BUILD BACK BETTER

WHAT WILL IT TAKE TO ACHIEVE A ZERO-CARBON, SUSTAINABLE AFRICAN ECONOMY?

SEA SUSTAINABLE ENERGY AFRICA

FOR GOD AND MY COUNTRY
PARLIAMENT OF UGANDA

World Future Council

REN21

Moderated by
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REN21

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Panelists
Lawrence Biyika Songa
Republic of Uganda,
Lea Ranalder, REN21,
Samia Said,
Washington Fellow

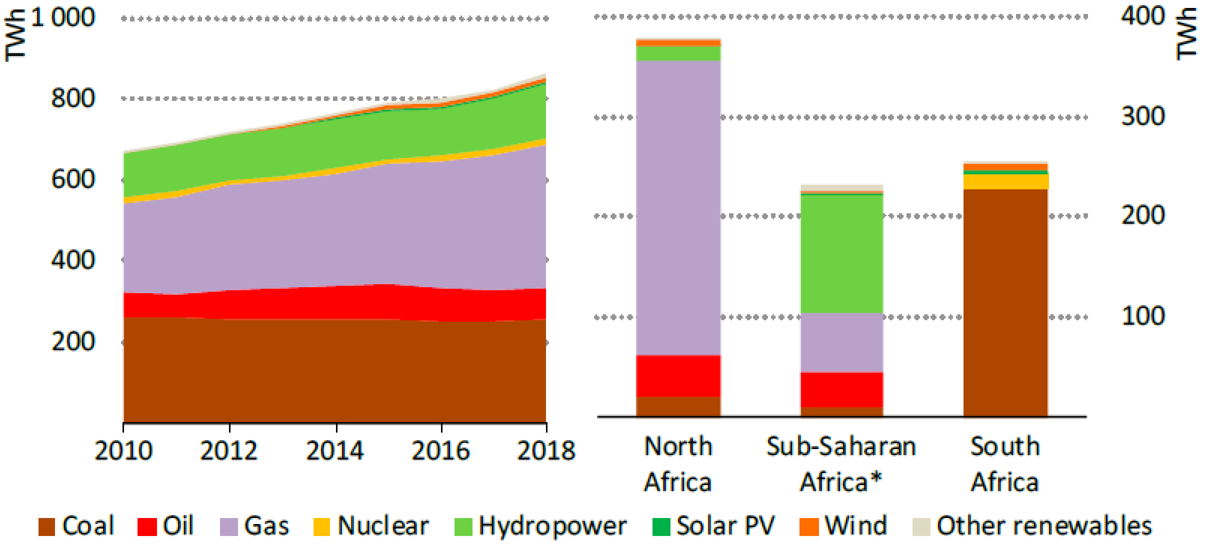
State of renewables in Africa

Joel Nana,
Project Manager
Sustainable Energy Africa, SEA

POWER SUPPLY IN AFRICA

IN 2018:

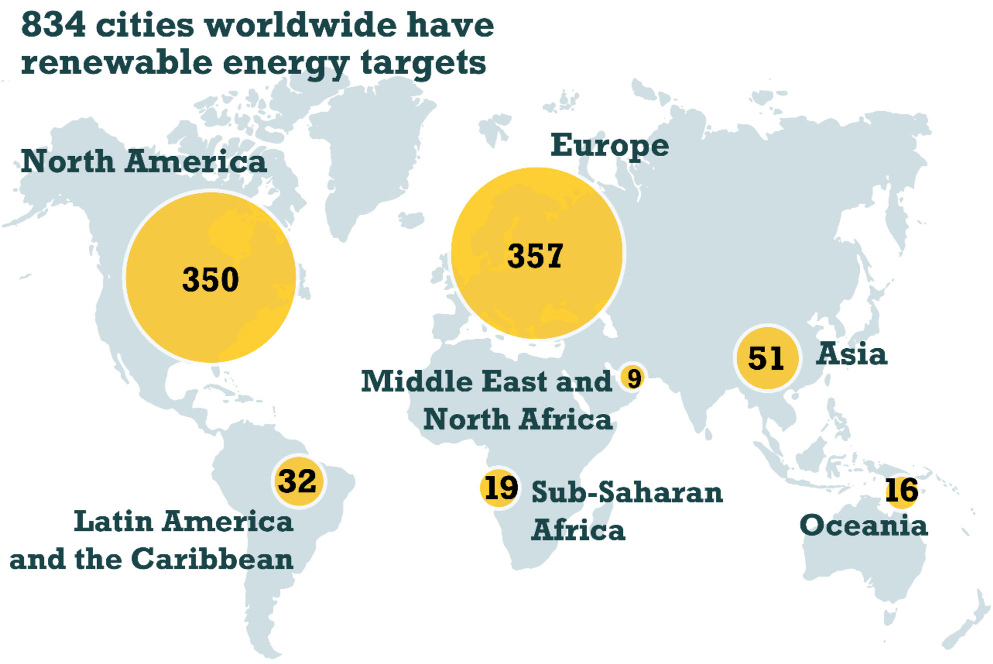
- TOTAL INSTALLED CAPACITY OF 244 GW (20% RE)
- ELECTRICITY GENERATION WAS 870 TWH (19% RE)
- 42% INCREASE IN ELECTRICITY GENERATION FROM RE FROM 2010

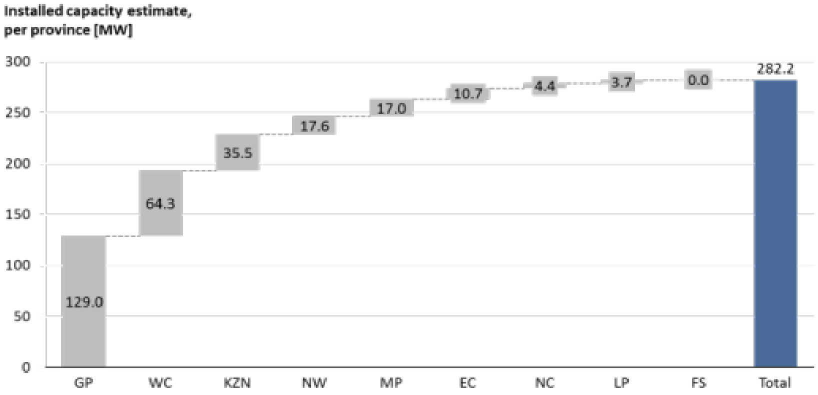


Source: IEA, 2019

RENEWABLES IN CITIES

Renewable Energy Targets in Cities, 2020



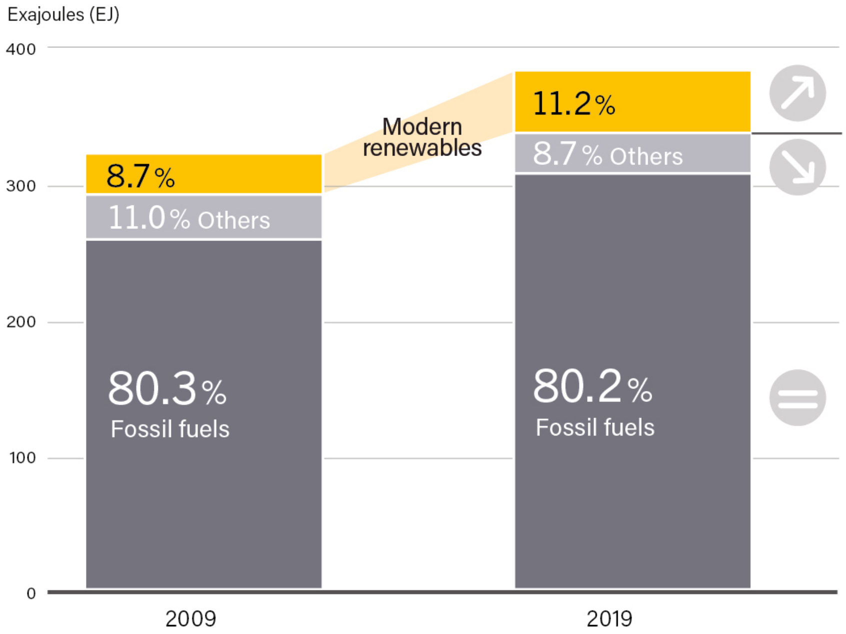


CHALLENGES AND OPPORTUNITIES OF AFRICA'S ENERGY SECTOR

	Challenges	Opportunities
Financing and investments	• High costs inherent to the energy sector • Limited access to funding • Creditworthy utilities/ Insufficient cost recovery • Elastic demand/Affordability • Foreign exchange risk	• Investing in cost reducing technology • Collaborative Investing/Engaging local investors • Alternative financing sources -such as bonds • Increasing partial risk guarantees • Enhanced refinancing opportunities
Policy, regulatory and institutional frameworks	• Lack of competition to networks • One-off PPAs • Inefficient tendering processes • Breach of contracts • Vested interests in established business models • Inability to raise tariffs to cover costs	• Utility unbundling to open up competition • Setting multi-year tariffs - with adjustment clauses • Clear renewable energy targets • Aligning with climate and sustainability targets • Clear and transparent procurement process
Information and technical capacity	• Limited technological capabilities • Weak judicial systems • Non-harmonised regional regulatory frameworks • Bureaucratic procedures • Uneven policies in different countries	• Streamlining public agencies • Education on risk mitigation • Research and development • Strengthening regional capacity and co-operation

A REALITY CHECK

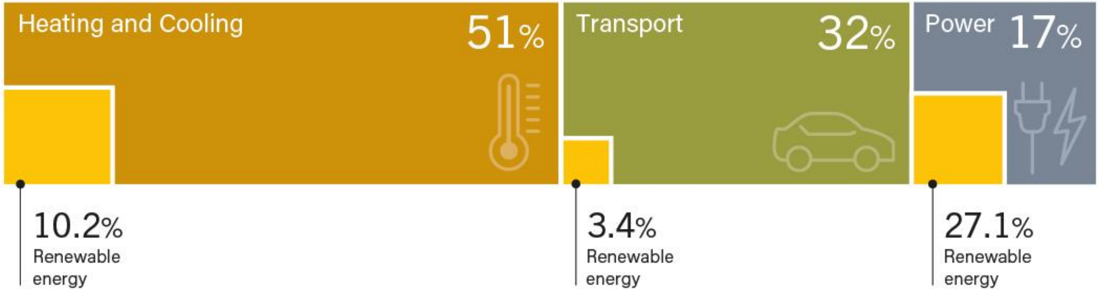
ESTIMATED RENEWABLE SHARE OF TOTAL FINAL ENERGY CONSUMPTION



The share of fossil fuels in final energy demand barely changed over one decade.

DISCONNECT BETWEEN THE SECTORS

RENEWABLE SHARE OF TOTAL FINAL ENERGY CONSUMPTION, BY FINAL ENERGY USE, 2018



Advances are mainly in the power sector

WHAT DO RENEWABLES MEAN TO YOU?

Health
Hydropower
Infrastructure
Trade
Security
Net zero
Regional
Buildings
Wind
Power
Policy
Governance
Ocean
Climate
Environment
Cost
Bioenergy
Energy access
Renewable
Economics
Markets
Geothermal
Cities
Industry
Agriculture
Development
Energy
Transport
Investment
Cooling
Sustainability
Communication
Circularity
Governments
Jobs
Research
Democracy
Community
Efficiency
Technology
Citizens
Solar
Air Pollution
Waste
Acceptance

Thank you to everyone who joined our discussion today.