

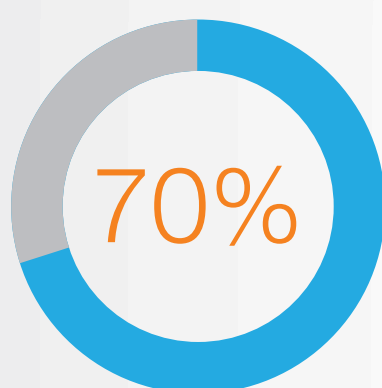
In a world with huge energy potential ABB's strengths can make the difference

Africa is home to some of the most beautiful and abundant resources on Earth. How can we harness this energy to enrich the future of the world's fastest growing continent?



Rich in energy resources

Including enough hydropower to provide energy for 100 times the world's population.



of people are without
access to electricity

That's twice the population of the United States

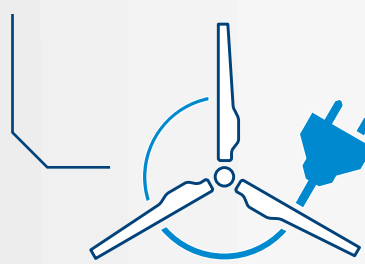


but poor
in energy supply
and infrastructure

New trends on the rise



Microgrid systems provide electricity
to **70%** of those gaining access in
rural areas



50% of the growth
in electricity generation
till 2040 predicted to come
from **renewables**



**However, Africa is
rapidly growing**

- Population
- Economy
- Consumer demand
- Fuel demand
- Transportation infrastructure
- Energy usage
- Electricity demand
- Grid capacity
- Water networks
- World demand for African resources



Huge hydropower
potential in the
Sub-Saharan region

ABB is promoting business growth and a better quality of life

Pioneers in innovative uses of energy resources

In Algeria, ABB provides

- **Unique automation** for a unique **150 MW integrated combined cycle and solar power plant**
- **Hydro mechanical and ICE packages** for the MAO Water Transfer System, a **50 MW pumping station** and
- **EBoP** for the **biggest desalination plant** in the country.

Between 2011 and 2030 Algeria
intends to install around **22,000 MW**
of renewable energy production

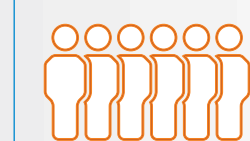
Largest power plant in Sub-Saharan Africa

ABB provides control for the
expansion of the **Azito**
combined-cycle power plant.

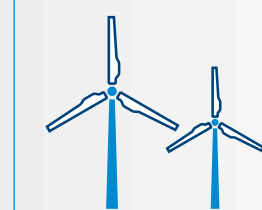


Wind for Prosperity

ABB partnership with Vestas
To jointly deliver power technology
and system integration solutions
to electrify remote communities



Targeted to reach
13 communities
with **200,000 inhabitants**



A new business model to
distribute affordable and
reliable wind generation.

**4800
MW**



Home to the **4th largest
power station in the world**

Kusile is the biggest automation order in the history of ABB

Remote operation & monitoring systems

Eskom 1195 MW in two fixed tilt PV power plants in South Africa

Turnkey solar solution including design, engineering, installation and commissioning at

Witkop 33 MW and Soutpan 31 MW Solar Parks in South Africa

And this is just the beginning...

8 local
manufacturing hubs
on the continent

20 regional sales &
service centers
throughout the
region

5,000
employees of which
1500 are engineers



ABB is supporting economic development
of this growing region with integrated power
and automation solutions for conventional
and renewable-based power generation
plants and water applications.

Sources:

International Energy Agency
Industrial Information Resources
Int Pow
International Rivers

www.iea.org
www.industrialinfo.com
www.intpow.com/index.php?id=487&download=1
www.internationalrivers.org/resources/grand-inga-hydroelectric-project-an-overview-3356

Power and productivity
for a better world™

