The World Bank Failing Nigeria on Climate Goals and Energy Access





Swedish Society for Nature Conservation



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Executive Summary

The world is faced with an accelerating climate crisis and is already experiencing unprecedented extreme weather events. In Nigeria, 24 percent of the population or about 41 million people live in areas of high climate risks from storm surges, coastal and inland flooding, wildfires and drought.¹ These climate risks further exacerbate the severe fragility and natural resource-based conflicts in Nigeria. Moreover, people living in poverty are the most vulnerable to climate change impacts. The World Bank warns:

"Climate Change is an acute threat to global development and efforts to end poverty. Without urgent action, climate change impacts could push an additional 100 million people into poverty by 2030."²

The World Bank Group (WBG)³ has pledged to assist countries to meet the goals of the United Nations (UN) Paris Climate Agreement (2015), which include limiting global average warming to well below 2°C; and making financial flows consistent with a pathway towards low greenhouse gas (GHG) development. The core of the climate crisis is the energy sector's burning of fossil fuels, since it is the largest contributor to GHG emissions. A rapid transformation of the energy sector, from fossil fuels to renewable energy, is needed to combat climate change.

At the same time, the energy transformation must address the energy needs of the poor. Nigeria's rate of electrification is only 55 percent,⁴ leaving more than 85 million people without electricity (the vast majority live in rural areas)⁵. In 2018, Nigeria had the most people in the world living without electricity.⁶.

Both the UN and the WBG emphasize that access to energy is essential to reducing poverty. Correspondingly, the UN's Sustainable Development Goal 7 aims for universal access to affordable, reliable and sustainable energy by 2030. Likewise, in 2013 the WBG pledged that its energy practice would be centered on the achievement of the UN's universal energy access goals.⁷

Poverty reduction, energy access and climate goals are inextricably linked and require urgent and bold action. Given Nigeria's significant climate change risks and substantial electricity deficit, the following paper details an assessment of WBG assistance to Nigeria from 2014 to 2019 against achieving climate goals and universal energy access by 2030.⁸

Main Findings

Overall, the WBG's energy sector assistance in Nigeria undermines the Paris Climate Agreement goals and falls considerably short in what is necessary to meet Nigeria's energy access goals. Main findings include:

Oil and gas the overwhelming priority: As shown in Figure 1, the WBG's assistance is overwhelmingly in support of fossil fuels, providing over 5 times more funding to fossil fuels than to renewable energy in Nigeria. From 2014 to 2019, the WBG provided \$1.8 billion or 69 percent of total energy sector finance to oil and gas projects, including for multiple oil and gas exploration operations and one of the world's largest oil refineries (another oil refinery is pending approval). Meanwhile, Nigeria's vast potential for renewable energy (e.g., 427 GW solar⁹) remains mostly untapped. Only 13 percent of WBG energy finance in Nigeria supported renewable energy.



Note: Does not include WBG finance through financial intermediaries. *Mini- & Off-grid solar solutions

WBG focus on gas expansion – misguided and GHG-intensive: The WBG's Energy Business Plan (EBP) for Nigeria focused on the development of the gas sector, from upstream gas production through downstream power generation. Correspondingly, from 2014-19, the WBG funded over \$1.1 billion for gas processing, transport and power generation, including for inefficient open-cycle plants. The production, transport and burning of gas emits significant GHG emissions. In addition to carbon dioxide emissions, the global gas sector is one of the largest industrial sources of methane emissions¹⁰, a GHG with atmospheric warming 80 times greater than carbon dioxide.¹¹

Non-alignment with Paris Climate Agreement, facilitating high-GHG development path: The WBG has clearly prioritized fossil fuel development over renewable energy in Nigeria, including operations involving oil and gas exploration, and the world's largest oil refinery and petrochemical complex. Nigeria is already a top producer and exporter of oil in the world. Using the WBG's public assistance to expand oil and gas reserves and production is clearly counter to "making financial flows consistent with a low-GHG development path" and therefore, the WBG's energy portfolio in Nigeria is not in alignment with the Paris Climate Agreement.

Increased WBG assistance for mini- and off-grid solar a positive step forward: According to the World Bank, the Bank has been "the main interlocutor for the Government [of Nigeria] on power development" since 2000.¹² Yet, in 2017 Nigeria's rural electrification rate remained as low as it was in 1981 (~ 24 percent). This suggests that the WBG had failed to adequately prioritize solutions for rural energy access. In 2018, the WBG took a significant step forward with the Nigeria Electrification Project for \$350 million. This WBG Project rightly focuses on increasing rural electrification mainly with mini- and off-grid solar solutions (i.e., stand-alone-home systems and hybrid-mini grids).

Significantly inadequate electrification rate: In order for Nigeria to meet its target rate of 75 percent electrification by 2020, at least 10 million new rural household connections are needed. The expected WBG 2023 outcome is only 600,000 new rural household connections, which is a whopping 9.4 million households short of the goal (see Figure 2). There is no indication that this gap will be closed by a significant degree by the government or any other funder (the government and others are already financing fifty percent of the total project costs involved in the WBG-accounted 600,000 new connections). If the current pace of electrification continues, Nigeria will significantly fall short of universal access by 2030.



*New connections attributed to the WBG operation will be reached by 2023 and are jointly funded by the Nigerian government.

[^]The national target represents only the number of new rural household connections deemed necessary by 2020 to reach universal access by 2030 as provided in Nigeria's Rural Electrification Strategy (2016).

Inadequate and uncertain funding for energy access: Only 13% of WBG energy sector project finance in Nigeria (\$350 million out of \$2.7 billion) is targeting new energy connections. Despite the WBG's 2013 pledge, it does not appear the WBG's energy practice in Nigeria is centered on achieving universal access by 2030. Unfortunately, sustained funding for Nigeria's rural electrification program is uncertain, which makes it difficult for the country to plan and sustain progress. At this point, the WBG has not provided any plans to continue funding Nigeria's rural electrification program.

Recommendations

The WBG has committed to assist countries to meet the goals of the Paris Climate Agreement, and to center their energy practice on achieving universal access to energy by 2030. In order to help Nigeria reach these goals, the WBG should:

- End all WBG public assistance for fossil fuels: No WBG public assistance should be used million for the ND oil refinery should not be approved.

to develop fossil fuels, which further exacerbate the climate crisis responsible for intensifying droughts, floods and wildfires in Nigeria. This includes assistance for associated facilities; financial intermediaries; policy-based finance (e.g., fossil fuels excluded from all forms of tax breaks and investment incentives); guarantees; general budget support (i.e., fossil fuels must be added to excluded expenditures); technical assistance and advisory services. The IFC's proposed \$35

Scale up funding for renewable energy, including mini- and off-grid solutions: From 2014 to 2019, the WBG supported no utility scale renewable energy projects in Nigeria. This lack of assistance is unacceptable. The WBG needs to provide significant assistance to Nigeria to develop the country's renewable resources. Even the substantial WBG funding for mini- and offgrid solutions in Nigeria needs to be significantly increased and sustained for Nigeria to reach universal access by 2030.

- Provide more and sustained funding for new household connections: Nigeria has the sec-٠ ond highest energy access deficit in the world. Given the WBG's finance (2014-19) directed at new household connections represents only 13% of its overall energy sector finance in Nigeria, the WBG can and should direct more finance to connections. To reduce uncertainty in funding for Nigeria's electrification strategy, the WBG should commit to long-term (e.g., 10-year), sustained funding for new household electricity connections. The 10-year WBG funding commitment needs to be reflected in an updated Country Partnership Framework for Nigeria. Correspondingly, the WBG needs to transparently report direct WBG contributions to new household connections within the context of other sources of energy access funding.
- Perform a gap analysis on universal access by 2030. Given that the electrification rate is inadequate, the WBG should assist the government to identify where gaps exist and how the gaps will be addressed in order for them to achieve annual electrification targets necessary to reach universal access by 2030.

Introduction

The world is faced with an accelerating climate crisis and is already experiencing unprecedented extreme weather events. According to the US Agency for International Development (USAID), Nigeria has more than 41 million people or 24 percent of its population, living in high climate exposure areas.¹³ Its population faces diverse and extensive climate risks from storm surges along the entire coast; inland flooding and wildfires in the Niger Delta region; decreased rainfall in the southeast and Middle Belt; droughts and floods in the north; and flooding across the country along the Niger, Benue, Soko and Komadugu rivers.

At the same time, Nigeria is in critical need of increasing access to energy. Nigeria is the highest energy access-deficit country in the world second only to India for having the most people without access. In 2017, Nigeria's electrification rate stood at only 54.4 percent,¹⁷ which leaves more than 85 million people without access to electricity. Nigeria's urban-rural divide in electricity access is extensive. Nigeria's urban electrification rate is 87 percent, while rural electrifi-The USAID further states that "the critical concation is only 23 percent.¹⁸ From 2010 to 2018, nection between extensive climate risks and electrification efforts in Nigeria lost ground to severe fragility in the country contributes to inpopulation growth, leading to a net increase of stability the country now faces from food crises 3 million people lacking access to electricity by and land conflicts, risking a dangerous feedback 2018.19 loop between fragility and climate risks."

Both the UN and the WBG emphasize that ac-The Nigerian government's Nigeria Vision cess to energy is essential to reducing poverty. 20:2020 Economic Transformation Blueprint Correspondingly, the UN's Sustainable Develop-(2009) recognizes climate change as a critical ment Goal 7 (SDG7) aims for universal access to challenge in Nigeria and specifically as a "poaffordable, reliable and sustainable energy by tential driver of damaging and irrecoverable ef-2030. Likewise, in 2013 the WBG pledged that fects on infrastructure, food production and waits energy practice would be centered on the ter supplies, in addition to precipitating natural achievement of the UN's universal energy access resource conflicts." goals.²⁰

Adding to these concerns, the World Bank reports that the poor are the hardest hit by climate change impacts and that climate change threatens current and future poverty eradication.¹⁴ Most recently, the WBG's website posts the critical warning:

"Without urgent action, climate change impacts could push an additional 100 million people into poverty by 2030."15

The World Bank Group (WBG)¹⁶ has pledged to assist countries to meet the goals of the United Nations (UN) Paris Climate Agreement (2015), which include limiting global average warming to well below 2°C; and making financial flows consistent with a pathway towards low greenhouse gas (GHG) development. In December 2015, 195 countries, including Nigeria, adopted the Paris Agreement.

The core of the climate crisis is the energy sector's burning of fossil fuels, since it is the largest contributor to GHG emissions. Therefore, it is important that the development of Nigeria's energy sector does not aggravate the climate crisis further.

Methodology of Assessment – The assessment reviewed the WBG's energy portfolio for Nigeria from 2014 to 2019, including project finance (excluding financial intermediaries²¹), development policy finance, technical assistance, advisory services, and the country partnership framework. In assessing the WBG Nigeria portfolio, the case study focused on reviewing:

- WBG contributions to sources of power generation (e.g., fossil fuels, renewable energy, grid, and off-grid);
- WBG direct contributions to new electricity connections and the pace of electrification needed to meet universal access by 2030; and
- WBG actions addressing the availability of finance for energy access.

It is important to note that the assessment only covers access to electricity and does not cover access to clean cooking solutions, which is also of great importance regarding energy access for the poor.

The Nigeria case study includes the following sections: Nigeria's Electrification Strategy; Plans for Power Generation; WBG Assistance for Nigeria's Electrification Strategy; WBG's Country Partnership Framework; Proposed WBG Operations; and Conclusions and Recommendations.

Nigeria's Electrification Strategy

2001 National Electric Power Policy, the 2003 National Energy Policy, and the 2005 Rural Electrification Policy, the goal of the Government of Nigeria is to increase access to electricity to 75 percent by 2020 (urban and rural in aggregate) and 90 percent by 2030.²² More recently in July 2016, these goals were re-affirmed in Nigeria's Rural Electrification Strategy²³ and Nigeria's Sus-

tainable Energy for All Action Agenda.²⁴

According to the Rural Electrification Strategy, more than 70 million rural Nigerians lack access to reliable electricity supply. The Strategy stipulates in order to achieve the national target of 75 percent electrification by 2020, urban electrification must reach 95 percent and rural electrification must reach 60 percent. The Strategy estimates this will take more than 10 million new rural household connections (assuming 7 persons per household) at a total capital cost of US\$9 billion.²⁵

As repeated in several policies including: the Renewable Energy Targets: In addition, Nigeria's Sustainable Energy for All or SE4All Action Agenda incorporates the country's Vision 30:30:30 Energy Mix Target of 30,000 MWs by 2030 with renewable energy contributing 30 percent.²⁶ By 2020, the Vision targets the ongrid electricity generation mix to be 20 percent solar. In mega-watt terms, this amounts to 2,700 MW by 2020 and 9,100 MW by 2030 of on-grid renewable energy (solar, small hydro power,

wind, or biomass).²⁷

Table 1. Nigeria's Energy Sector Targets

	2020	2030
Electrification Rate	75%	90%
New Household Connections	>10 – 14 million	
On-grid Renewable Energy*		
(as percent of electricity generation mix)	20% solar; ~2,700 MW	30%; ~9,100 MW
Off-grid Renewable Energy		13 GW

Sources: Nigeria's Rural Electrification Strategy (July 2016) and Sustainable Energy for All Action Agenda (July 2016).

*Excludes large hydro power; >50 MW.

Furthermore, by 2030, Nigeria aims to have 13 GW of mini- or off-grid solar solutions to address both its energy access and climate goals. In 2015, it was estimated that Nigeria has between 8 and 14 GW of decentralized diesel generator capacity.²⁸ The 13 GW solar target is partially related to switching many of the existing diesel generators to solar-based systems (also see this link in the WB's Nigeria Electrification Project below).

Nigeria's Power Generation Plans

As of October 2017, Nigeria's installed power generation capacity was 12,500 MW with 74 percent gas power and 26 percent large hydro power.²⁹ Nigeria's actual power generation is only about a third of its installed capacity. From 2016 to 2018, less than 4,000 MW were dispatched on average largely due to challenges/ gaps in gas supply (including lack of funds to obtain gas and pipeline vandalism), and in electricity transmission and distribution capacities.³⁰

Nigeria's vast potential for renewable energy in line in the next few years [assumed to have hapthe country is mostly untapped. The assumed pened or will happen between 2018 to 2023] solar power generation potential is around 427 (see Table 2).³³ These plants are in various stag-GW.³¹ Studies of wind data from 30 stations in Nies of development from commissioned to ungeria indicate immense cost-effective wind-gender negotiation. Gas and Gas-Diesel generation erated power opportunities as well.32 equals 1,615 MW, which makes up 47 percent of the planned generation. Solar-powered genera-In June 2019, the Government of Nigeria reporttion equals 1,125 MW or 33 percent of planned ed a total of 3,400 MW of commissioned and generation and small hydro power makes up planned generation capacity that will come on 115.5 MW or 3 percent.

Table 2. Nigeria's Near-term Planned Power Generation

Power Station	Energy Type	Installed (MW)
Afam Fast Power	Gas	240
Gurara	Small Hydro	30
Kashimbilla	Small Hydro	40
Dadin Kowa	Small Hydro	29
Kudenda	Gas/Diesel	215
Zungeru	Large Hydro	700
Okpai Phase 2	Gas/Diesel	480
6 small hydro concessions	Small Hydro	16.5
14 Solar IPPs	Solar	1,125
Qua Iboe Power	Gas	540
Aba Power	Gas	140
Total		3,415.5

Source: Nigeria Power Sector Policy Directives Timeline, June 2019

Note: Small hydro power equals less than 50 MW. Locking in a High-GHG Development Path Based on the reported planned generation, the - non-alignment with Paris Agreement: The end result is a total on-grid generation capacity significant increase in gas power generation and of approximately 15,915 MW by around 2023 plans for large-scale coal plants is locking Nigecomprising of 68 percent gas and gas-diesel³⁴; ria into a high-GHG path and is not in alignment 29 percent large hydro power³⁵; 7 percent sowith the government's 30:30:30 Vision target or lar power; and less than 1 percent small hydro the Paris Agreement. power.

Given current and future climate impacts threatening Nigeria, it is important that the develop-Although not mentioned in the planned generation provided in the Power Sector Policy Diment of Nigeria's energy sector does not further rectives, Nigeria also has plans for coal power aggravate the climate crisis. The production and burning of more gas and the associated indevelopment. In March 2018, it was reported that PowerChina had recently signed a Memocrease in GHG emissions is a significant threat randum of Understanding (MoU) with the Kogi to the climate. The global gas sector is one of State Government for a 2,400 MW coal plant in the largest industrial sources of methane emis-Kogi.36 sions,³⁷ a potent greenhouse gas that in the first two decades has an atmospheric warming effect approximately 80 times greater than carbon di-

oxide.³⁸ Methane leakage is a problem across the entire value chain of gas production and distribution and thus, largely offsets the perceived climate benefits of gas relative to coal.³⁹ Global methane emissions have substantially spiked To begin, Table 3 lists WBG project finance opin recent years posing catastrophic climate impacts.

Nigeria's Electrification Strategy

The following section reviews how WBG assistance is contributing to Nigeria's overall electrification strategy and targets as well as addressing alignment with climate goals. As previously noted, in 2013, the WBG pledged to prioritize its

energy portfolio to assist countries to reach universal access by 2030.40 This study reviews what the WBG has done since 2013.

erations in the energy sector in Nigeria from 2014 to 2019. The WBG project documents for each operation were reviewed to determine if World Bank Group Assistance for the operation had targets specifically designed to increase energy access. The last column in the table specifies if the assistance contributes to new energy connections, which is an indication of direct support for Nigeria's energy access goals.

Table 3. Nigeria: World Bank Group Energy Sector Project Finance (2014 – 2019)					
Project	Amount (million US\$)	WBG In- strument	Approval Date	End Date	New Energy Connec- tions
Seven Energy oil and gas exploration	\$75	IFC equity	13-Mar-14	active	No
Nigeria Power Sector Guaran- tees gas power plants	\$125	IFC guar- antee	1-May-14	30-Jan-19	No
Nigeria Power Sector Guaran- tees gas power plants	\$150	MIGA guarantee	1-May-14	30-Jan-19	No
Nigeria Power Sector Guaran- tees Azura-Edo & Qua Iboe gas power plants	\$395 ⁴¹	IBRD guar- antee	1-May-14	30-Jan-19	No
Azura-Edo Independent Power Plant (IPP) 461 MW open-cycle gas power plant	\$155	IFC loan	1-May-14	active	No
Seven Energy Bond oil and gas exploration	\$50	IFC loan	26-Sep-14	active	No
Accugas Ltd. (Seven Energy) gas processing facility and pipe- line	\$200	MIGA guarantee	10-Jun-15	active un- til 2030	No
Azura Power West Africa Ltd. 461 MW open-cycle gas power plant	\$492	MIGA guarantee	22-Dec-15	active un- til 2030	No
Dangote Industries Limited oil refinery and petrochemical complex	\$150	IFC loan	26-May-16	active	No
Indorama Port off-shore oil & petrochemicals	\$52.5	IFC loan	22-Jun-16	active	No

Table 3. Nigeria: World Bank G	roup Energy Sector Project	Finance (2014 – 2019)
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NG-Electricity Transmission Proj- ect upgrades to existing grid	\$486	Investment Project Finance	15-Feb-18	31-Dec- 23	No
Nigeria Electrification Project off-grid renewables; solar-diesel mini grids	\$350	IDA: In- vestment Project Finance	27-Jun-18	31-Oct-23	Yes
Total	\$2,681				

Note: World Bank Group divisions - IFC=International Finance Corporation; IDA=International Development Association; MIGA=Multi-lateral Investment Guarantee Agency

Table 3 shows that out of thirteen WBG energy Component 2 involves stand-alone solar syssector projects in Nigeria since 2014, only one tems and targets 300,000 new households and project directly targets increasing energy con-40,000 SMEs. Component 3 involves energiznections - the Nigeria Electrification Project. In ing education with a target of providing seven addition, one project, NG-Electricity Transmisfederal universities with new or improved energy sion Project, does not directly add new electricservices through new solar capacity (~19 MW) at ity connections, but targets upgrades to the exa total cost of \$105 million with the Bank covisting grid. Given only the Nigeria Electrification ering \$100 million.⁴⁴ Component 4 is technical Project directly increases energy connections, it assistance with the Bank contributing the total is the only project that can be measured directly cost of \$25 million. against Nigeria's electrification targets.

Overall, the project expects to provide a total Nigeria Electrification Project - This World of 600,000 new households with access to ener-Bank project is a \$350 million loan covering five gy over five years. However, given the Nigerian years, approved on June 27, 2018 and ending on government reported the use of between 8 and October 31, 2023. The Bank lists a total project 14 GW of decentralized diesel generators, it is cost of \$765 million, thus over half, \$415 million, unclear how many households are switching or of the electrification costs are being covered eiaugmenting their energy access with the solar options. Thus, it is unclear or difficult to measure ther by the government of Nigeria, commercial debt providers or other financial institutions/ an accurate contribution to increasing the overall donor governments (see African Development rural electrification rate. Although this is unclear, Bank funding below). The main objective of the assessment will assume the rural households receiving solar services from the Electrification the project is "to increase access to electricity services for households, public educational in-Project represent new connections. stitutions, and underserved small, and medium enterprises (SMEs) mainly through Stand-alone In addition, the African Development Bank Solar Systems for Homes (SSH) and mini-grids." (AfDB) is providing \$200 million from the Afri-

Component 1 involves solar-diesel hybrid mini fication Project through the Rural Electrification grids aimed at providing electricity to 300,000 Agency.⁴⁵ It includes solar hybrid mini-grids tarhouseholds and 30,000 SMEs through an estigeting 105,000 new households, 8 universities, mated 15 mini-grid operators.⁴² Total compoand about 20,000 SMEs. It appears this is part of nent 1 costs equal \$330 million with World Bank the same World Bank project, but it is unclear. contribution of \$150 million. In addition, there are two investment sub-components that are im-WBG Priority given to Fossil Fuels not Replemented in parallel, a minimum subsidy tennewable Energy: From 2014 to 2019, out of the WBG's \$2.7 billion in energy sector project der, and a performance-based grant program that target different sets of private developers. finance in Nigeria, \$1.8 billion or 69 percent According to the Bank, "it is expected that most went to oil and gas projects (see Figure 3). The mini grids will use solar generation with battery only renewable energy project finance was the storage, and diesel back-up generation..."43 \$325 million coming from the Nigeria Electrifica-

can Grow Together Fund to the Nigerian Electri-

tion Project (Note: \$25 million went to technical fossil fuels, providing over 5 times more fundassistance is overwhelmingly in support of Nigeria.

assistance not to project finance). The WBG's ing to fossil fuels than to renewable energy in





The WBG's fossil fuel finance included \$125 million (IFC \$75 million equity⁴⁶ and \$50 million loan) to Seven Energy's oil and gas exploration operations and another \$200 million MIGA guarantee for Seven Energy's Accugas gas processing and pipeline facilities. In other words, the same amount of project finance, i.e., \$325 million, provided for all solar rural electrification in Nigeria, went to one company's upstream oil and gas operations (i.e., exploration, extraction, or production). The upstream nature of this in- The fossil fuel project that received the most vestment makes it an exceptional climate risk as it is widely understood that the world cannot remain under 2 degrees warming if the already existing oil and gas reserves are burned. Recognizing this fact, in 2017 the WBG announced it would no longer finance upstream oil and gas after 2019.47

Furthermore, a \$150 million IFC loan went to Dangote Industries to build the world's largest oil refinery and petrochemical complex. In addi-

tion to the direct IFC loan, research conducted by Urgewald shows that IFC provided additional finance through financial intermediaries.48 The Dangote oil refinery received its first \$3.3 billion consignment of loans in September 2013 from a group of 12 lenders.⁴⁹ Of these 12 lenders, 9 are recipients of IFC finance as financial intermediaries and the IFC is a shareholder (equity) in at least 5 of them (see Appendix Table 1A).

public assistance from the WBG is the Azura-Edo 461 MW open-cycle gas power plant. The 461 MW plant is phase 1 of a planned 1,500 MW facility. This project received over \$895 million in WBG public finance, including an IFC loan of \$155 million; MIGA guarantees worth \$495 million; and \$245 million in IBRD guarantees⁵⁰. Figure 4 below is a WBG-produced diagram of all the ways the WBG is supporting the Azura-Edu gas power plant and it shows at least six different WBG interventions. The WBG helped with the equity financing, the debt financing (with IFC WBG assistance not aligned with Paris Cliplaying the transaction advisor), and the governmate Agreement: Overall, the WBG's public ment's Letter of Credit for the power purchasing assistance to develop the oil and gas sector in agreement (see Figure 4 below). Nigeria is counter to making financial flows consistent with a low-GHG development path. With It is very difficult to make sense out of why the regards to the idea that gas is considered by the World Bank, IFC, and MIGA would all put in so Bank to be low-GHG. This is not true. In addimuch funding – more than double the finance tion to carbon dioxide emissions, the global gas given for the whole solar rural electrification sector is one of the largest industrial sources of project – to support one gas power plant when methane emissions, , a GHG with atmospheric Nigeria already has several gas power plants warming 80 times greater than carbon dioxide.⁵¹ that are running significantly below installed ca-This fact alone largely offsets the perceived clipacity due to gas supply issues and transmission mate benefits of gas relative to coal. In addition, inadequacies. On top of everything, the WBG's Nigeria's energy sector is already dominated public assistance to Azura-Edo was used to supby fossil fuels and the WBG's public assistance port an in-efficient gas plant, i.e., an open-cycle should not be used to develop Nigeria's energy gas plant instead of a combined-cycle. sector in a way that further aggravates the climate crisis.



Figure 4. WBG Involvement in the Azura-Edo Gas Power Plant in Nigeria

Source: World Bank, 2015 Africa Energy Yearbook: Nigeria's Electric Power Sector. Note: NBET = Nigerian Bulk Electricity Trading (a government entity)

How does WBG project finance measure up to Nigeria's energy access targets?

The WBG's 2013 Energy Directions Paper specifically pledges that the WBG will focus its energy sector operations on achieving the UN's goal of universal energy access by 2030. Correspondingly, Table 4 provides a summary of the expected new household connections partially funded by the WBG's Nigeria Electrification Project compared to Nigeria's 2020 electrification target.

Table 4. Reaching Nigeria's Access Targets – World Bank's Nigeria Electrification Project (2018-23)

Component	New Rural Household Connections	Total Cost (mil- lion US\$)	WB Contribution (million US\$)
Solar Hybrid Mini Grids	300,000	\$330	\$150
Stand-alone Solar Home Systems	300,000	\$305	\$75
Total	~600,000	\$635	\$225
Nigeria 2020 Target	10 million*		
75% Electrification			
New Household Connections Gap	9.4 million*		

*To reach universal electrification in Nigeria additional urban electricity connections would also need to be made. The assessment only focuses on the rural target because that is where the greatest need exists and the WBG's project focused on rural electrification.

Even though the World Bank Group has been actively involved in Nigeria's energy sector for decades, Nigeria's rural electrification rate has not improved in 40 years. In 1981, the rural electrification rate stood at 26 percent⁵² and in 2017 it was 23 percent. Even though it was long overdue, the World Bank's Nigeria Electrification Project's exclusive focus on rural electrification through off-grid solar is a very welcome development. Unfortunately, the WBG's lone project is wholly inadequate to reach SDG7 and Nigeria's energy access goals.

Significantly inadequate electrification rate:

As previously stated, in order for Nigeria to meet its 75 percent electrification rate by 2020, at least 10 million new rural household connections are needed. The expected 2023 outcome of WBG's partial funding of the Nigeria Electrification Project is only a total of 600,000 rural households or over 9.4 million households short of the goal. If the current pace of electrification universal access by 2030.

During the project preparation stage, the WBG was clearly aware that its project was not enough to address Nigeria's electrification needs. As such, the Bank noted: "Given the scale of the energy access deficit in Nigeria, this project alone, even including leveraged investments, is too small to fully address the national and sub national electricity access challenge. Hence, the project aims to build a sustainable framework Climate Agreement.

for continued investments for expanding energy access after the project ends."

Instead of relying on an unproven "sustainable framework for continued investments", the WBG should have committed to provide sustained WBG finance to ensure Nigeria continues to make adequate progress on energy access. Unfortunately, sustained funding for Nigeria's rural electrification program is completely uncertain, which makes it difficult for the country to plan and sustain the progress even if there are private sector investors involved.

Inadequate WBG funding for energy access - not aligned with WBG's Energy Directions pledge: Given the WBG pledged to prioritize its energy sector assistance to meet the SDG7 goal of universal energy access by 2030, the amount of funding provided to Nigeria for energy access does not make energy access a priority. As shown above, between 2014 to 2019 the WBG continues, Nigeria will significantly fall short of gave \$350 million for increasing electricity connections, which is only 13% of the \$2.8 billion the Bank gave to Nigeria's energy sector.

> While the WBG's Nigeria Electrification Project rightly focuses on increasing rural electrification with off-grid solar, the WBG's overall energy approach in Nigeria makes it very difficult to understand just how serious the WBG is about reaching universal energy access and addressing the climate crisis, including alignment with the Paris

and Capacity Building Assistance

World Bank Group Policy Reform and AS operations addressing the energy sector in Nigeria. WBG documents for each operation were reviewed to determine if the operation had In addition to direct project finance covered targets specifically designed to address the chalabove, the WBG provides development policy lenges to increasing energy access. The last colfinance (DPF), technical assistance (TA) and adumn specifies if the assistance directly addresses visory services (AS), which involve the drafting Nigeria's electrification strategy, such as support and adoption of new laws and regulations, and for new energy connections and/or off-grid recapacity building of government institutions. newable energy solutions. Table 5 below lists recent and/or active DPF, TA

Table 5. Nigeria: World Bank Group Policy Refor

Project	Amount (million US\$)	WBG In- strument	Approval Date	End Date	Energy Access Targets
Nigeria Lighting Africa	2.8	IFC Adviso- ry Services	1-Jul-14	30-Jun-17	Yes
Nigeria Kaduna State Economic Transformation Program-for-Re- sults Project (Priority PPP projects)	350	IBRD - DPF	20-Jun-17	31-Mar-21	No
Gas Sector Development, joint IDA-IFC-MIGA Energy Business Plan (EBP)	not avail- able	Technical Assistance	not avail- able	not avail- able	not avail- able

Note: World Bank Group divisions - IFC=International Finance Corporation; IDA=International Development Association. TA = technical assistance; DPF = development policy finance

In 2014, IFC provided \$2.8 million for advisory WBG-joint Energy Business Plan for Nigeria: services in support of the Nigeria Lighting Af-The WBG's Energy Business Plan (EBP) for Nigerica program aimed at accelerating the develria is not disclosed on the WBG's website. Howopment of the market for off-grid lighting prodever, the EBP for Nigeria is referred to in several ucts (mainly solar) in order to avoid the current WBG documents linked to their work in Nigepredominant use of kerosene for lighting. The ria.⁵⁴ According to the WBG's Nigeria Country advisory services include such activities as pro-Partnership Strategy (FY2014-17), the EBP was moting the adoption of Lighting Global quality developed jointly by IDA/IBRD, IFC and MIGA standards across the sector; working with the prito help mobilize private investment in new genvate sector to build supply chains to extend diseration capacity totaling 1,500 MW, for the bentribution to rural areas; and developing financefit of independent power producers (IPPs) with ing facilities to meet the off-grid lighting market the main focus on development of the natural demand. According to the IFC, outcomes ingas sector, from upstream gas development clude 2 reports and approximately 770,000 peothrough generation and transmission. The Bank ple receiving access to improved lighting.⁵³ considers these activities as contributing to addressing energy access (i.e., grid-connected Nigeria Kaduna State Economic Transformagas) – though not rural access.

tion Program-for-Results Project: This DPF involves assistance for the development of in-Overall, WBG policy-based assistance and advestment policies in support of Public Private visory services are largely centered on gas de-Partnerships (PPP) and support for Nigeria's privelopment with no direct measures aimed at increasing energy access. Only a very modest ority PPP projects. The AKK gas pipeline is one of Nigeria's priority PPP projects and is by far the amount of advisory assistance is provided for solargest PPP project in terms of cost at \$2.8 billar lighting solutions. lion. None of the new PPP-related policies require contribution to new energy connections.

orm a	nd Ca	pacity	Building	Operations
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WBG Country Partnership Framework

The Country Partnership Framework (CPF) lays out the WBG's current and planned program of engagement in a member country. The CPF places individual WBG activities into an overall strategic context for a country and lays out the country-specific development goals. As such, the CPF is intended to be linked to a country's national development strategies, such as poverty reduction strategies; national electrification strategies; and climate change goals.

Bank staff, in consultation with country authorities, develops a CPF for each country normally every four years. The WBG's website currently posts a CPF for Nigeria that was published in March 2014 and covers the period FY2014 to FY2017 (note: Nigeria's 2014-17 CPF goes by older WBG terminology, i.e., Country Partnership Strategy). There is no information regarding either an extension of the current CPF or the preparation of a new CPF. The following section focuses on determining if the WBG's 2014-17 CPF specifically targeted universal energy access by 2030 and climate goals (note: the CPF was published before the Paris Climate Agree-

ment, but the WBG had already pledged to assist countries to address climate change and limiting global average warming to 2°C).

For the Nigeria Country Partnership Strategy (FY2014 to FY2017), the WBG's support was structured around three strategic priorities:

- Promoting diversified growth and job creation by reforming the power sector, enhancing agricultural productivity and increasing access to finance;
- 2. Improving the quality and efficiency of social service delivery at the state level to promote social inclusion:
- Strengthening governance and public sector management with gender equity and conflict sensitivity as essential elements of governance.

The rest of this section focuses on the Results Framework, i.e., the country-specific targets and indicators to monitor WBG performance towards achieving the specified development goals/ objectives. Table 6 below provides the power sector development goal and the indicators of progress towards that goal for Nigeria.

Table 6. Nigeria Country Partnership Strategy: Results Framework FY2014-FY2017

Engagement Area: Power Secto	or Reform	
	rease the power generation and trans city delivery and access to modern ligh	
Development Challenges ad- dressed by CPS	CPS Outcomes and Indicators	WBG Program
	1.Increased power generation and transmission capacity.	Ongoing Finance : Ni- geria Electricity and Gas
Nigeria's electricity consumers, including the poor, are provid-	Outcome Indicators : 16 percent increase in generation	Improvement Project (NEGIP) IDA, and NEGIP Guarantees
ed with unreliable service due to poor quality of supply, high losses and a lack of generation capacity to service demand.	capacity supported by the WBG interventions by 2017 (Baseline: 6000MW in 2012) 8 percent increase in transmission capacity (Baseline: 8588 MVA on 330kV level in 2013)	New Finance : Power Sec- tor Guarantees, Transmis- sion and Access Project; Gas Sector Development Project, joint IDA-IFC-MI- GA Energy Business Plan (EBP)

The transmission system re- mains a key bottleneck to a successful sector reform. The existing wheeling capacity is estimated at 4,800 MW while demand is over 10,000 MW. The Government's investments in new power plants are there- fore in risk of becoming strand- ed.	Outcome Indicator:	IFC investments (project development funding, equity, mezzanine and debt) in IPPs, gas infra- structure, and select pri- vatized generation and distribution companies
The Nigerian distribution net- work is heavily dilapidated with high losses, poor voltage pro- file and inaccurate metering and billing functions.	3. Improved access to modern light- ing for the base-of-the – pyramid through supporting the value chain of procuring and distributing solar products such as lanterns and cook- stoves	IDA-IFC Advisory Services program: Lighting Africa AS Program
The poorest rely on kerosene lamps for light at high cost and poor quality while exposing themselves to safety hazards such as fires and explosions.	Outcome Indicators: 1 million solar lanterns distributed; 5 million people with improved en- ergy services (assumes industry esti- mate of 5 people per household) 100,000 tCO2 GHG avoided	

Source: World Bank Group Country Partnership Strategy for the Federal Republic of Nigeria for the period FY2014 to FY2017. March 13, 2014.

According to the Nigeria CPF, the Bank has In conclusion: been "the main interlocutor for the Government [of Nigeria] on power development for the past 15 years;" i.e., since 2000. The CPF also provides that Nigeria's Electric Power Reform Act passed back in 2005 included a mandate that within one year of passage a Rural Electrification • Strategy and Agency were to be set up to drive rural electrification with the bias to use solar and mini-grids.

Even though rural electrification based on goals of the Paris Climate Agreement. off-grid solar was clearly a priority for the The CPF did not prioritize rural energy acgovernment of Nigeria since 2005 and the cess and was not in alignment with the priori-WBG had pledged in 2013 to center its enties of the Nigerian government or the SDG7 ergy sector assistance around reaching unigoal to reach universal access by 2030. versal energy access by 2030, the WBG's CPF for FY14-FY17only planned to provide very WBG Proposed Operations minor assistance to rural lighting, i.e., just the According to the International Finance Corpora-\$2.8 million advisory services for Lighting Aftion's (IFC) website (as of March 24, 2020), the rica. A great majority of the Bank's assistance IFC has a pending oil refinery project, ND Rewas directed to gas development from upstream fineries Ltd. (NDRE) (project number 40755). to downstream. As it turns out, Nigeria did This project involves expanding the oil refinery's not begin to institute its rural Strategy until capacity from existing 1,000 barrels of oil per 2017, and hence, the country is far behind on day (bopd) to 11,000 bopd at NDRE's existing progress necessary to meet universal access facilities in Port Harcourt, Nigeria. The project by 2030.

- The CPF prioritized gas development along the entire supply-chain and grid-connected power generation over off-grid renewable solutions for rural energy access.
- The CPF did not consider the climate change impacts of continuing public assistance for significant expansion of Nigeria's gas development. Future CPFs should prove all planned assistance is in alignment with the

sponsor is Niger Delta Exploration & Production PLC (NDEP), which has integrated assets in both the upstream and downstream oil and gas sector. The total project cost is listed at US\$ 140 million, with the IFC planning to provide US\$35 million and mobilizing an additional US\$15 million.

It is unclear when the project will go up for approval by the WBG's Board of Executive Directors. The original planned Board date for this project was February 28, 2020. However, the project was not listed on the Board's schedule for February or March 2020. If the IFC approves this project, it will facilitate the ND Refinery to process 10 times more barrels of oil a day.

 The IFC's proposed finance of the ND oil refinery represents public assistance for the expansion of oil production and thereby is not in alignment with the Paris Agreement or the WBG's pledge to stop financing upstream oil development; and should not go forward.

Update: IFC Board approves finance for ND oil refinery in Nigeria

After this report was finalized, on May 15, 2020, the IFC's Board approved a \$35 million loan for the capacity expansion of ND Refineries Ltd. It is not disclosed how much additional finance was mobilized under the IFC syndicated loan, but \$15 million was listed in the original project summary.

See: https://disclosures.ifc.org/#/projectDe tail/SII/40755

In addition, MIGA's website lists two pending solar projects, Pan Africa Solar Limited; and Nigeria Solar Capital Partners. However, these projects were supposed to go to the Board in 2017, so it is unclear whether or not these projects are still being considered.

Conclusions and Recommendations

Overall, the WBG's energy sector assistance in Nigeria undermines the Paris Climate Agreement goals and falls considerably short in what is necessary to meet Nigeria's energy access goals. Main findings include:

Oil and gas the overwhelming priority: The WBG's assistance is overwhelmingly in support of fossil fuels, providing over 5 times more funding to fossil fuels than to renewable energy in Nigeria. From 2014 to 2019, the WBG provided \$1.8 billion or 69 percent of total energy sector finance to oil and gas projects, including for multiple oil and gas exploration operations and one of the world's largest oil refineries (another oil refinery is pending approval). Meanwhile, Nigeria's vast potential for renewable energy (e.g., 427 GW solar⁵⁵) remains mostly untapped. Only 13 percent of WBG energy finance in Nigeria supported renewable energy.

WBG focus on gas expansion – misguided and GHG-intensive: The WBG's Energy Business Plan (EBP) for Nigeria focused on the development of the gas sector, from upstream gas production through downstream power generation. Correspondingly, from 2014-19, the WBG funded over \$1.1 billion for gas processing, transport and power generation, including for inefficient open-cycle plants. The production, transport and burning of gas emits significant GHG emissions. In addition to carbon dioxide emissions, natural gas is one of the largest sources of global methane emissions, a GHG with atmospheric warming 80 times greater than carbon dioxide.⁵⁶

Non-alignment with Paris Climate Agreement, facilitating high-GHG development path: The WBG has clearly prioritized fossil fuel development over renewable energy in Nigeria, including operations involving oil and gas exploration, and the world's largest oil refinery and petrochemical complex. Nigeria is already a top producer and exporter of oil in the world. Using the WBG's public assistance to expand oil and gas reserves and production is clearly counter to "making financial flows consistent with a low-GHG development path" and therefore, the WBG's energy portfolio in Nigeria is not in alignment with the Paris Climate Agreement. Increased WBG assistance for mini- and offgrid solar a positive step forward: According to the World Bank, the Bank has been "the main interlocutor for the Government [of Nigeria] on power development" since 2000.⁵⁷ Yet, in 2017 Nigeria's rural electrification rate remained as low as it was in 1981 (~ 24 percent). This suggests that the WBG had failed to adequately prioritize solutions for rural energy access. In 2018, the WBG took a significant step forward with the Nigeria Electrification Project for \$350 million. This WBG Project rightly focuses on increasing rural electrification mainly with mini- and off-grid solar solutions (i.e., stand-alone-home systems and hybrid-mini grids).

Significantly inadequate electrification rate:

In order for Nigeria to meet its target rate of 75 percent electrification by 2020, at least 10 million new rural household connections are needed. The expected WBG 2023 outcome is only 600,000 new rural household connections, which is a whopping 9.4 million households short of the goal. There is no indication that this gap will be closed by a significant degree by the government or any other funder (the government and others are already financing fifty percent of the total project costs involved in the WBG-accounted 600,000 new connections). If the current pace of electrification continues, Nigeria will significantly fall short of universal access by 2030.

Inadequate and uncertain funding for energy

access: Only 13% of WBG energy sector project finance in Nigeria (\$350 million out of \$2.7 billion) is targeting new energy connections. Despite the WBG's 2013 pledge, it does not appear the WBG's energy practice in Nigeria is centered on achieving universal access by 2030. Unfortunately, sustained funding for Nigeria's rural electrification program is uncertain, which makes it difficult for the country to plan and sustain progress. At this point, the WBG has not provided any plans to continue funding Nigeria's rural electrification program.

Recommendations

The WBG has committed to assist countries to meet the goals of the Paris Climate Agreement, and to center their energy practice on achieving universal access to energy by 2030. In order to help Nigeria reach these goals, the WBG should:

- Scale up funding for renewable energy, including mini- and off-grid solutions: From 2014 to 2019, the WBG supported no utility scale renewable energy projects in Nigeria. This lack of assistance is unacceptable. The WBG needs to provide significant assistance to Nigeria to develop the country's renewable resources. Even the substantial WBG funding for mini- and off-grid solutions in Nigeria needs to be significantly increased and sustained for Nigeria to reach universal access by 2030.
- Provide more and sustained funding for new household connections: Nigeria has the second highest energy access deficit in the world. Given the WBG's finance (2014-19) directed at new household connections represents only 13% of its overall energy sector finance in Nigeria, the WBG can and should direct more finance to connections. To reduce uncertainty in funding for Nigeria's electrification strategy, the WBG should commit to long-term (e.g., 10-year), sustained funding for new household electricity connections. The 10-year WBG funding commitment needs to be reflected in an updated Country Partnership Framework for Nigeria. Correspondingly, the WBG needs to transparently report direct WBG contributions to new household connections within the context of other sources of energy access funding.
- **Perform a gap analysis on universal access by 2030.** Given that the electrification rate is inadequate, the WBG should assist the government to identify where gaps exist and how the gaps will be addressed in order for them to achieve annual electrification targets necessary to reach universal access by 2030.

Appendix

Table 1A. IFC Financial Intermediaries involved in Syndicated Loan for Dangote Oil Refinery in Nigeria

Financial Intermediary	IFC Amount (million US\$)	Approval	IFC Description
Guaranty Trust Bank V & VI – GTB (Lead bank for Dangote syndication loan)	\$30 equity \$170 loan \$175 loan	July 2011 July 2011 Dec 2014	IFC has provided GTB finance to sup- port GTB's medium to long term funding requirements. In 2014: US\$100 million IFC's own account, US\$75 million from IFC's Managed Co-Lending Portfolio Program ("MCPP") and syndicated B/ parallel loan of US\$75 million total: \$250 million
Zenith Bank	\$100 Ioan	Apr. 2015	IFC has provided finance to Zenith Bank since 2006 to support long-term lending including to infrastructure projects. Ze- nith Bank also has an IFC pending loan of \$45 million.
CAPE I to IV - Capital Alliance Private Equity - African Capital Alliance (ACA)	\$40 equity	Jan. 2015	ACA plans to invest the fund in the business services, energy, fast-moving consumer goods, financial services, tele- communications, media and technology sectors. IFC invested in CAPE I in 1999; CAPE II ; CAPE III; & CAPE IV (2015).
FCMB II & III – First City Monument Bank	\$75 \$87.5 Ioans	Oct. 2011 May 2014	To fund a pipeline of infrastructure and industrial projects, to introduce ener- gy efficiency lending and to grow SME business. In 2014: \$37.5 is from IFC's Managed Co-Lending Portfolio Program (MCPP)
Diamond Bank Plc.	\$70 \$70 Ioans	June 2012 May 2014	2012: US\$70 million to support its ex- pansion strategy; 2014: US\$50 million for Bank's SME portfolio; US\$20 million for agribusiness .
ABN MF Bank Loan - Access Bank	\$11.3 guarantee \$5 \$5 loans	Oct. 2012 Nov. 2013 Feb. 2014	This is described as a micro finance bank for small and medium enterprises (SME). Shareholders: AccessHolding (60.1%); IFC (15%); AfDB (12.35%) and KfW (12.5%).

Ecobank RSF (Risk Shar- ing Facility) - Ecobank Transnational Incorporat- ed (ETI)	\$55 guarantee	May 2015	Support to SME banking ETI serves corporate, SME and retail clients and operates through its subsidiaries across the Sub Saharan Africa region, with 41% of group assets in Nigeria. IFC Asset Management Co. 14.1% shareholder.
Firstrand SL; Firstrand Bank Ltd. (South Africa)	\$200 Ioan	Dec 2017	An existing IFC client, up to US\$50 mil- lion will be allocated for on-lending to women-owned SMEs
Firstrand SL; Firstrand Bank Ltd. (South Africa)	\$200 Ioan	Jun 2017	Aimed at SMEs
Accion Nigeria (ACCION MI- CROFINANCE BANK LTD)	\$2.1 \$3.3 Ioans	Mar. 2015 Oct 2017	The shareholders of Accion Microfinance Bank in- clude Accion Investment Fund (35.77%) , Ecobank Nigeria (21.73%); Citibank Nigeria (19.91%); IFC (12.60%); Zenith Bank Nigeria (7.33%)

Source: Urgewald, 2018. \$10 billion dollars of World Bank financing pushing Africa's fossil fueled development. <u>https://urgewald.org/shop/10-billion-dollar-world-bank-finance-pushing-africas-fossil-fueled-development</u>

Note: Gray shading indicates IFC is a shareholder.

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The World Bank Group includes: International Development Association (IDA), International Bank for 16 Reconstruction and Development (IBRD), International Finance Corporation (IFC), and Multilateral Investment Guarantee Agency (MIGA).

17 https://data.worldbank.org/indicator/EG.ELC.ACCS.ZS?locations=NG

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22 It should be noted it does not meet the SDG7 goal of universal electrification by 2030.]

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