



# DRIVING DOWNSTREAM GAS SOLUTIONS

**SPURING SUSTAINABLE DEVELOPMENT WITH  
NATURAL GAS – THE QSL ADVANTAGE**



**GAS & POWER**

*Your Reliable Energy Partner...Powering Nations*



# GHANA GAS FORUM



**NATURAL GAS:  
THE FUTURE IS HERE**

# Content

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## **AFRICA'S ENERGY REALITIES**

➤ Increasing Energy Access – Our African in Focus



## **Africa in Energy Transition: Are We Ready**



## **Imperative For Africa Market Development**



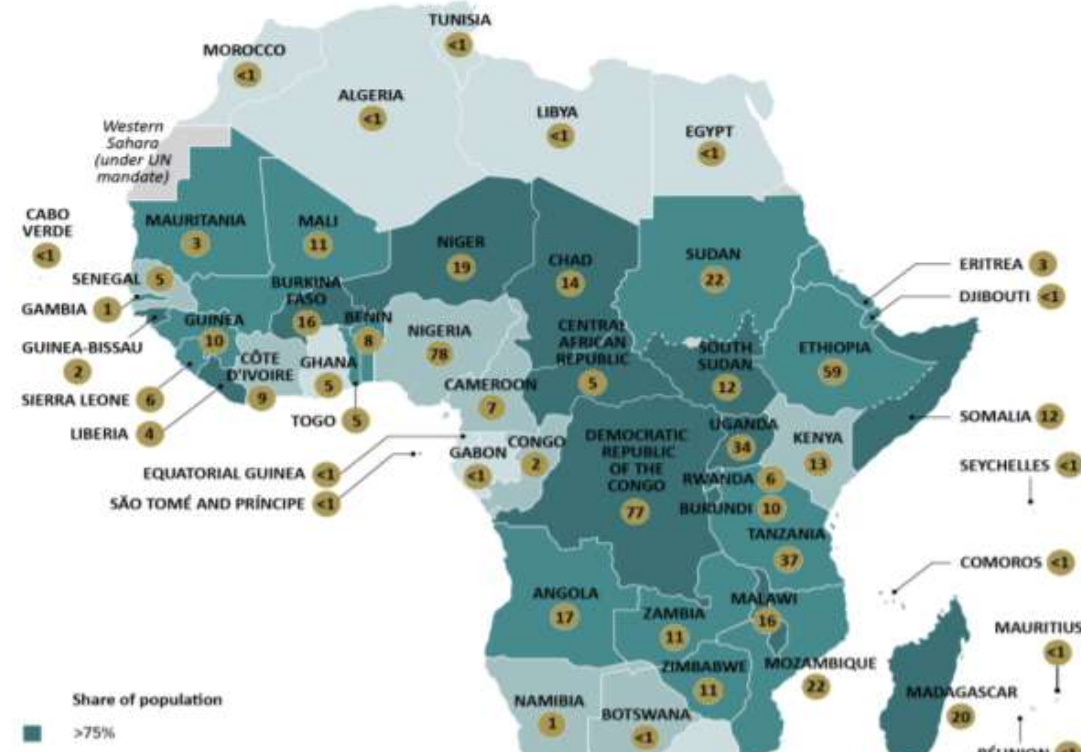
## **Africa Market Development – LNG THE GAME CHANGER**

The image shows an industrial facility, likely a refinery or chemical plant, during the "blue hour" of dusk. Several tall, cylindrical distillation columns are the central focus, each with a platform near the top. The sky is a mix of deep blue and grey, with some light clouds. The industrial structures are illuminated from within, casting a warm, orange glow that contrasts with the cool tones of the twilight sky. In the foreground, there's a complex network of pipes, ladders, and structural steel, some of which are also lit up. The overall scene conveys a sense of continuous industrial activity.

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# AFRICA'S ENERGY REALITIES

Population without access to electricity by country in Africa, 2018



In sub-Saharan Africa **55%** of the people lack access to electricity; in 13 countries, more than 3-quarters of the population do not have access to electricity

- ✓ Africa contributes less than **3%** to **Global emission** and is disproportionately affected by the effect of climate change.
- ✓ 1 out of every 3 people born between now and year 2040 would be Africans
- ✓ **30%** of the energy consumed in the world is used for manufacturing whilst in Africa, less than **7%** is used for manufacturing
- ✓ Funds for Fossil fuel projects appear to be drying up due to the global clamor for transition away from fossils to cleaner energy
- ✓ Different countries in Africa have wide variations in Electrification status

Despite our huge resources (**over 800TCF of Gas reserves**), Africa still ranks the lowest in energy per capita income even with increasing **population**

# THE QUEST TO POWER AFRICA

A CONTINENT IN SHADOWS

IN TERMS OF POPULATION AND LAND MASS, AFRICA IS THE SECOND LARGEST CONTINENT IN THE WORLD, TRAILING BEHIND ONLY ASIA. BUT, AMAZINGLY, A MAJORITY OF THE BILLION PEOPLE LIVING ON THE CONTINENT SURVIVE EVERY DAY WITH LITTLE TO NO ACCESS TO ELECTRICITY. IN THE MIDST OF ECONOMIC, SOCIAL, AND GEOPOLITICAL TURMOIL, MANY OF THE POOREST NATIONS IN AFRICA ARE UNABLE TO SCOURGE UP THE MONEY, RESOURCES, AND GENERAL KNOW-HOW TO BRING ELECTRICITY TO THEIR PEOPLE.

**79 %**

of people living in Third World African nations have no access to electricity.

**1.5 BILLION**

(25% OF THE GLOBAL POPULATION)

people in the world have no access to electricity—they are mostly concentrated in Africa and southern Asia.



In 11 countries in Africa, **MORE THAN 90%** of people go completely without electricity.

In Burundi, Chad, Central African Republic, Liberia, Rwanda, and Sierra Leone,

**3-5 %**

of people have easy access to electric power.

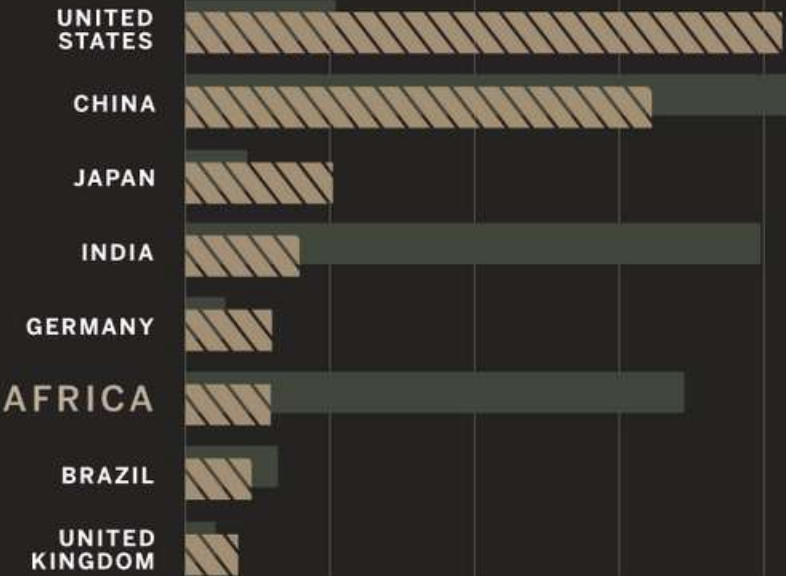


Africa has the **LOWEST PER CAPITA ENERGY** use of any continent.



## ELECTRICITY GENERATION AND POPULATION BY REGION

POPULATION 0 300 MILLION 600 MILLION 900 MILLION 1.2 BILLION



Each day, New York City consumes the same amount of electricity as all sub-Saharan African nations combined, excluding South Africa.



African soil contains an estimated **18 %** of the world's recoverable uranium

The two reactors in South Africa account for **5 %** of its energy generation

### CURRENT NON-FOSSIL FUEL ENERGY EFFORTS

- WIND
- NUCLEAR
- THERMAL
- GEOTHERMAL
- SOLAR THERMAL
- HYDROELECTRIC

### FUTURE PLANS

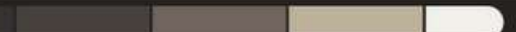
- WIND
- NUCLEAR

**Africa still needs Natural Gas to reach its full energy and economic potential**

"This [crisis in Africa] is very bad and is something that the energy community and others should be ashamed of"

- FATIH BIROL, IEA'S CHIEF ECONOMIST

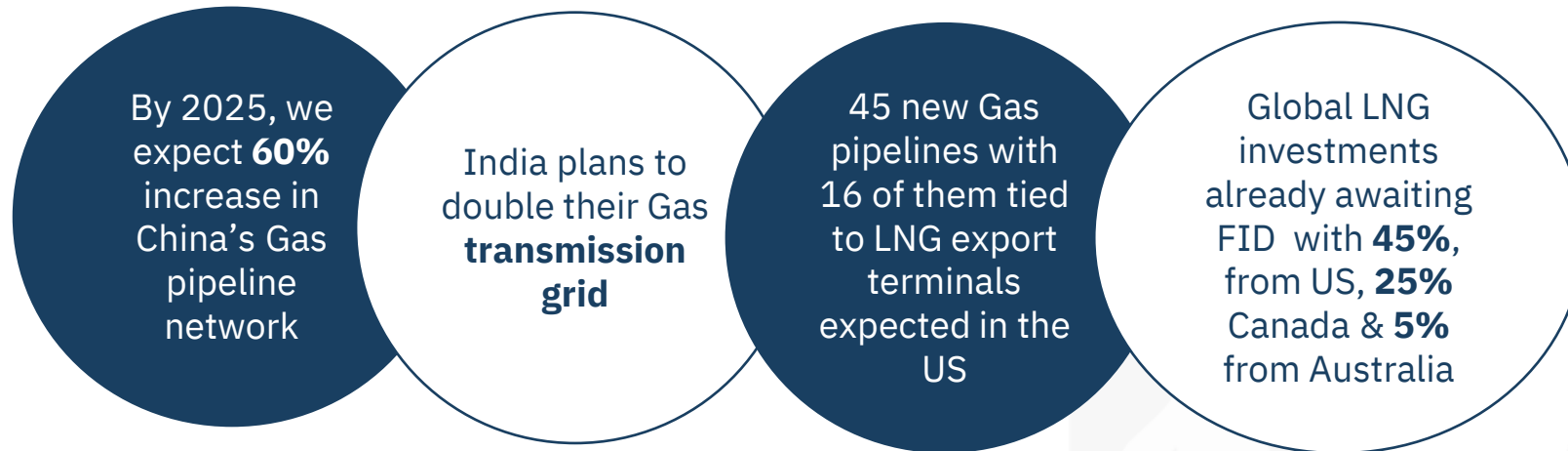
TOTAL ELECTRICITY GENERATION IN BILLIONS OF KWH



# Energy Transition: What does it mean for Africa?

## Three of the ten highest CO<sub>2</sub> emitting countries announce net-zero emissions (NZE)

- On the face of it, funds appear to be re-allocated for renewable energy projects
- But in realities, natural gas is being prioritized and investments are scaling up:

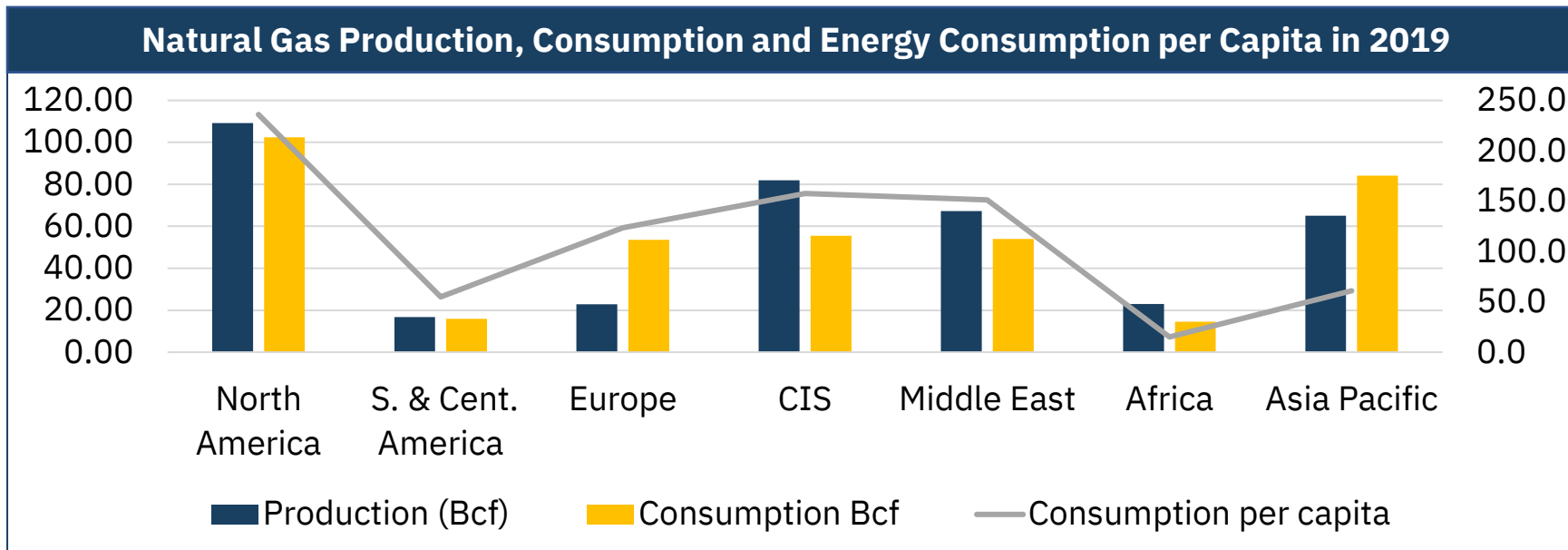


- Natural Gas share in the energy mix is projected to rise from current **16%** to about **25%** by year 2030 and would continue to drive energy fuel in hard to abate sectors.

With over **800TCF** of proven reserves, Africa needs to attract investments in Gas development to ramp up electricity output to up to **180GW** by year 2040 and drive Gas based industrialization

**Clear-cut policy direction backed by enabling regulation would drive Africa's energy transition**

# Imperative For Africa Market Development



## A need to develop a coordinated Gas Market across African countries:

- **Energy hub approach – Regional gas network and LNG deployment – to drive energy access and equity**
- **Expand Gas utilization beyond the current play: GBIs, Manufacturing etc.**
- **Local financing for fossil fuels**
- **Leverage African Continental Free Trade Area (AfCFTA) to drive gas to industries: digitization, efficient supply chain management system**
- **Need to incorporate R&D into our processes. Incorporate matured technologies to drive decarbonization e.g. Carbon Capture and Storage etc.**



# Who We Are

- QSL Gas and Power Limited is an integrated energy company delivering clean, cost effective and sustainable energy solutions for power generation and industrial development
- We are collaborating with key energy stakeholders in Nigeria including Nigerian Gas Marketing Company (NGMC), Gas Aggregation Company of Nigeria (GACN), Nigerian Gas Transportation Company (NGC) and upstream Gas suppliers in our domestic gas market development.
- Within two (2) years, we have expanded our downstream Gas markets

Built a distribution business that delivers over **20MMSCFD** of Gas to the domestic market

Maintains a Gas trading portfolio that delivers over **50MMSCFD** to domestic market

Translating to over **300MW** of Power to the domestic market

Already invested **+USD10Million** to fund & develop Gas & Power projects

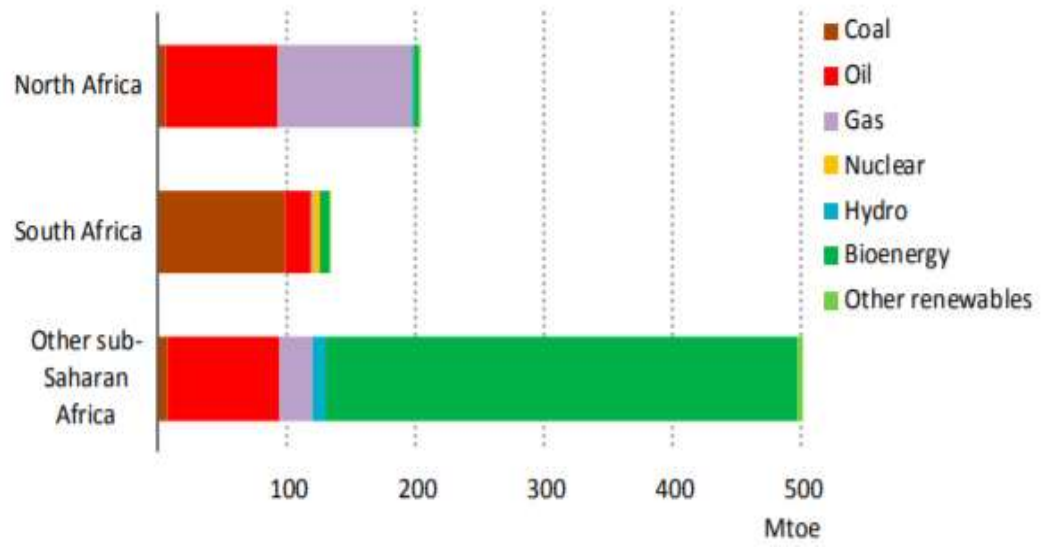
Developing a major **FLNG** project in Nigeria to drive LNG supply to African markets

- **We are consistently leveraging innovative technology solutions to enable us to adapt our energy delivery capabilities to a wide spectrum of users within our chosen markets**
- **We are expanding the domestic gas market with key piped and virtual gas pipeline instructures being developed across Nigeria.**

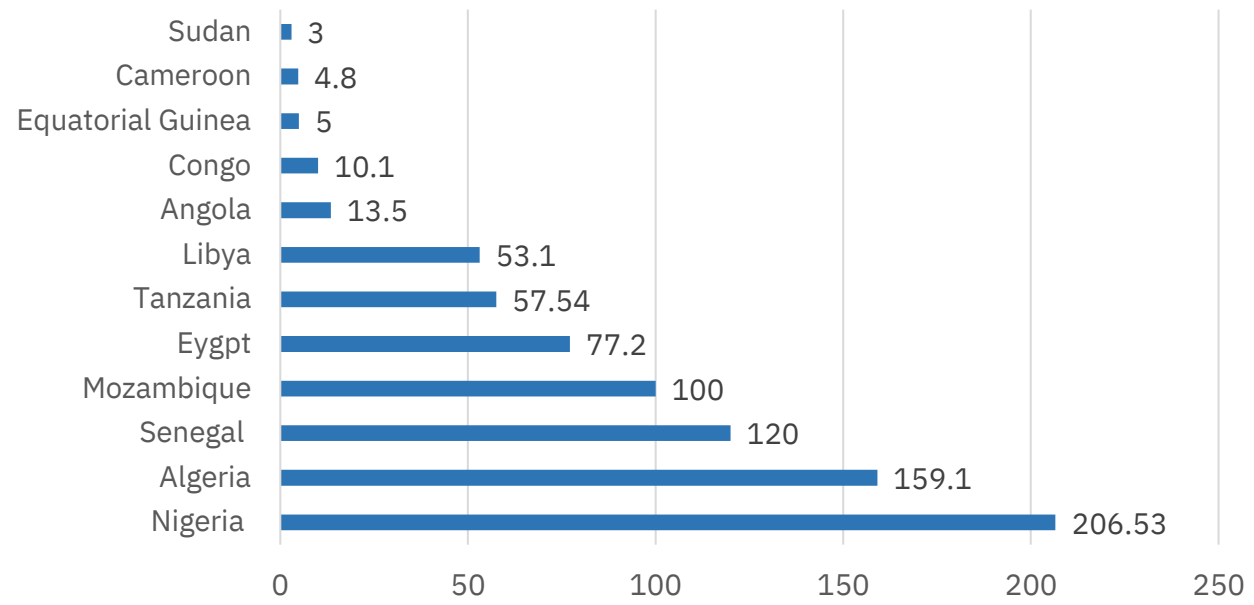
# Our Next Phase of Development: We Are Africa Focused

## We are harnessing opportunities across the African Energy Landscape

Total primary energy demand by fuel for selected African regions, 2018



Africa's Natural Gas reserves by country



- Natural Gas to remain the dominant fuel to support economic growth & development in Africa
- In 2018, Natural Gas accounted for about **16%** of the energy demand mix
- Natural Gas as an engine for industrial growth and reliable electricity supply

- Africa's Gas reserves is capped at 8% of the global reserves (In terms of volume BP estimate Africa's Gas reserves at 14.7 trillion cubic meters)
- Presently, Africa is sitting on about \$4.4 trillion untapped wealth

# Our Value Proposition and Services

We are a 'One-Stop Shop' for all industrial energy solutions



## Gas Supply and Transportation

In addition to supplying our customers with natural gas at very competitive prices, we also provide embedded power solutions to "stranded" customers.



## Business Advisory

We provide business advisory services to determine energy requirements.



## Power Solutions

We provide business advisory services In addition to supplying our customers with natural gas at very competitive prices, we also provide embedded power solutions to "stranded" customers.determine energy requirements.



## Gas Infrastructure Development

We fund & provide natural gas and power generation infrastructure including gas pipelines, PRMS, CNG infrastructure etc.



## Gas Equipment Procurement

We work with our various partners to assist companies in securing gas fired Boilers, Heaters etc., for business operations





**THANK**



**YOU**



## QSL GAS and Power

### The Waterside

Admiralty Road, off Admiralty Way Lekki  
Phase 1, Lekki, Lagos, Nigeria, 101233  
Tel. +234 706 100 4100, +234 816 518  
8611 Email: [info@qsl-gp.com](mailto:info@qsl-gp.com)  
Website: [www.qsl-gp.com](http://www.qsl-gp.com)



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