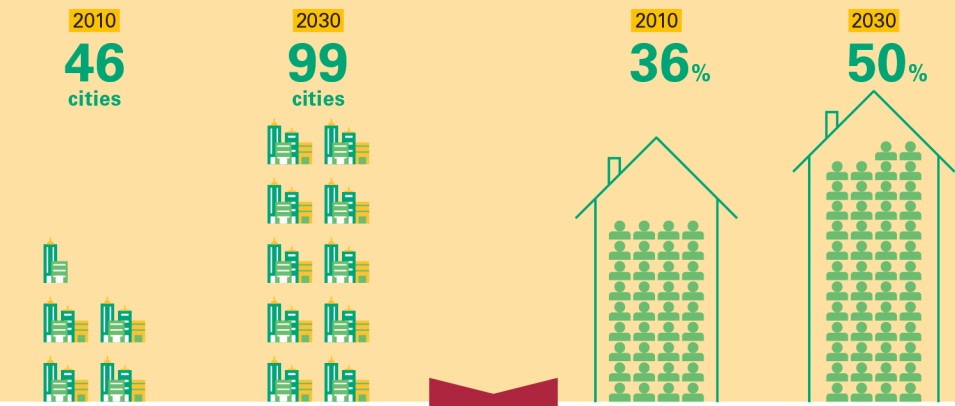
Sources: United Nations Economic Commission for Africa UN World Population prospects 2017 | UN Sustainable Development report (2018) | Africa Energy Outlook, IEA 2014



### Urbanization & demographic trends

■ cities with **over 1 million** habitants Source: UN World Urbanization Prospects: The 2018 Revision

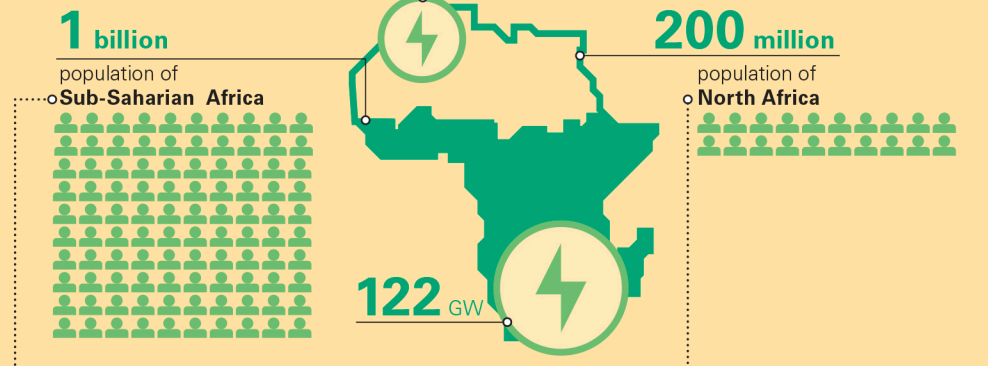
■ total African population living in cities Source: 2016 African Development Outlook



## African electricity landscape

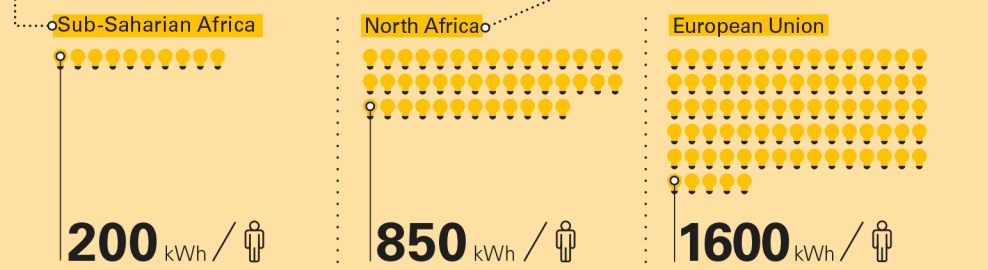
### Installed capacity

Aggregate capacity by sub region Source: World Energy Council 2017



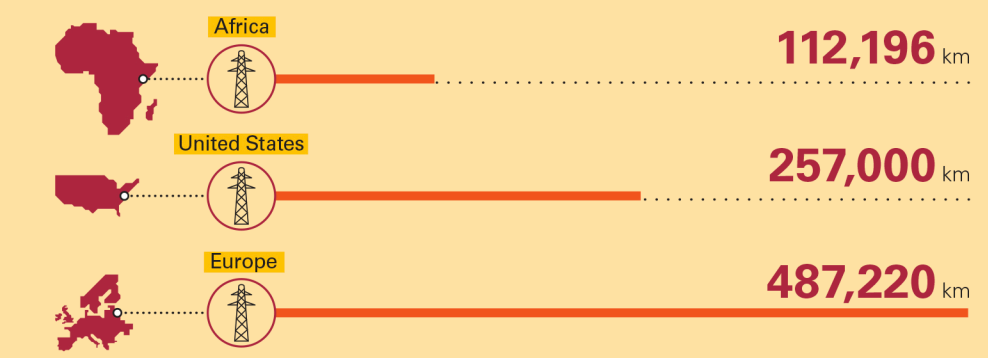
### Electricity consumption

Comparison on yearly electricity consumption per capita Source: IEA 2017



### Networks

Territory vs kms of electricity grid Sources: World Bank: Linking Up: Public-Private Partnerships in Power Transmission in Africa | Entso-E 2017



**Empowering Africa**  
Access to power in the African continent

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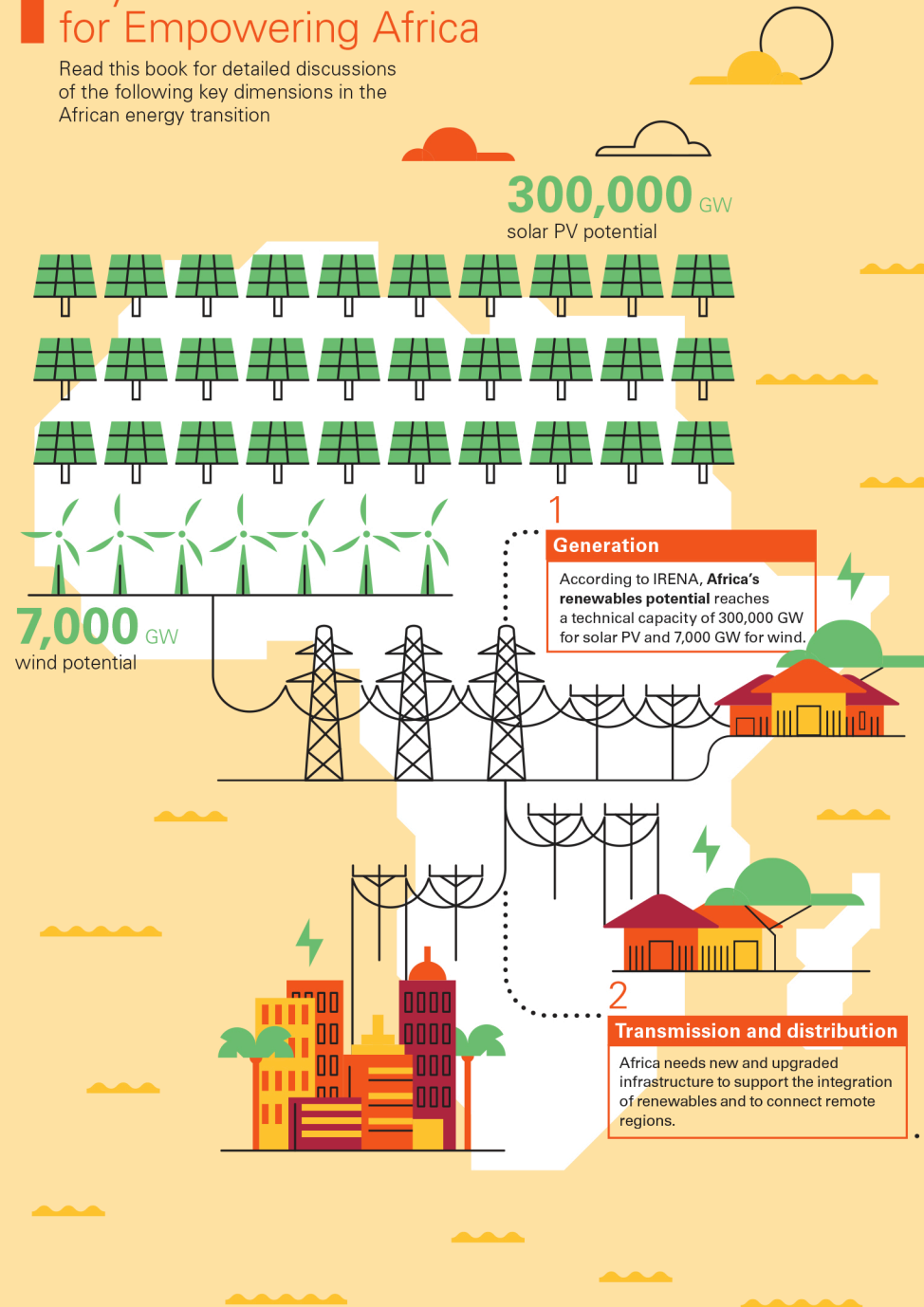


[www.enelfoundation.org](http://www.enelfoundation.org)

Access to electricity is a key factor for the future of the African continent. Energy poverty and lack of universal access to electricity services are, in fact, remarkably hurting human progress in Africa. Today, sub-Saharan Africa hosts 14 percent of the world's population but 60 percent of the world's people without access to electricity: of the more than 1 billion people globally who had no access to electricity, around 600 million lived in the region. In these conditions, many African countries are unable to develop a solid economy or provide basic health and education services to their citizens. Starting from the analysis of present and future economic, demographic, social and technological trends, Empowering Africa offers an in-depth assessment of the current status and of the future prospects of access to electricity in the African continent. The volume describes the main developments in the Africa's electricity sector, addressing the issue both from a regional and a thematic point of view, and attempting to define the key trends of a sector that will necessarily contribute to shape the continent's political, social and economic dynamics for the next decades.

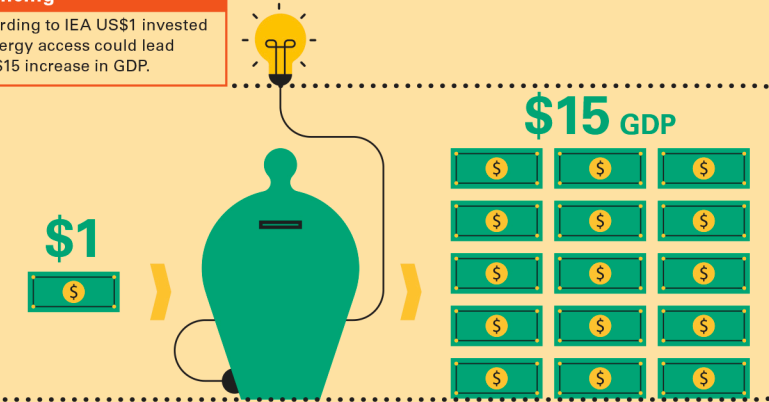
## Key dimensions for Empowering Africa

Read this book for detailed discussions of the following key dimensions in the African energy transition



### 3 Financing

According to IEA US\$1 invested in energy access could lead to a \$15 increase in GDP.



### 4 Rules of the game

#### Rules of the game

Clear policy framework and robust regulatory environment need to be put in place to encourage stakeholders to make mutually beneficial choices in enlightened self-interest.



#### private investments



### 5 Education

#### Education

Disseminate scientific and technical knowledge is essential to address root causes of energy poverty.

