

June 2021

Emergency Power Systems & Uninterruptible Power Supply

Godwin Aigbokhan, Katharina Felgenhauer



Delegation der Deutschen
Wirtschaft in Nigeria
Delegation of German Industry
and Commerce in Nigeria

 PartnerInNigeria



In Numbers – The AHK Network

OVER
50.000
MEMBERSHIPS

140
LOCATIONS

SINCE
1894

125 YEARS

92 COUNTRIES



Delegation der Deutschen
Wirtschaft in Nigeria
Delegation of German Industry
and Commerce in Nigeria



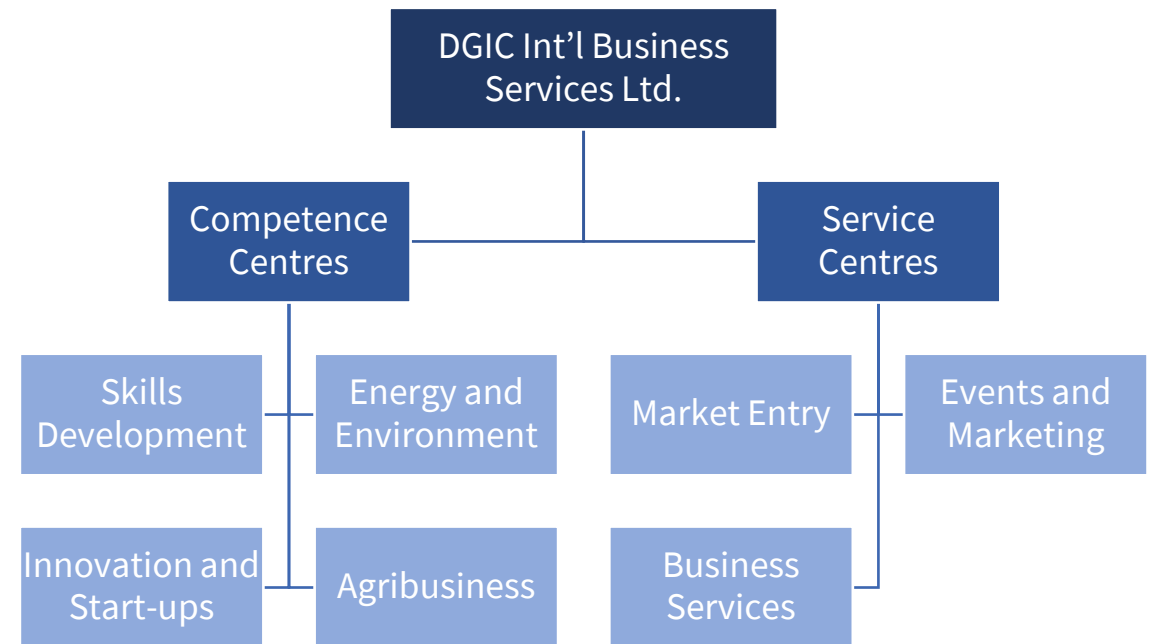
PartnerInNigeria

About Us...

The Delegation of German Industry and Commerce in Nigeria (AHK Nigeria) is part of the network of German Chambers of Commerce (AHK's) in 140 locations in 92 countries abroad, set up by the DIHK to foster bilateral trade relations between Germany and other regions, worldwide.

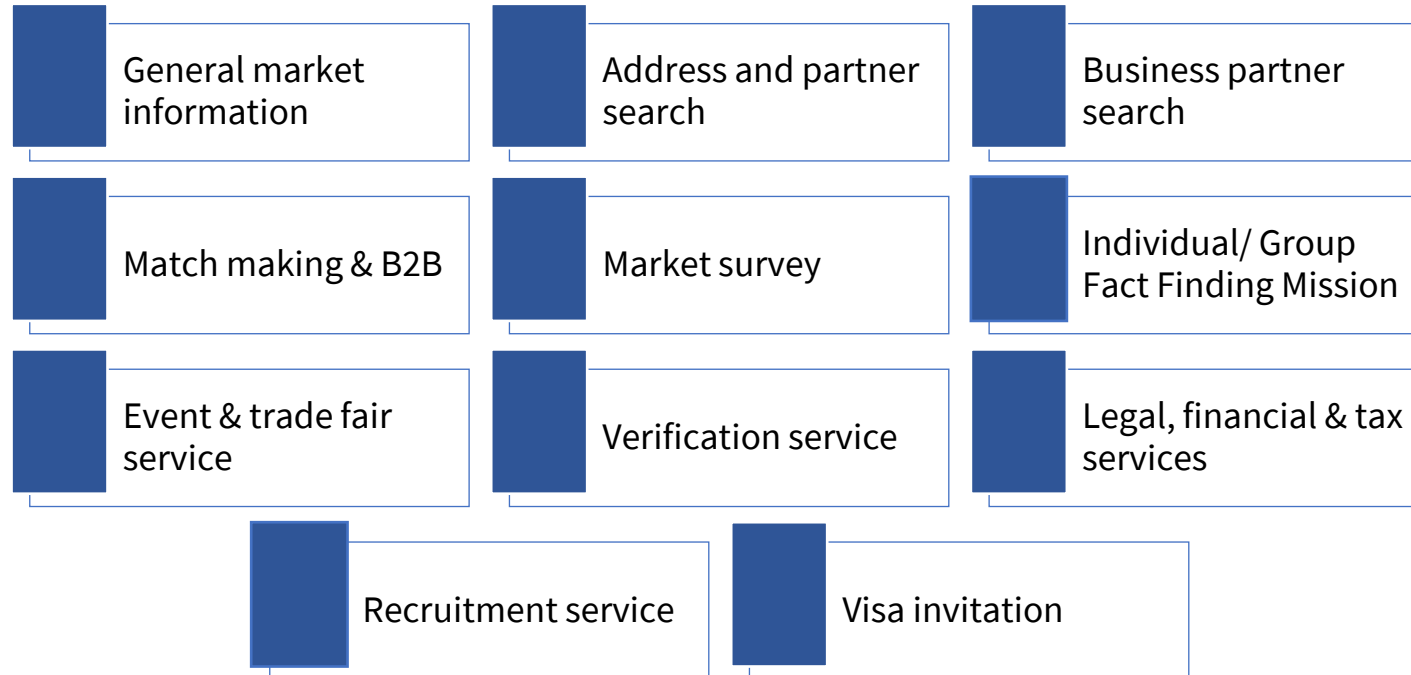
Established in 1981, AHK Nigeria together with its commercial affiliate, DGIC International Business Services Ltd. support bilateral trade relations between Germany and Nigeria through its extensive network and expertise. Besides offering relevant B-2-B services, we provide expert support services through our service and competence centres.

We have our offices in Lagos and Abuja, Nigeria.



Services

Through our service and Competence Centres, we offer various services that promote bilateral trade between Nigeria and Germany



Virtual services introduced in 2020



Virtual RE Training Webinars

Reach new customers through free training based on your product offerings



Virtual Dragon's Den

Present your innovative ideas to a pool of investors and secure funding/investment



Partnerships

Upgraded partnership and advertising bundles



Live Webinars and web conferencing

Providing timely expert advice for partner companies



DGIC Business Portal

An online platform connecting foreign companies to local partners and customers



Remote Trade Fair Representation

Representation at local trade fairs during lockdown and travel restrictions



Remote Business Representation

Market entry support during lockdown and travel restrictions



Online skills development

Online trainings and certification for technical and vocational skills

Please contact us
for your tailor
made services

Non-exhaustive list of German companies in Nigeria

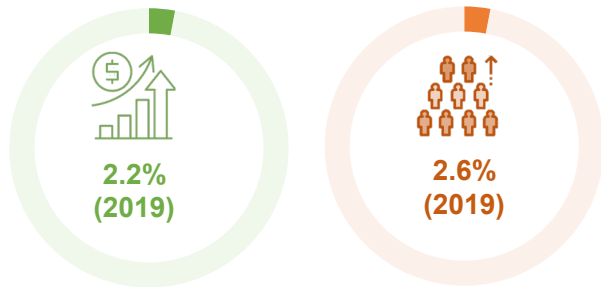


Overview Nigeria

❖ **Land area:** 923,768 km² or 92.3768 million hectares

❖ **GDP/Capita:** \$ 2,028 (Constant prices, WB, 2018 est)

❖ **WB EODB:** Ranked 131 in 2019 report



GDP

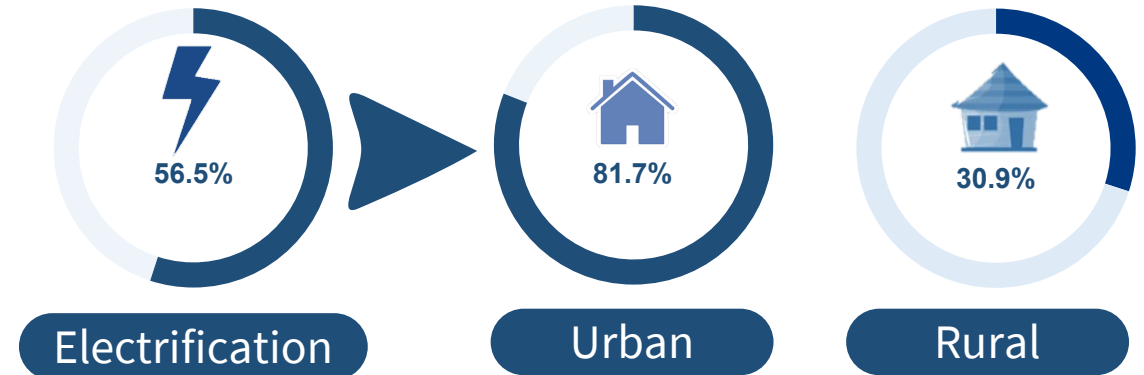
Population

201 million (2019 est)
Avg. Age: 18.1 Years

❖ **Main exports:** Crude oil (76%), Nat Gas (14%)

❖ **Oil deposits:** 36.9 bn BOE (2.2% of global total)

❖ **Gas deposits:** 5.2 Trillion m³ (2.75% of global total)

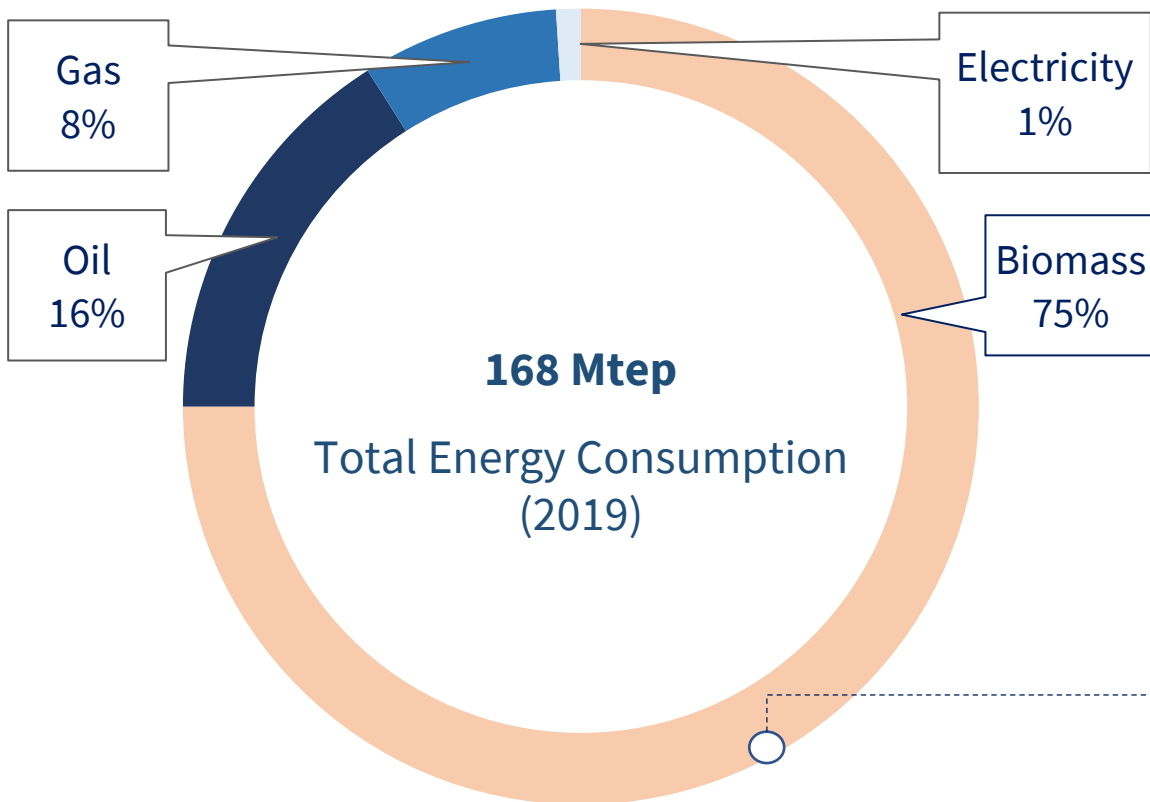


Electrification

Urban

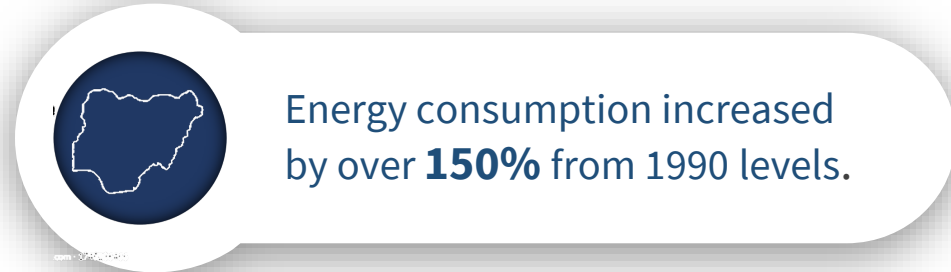
Rural

Energy Consumption



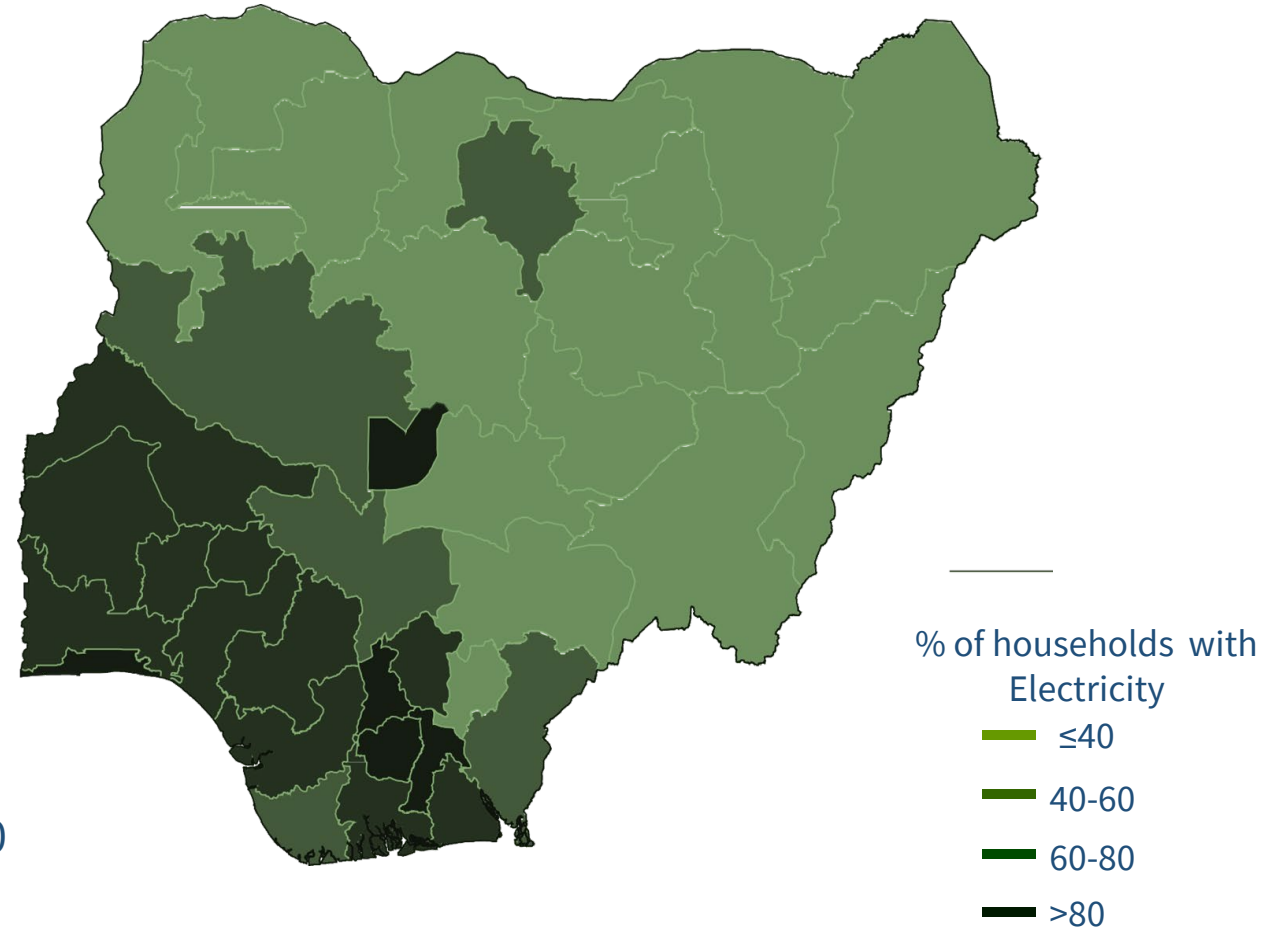
¹ Global Energy Statistical Yearbook 2020

² https://www.opec.org/opec_web/en/about_us/167.htm (May 2021)



Grid Supply

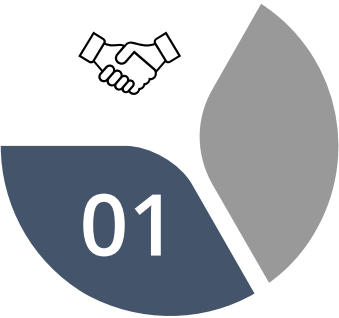
- ❖ Installed on-grid generation capacity \approx 13 GW
 - ❖ 85% *Thermal (Gas)*; 15% *Hydro*
- ❖ Unelectrified population > 90 million people
- ❖ US\$ 9Billion or 6GW of new generation capacity needed to increase rural electrification to 90% by 2030



Source: Nigerian Energy Support Programme – Preliminary modelling of off-grid PV capacities (2016)

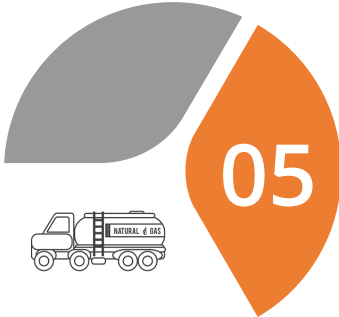
2030 Policy Targets

Sustainable Development Goals.

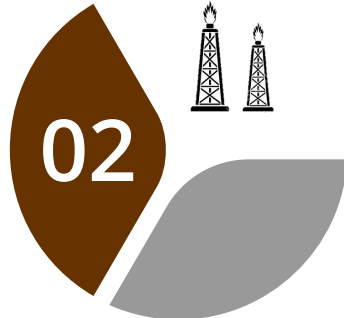


Paris Agreement/COP 21

Domestic Natural Gas Utilization

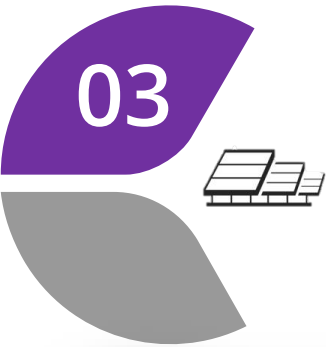
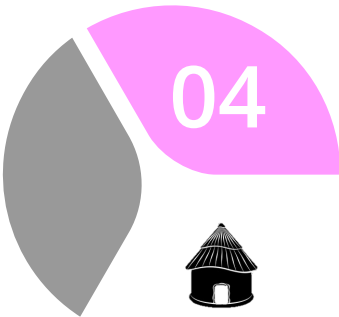


2030



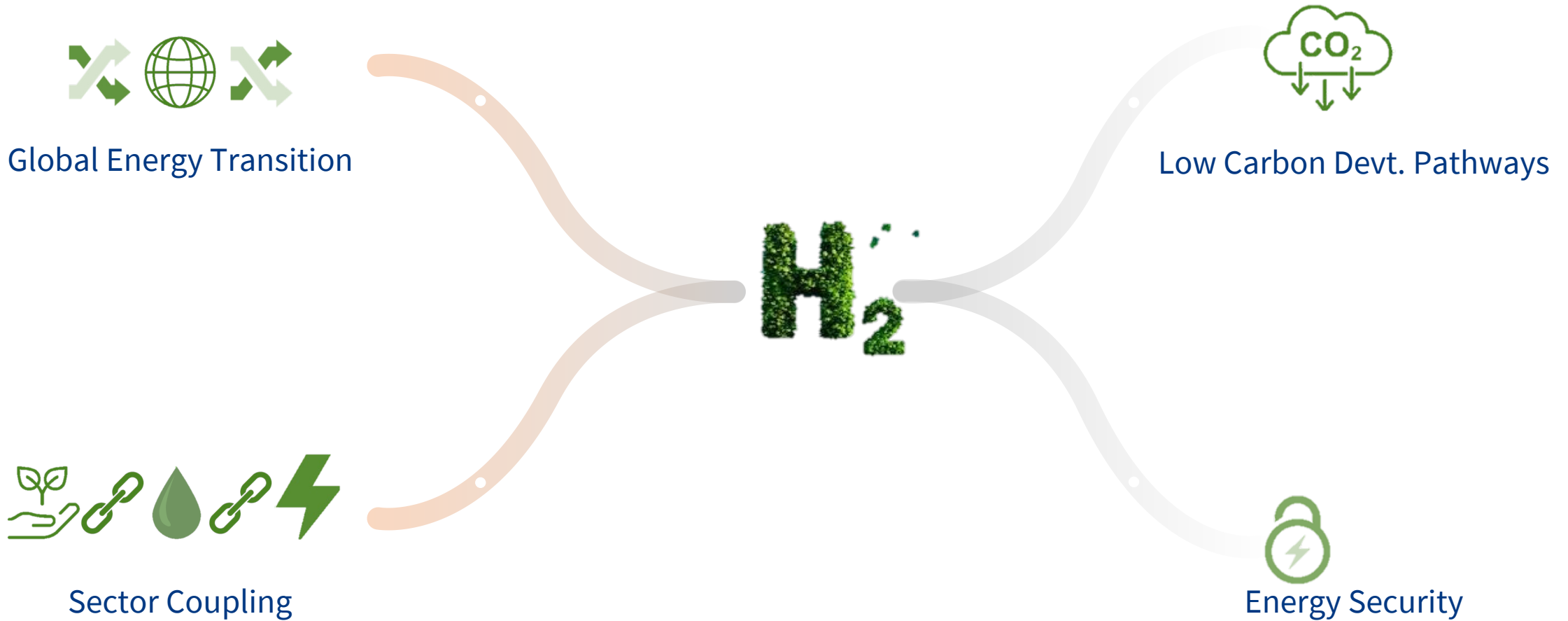
Global Gas Flaring Reduction Partnership

Off-grid (Rural) Electrification



SE4All/Vision 30:30:30

Why Green Hydrogen for Nigeria?



Energy Security and Typical Emergency Power Systems (EPS)



Low local refining capacity,
high fuel imports

Energy subsidies and supply
shortages

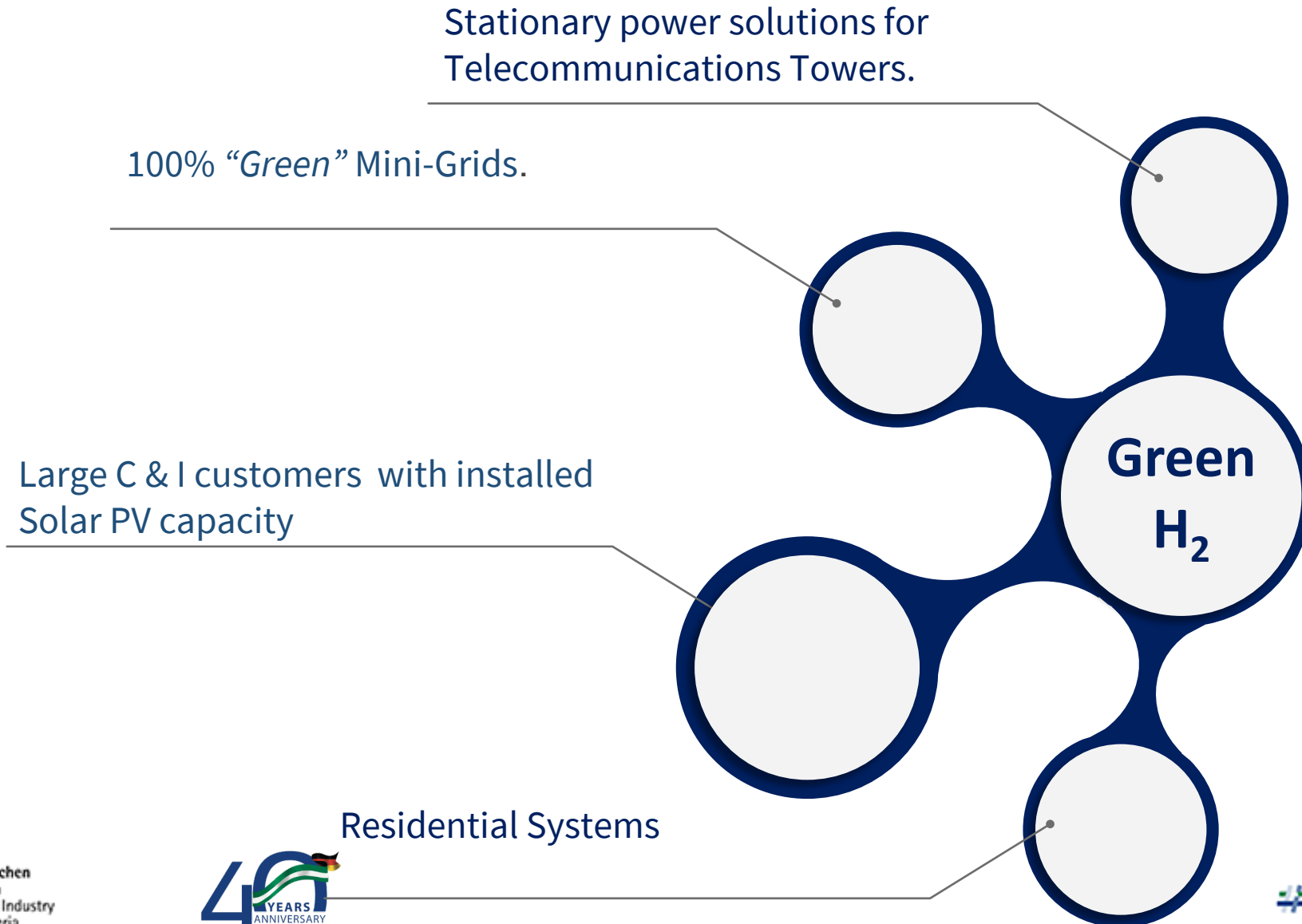
151 kWh/Capita per annum
(GER :> 7,000 kWh/Capita)

~ 15 GW Self-Generation
Capacity

C&I solar PV is nascent but
growing



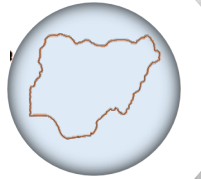
Near-Term Demand Opportunities for Green H₂ based EPS



Recommendations for Market Development



Research and Analysis



Pilot Project and Proof of concept



Support of National Green H2
Policy Development



Small-scale electrolyzers and fuel
cells

Contact Us

Lagos office:

142 Ahmadu Bello way
Victoria Island
Lagos, Nigeria

Tel: + 234 (1) 2700746 – 7

Email: info@lagos-ahk.de

Website: www.nigeria.ahk.de

Abuja Office:

8b Patrice Lumumba street
Asokoro
Abuja, Nigeria

Connect with us on:



@ahknigeria

Godwin Aigbokhan

Head of Competence Centre Energy and Environment
Aigbokhan@lagos-ahk.de

