

ENERGY CHALLENGES & OPPORTUNITIES IN SUB-SAHARAN AFRICA

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May 13

1

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SUSTAINABLE ENERGY FUTURE

RISING ENERGY DEMAND, SUPPLY PRESSURE, CLIMATE CHANGE



9 billion people, **75%** living in cities

(**2 billion** more than today)



2 billion vehicles

(**800 million** at the moment)



Many **millions** of people will rise out of energy poverty; with higher living standards energy use rises



Energy demand could **double** from its level in 2000.. .. while CO₂ emissions must be **half** today's to avoid serious climate change



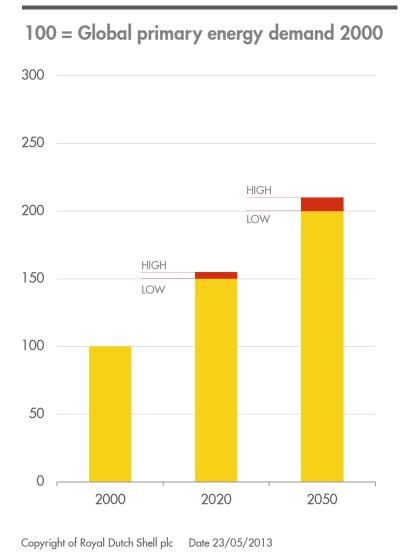
Twice as efficient, using **half** the energy to produce each dollar of wealth



3 times more energy from renewable sources

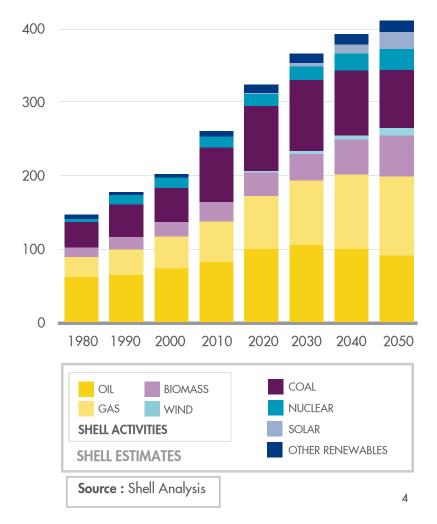
ENERGY LANDSCAPE

RISING GLOBAL ENERGY DEMAND



ROBUST LONGER TERM FUNDAMENTALS

Energy demand outlook in million boe/d



THE CASE FOR GAS

ABUNDANT

- Abundant global gas resources, growing and geographically diverse
- Can supply >250 years of current global gas production

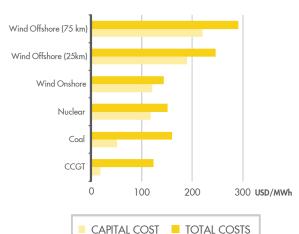
North America South America Europe South America Europe Africa Africa Conventional Gas Resources Unconventional Gas Resources

ACCEPTABLE

- CCGT: gas-fired power compared to coal:
 - 30% more energy efficient
 - Emit around half the CO2
 - Better complement to wind power
- Replacing coal with gas for electricity generation is the cheapest and fastest way to meet CO2 reduction targets

AFFORDABLE

- CCGT cheapest to build
- Similar total cost to coal and nuclear



NATURAL GAS: A DESTINATION FUEL

Source: IEA World Energy Outlook, Wood Mackenzie, Shell Interpretation

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CCGT: Combined Cycle Gas Turbine **Total Cost** = Capital + Fuel + Operating

Source: DECC (Mott MacDonald) June 2010 5

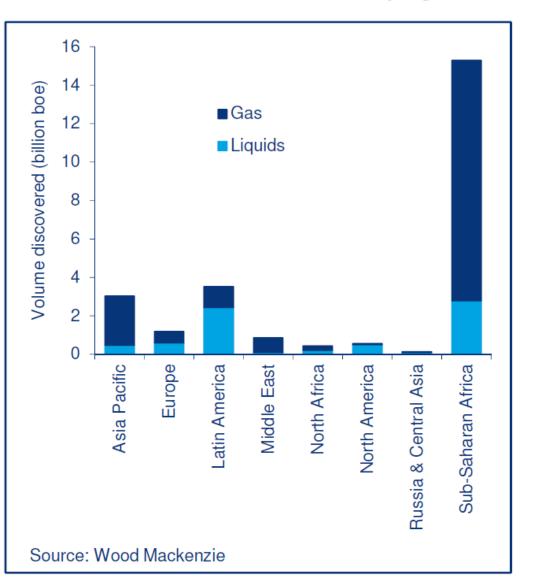
INDUSTRY SUB-SAHARAN AFRICA ACTIVITY 2003-2012



- Sub-Saharan Africa (SSA) is attracting great interest from exploration industry.
- 2012 is the most successful for exploration over the last ten years in SSA.
- Estimated discovered volumes in SSA over 15 billion boe in 2012

(source: Wood Mackenzie)

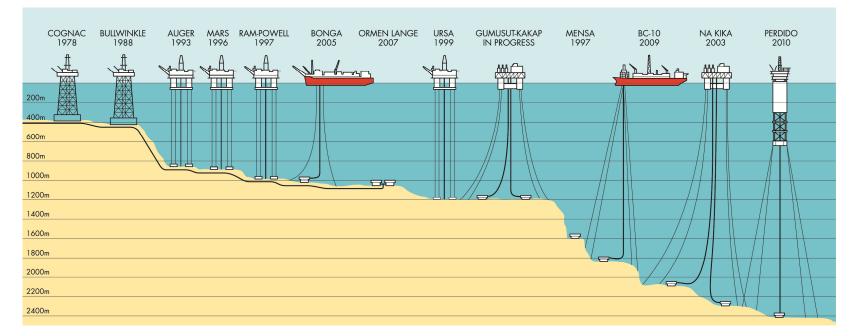
New field resources discovered in 2012, by region



Shell Upstream International

A LONG HISTORY OF DEEPWATER DEVELOPMENT

BRAZIL – BC10 **GOM - PERDIDO FPSO CONSTRUCTION** PERDIDO SPAR HULL DEEPWATER SEMI-SUBMERSIBLE



MALAYSIA - GUMUSUT

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SHELL TECHNOLOGY AND LNG LEADERSHIP

Onshore LNG



50+ years of LNG development and operating experience in remote locations

- Designing for lowest life-cycle costs
- Flawless start-up program
- Highest plant utilizations in industry
- Local staff participations > 95%

Floating LNG



Unique and mature floating LNG solution to develop offshore deepwater gas fields

- Cost competitive
- Quick to deploy
- Low environmental footprint
- Large impact for economy

A JOURNEY IN NATURAL GAS - WHAT IT TAKES

Committing to: • Safety • Sustainable developmen • Social performance Mega project delivery

Maximizing local content and jobs FID

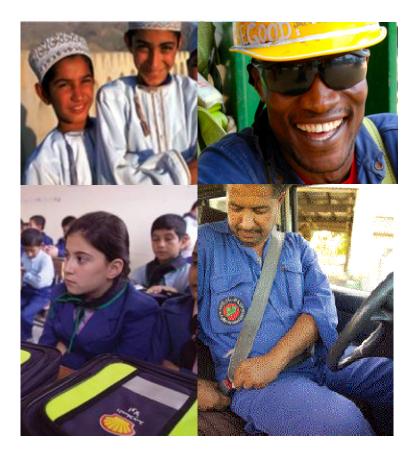
Attracting multibillion \$ financing Securing LT gas markets and off-take

Choosing the best development options

Ensuring stable gas fiscal frameworks Building capacity and skills in country Embedding long term energy master planning

WORKING IN TRUE PARTNERSHIPS

Shell as partner for Governments and National Oil Companies



- Contributing to national development
- Accessing, utilising and monetising energy resources
- Ensuring security of energy supplies
- Building capacity and fostering regional talent
- Long experience in joint ventures
- Committing to safety, sustainable development and social performance

