# The Market for Renewable Energy in Nigeria





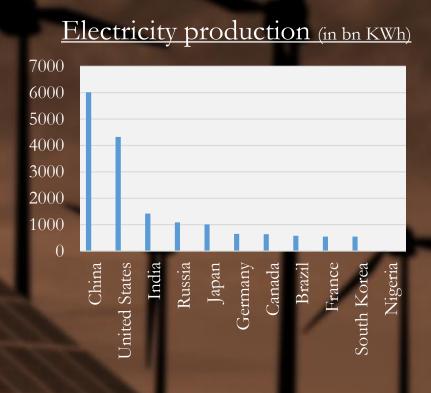
## Renewable Energy in Nigeria

Nigeria has one of the largest populations in distribution as one of the critical elements in the 2017(population.gov.ng). In Nigeria, every policy debate in recent times. approximately 60% of the population does not have access to stable or any electricity, and those that do only have a per capita electricity consumption of 151kWh per year. Ghana, on the other hand, has a per capita electricity consumption 3 times higher than Nigeria while South Africa's electricity consumption is 30 times higher (Heinrich Böll Stiftung Nigeria, 2017).

In benchmarking against the top 10 fastest growing economies, Nigeria's power generation and distribution capacities are a far cry from levels that can fast-track the level of economic and industrial development required as a nation.

With this alarming shortfall on the supply of electricity, increasing electrical power generation

Africa with an estimated 182 million people in growth of the Nigeria economy has been top of





### Renewable Energy in Nigeria

This has spurred the Federal Government to physical features within its 923.78 thousand sq. initiate significant developments in regulatory and km landmass. The country has huge potentials for legal frameworks to improve investor confidence solar and wind energy among other forms of and foreign direct investment in the energy market. renewable energy. Resources in the Northern part A number of policies and plans such as the of the country provide viable potentials for Electric Power Sector Reform Act (EPSRA) have photovoltaic or concentrated solar use, with been put in place by the government. The insulation of up to 7 kWh/ m/day; whilst with its realization of 14 signed Power Purchase massive population, there exists huge volumes of Agreements (PPAs) in 2016 were off-shoots of this organic wastes which portend more than enough mission. However these attempts have barely opportunities for conversion of waste to electric scratched the surface and are still a far cry from energy. creating the enabling environment for the growth the of sector.

With this in view, discussions to facilitate investments around alternatives to usage of fossil fuels such as renewables, which are derived from natural processes that are replenished constantly, have started gaining traction. Nigeria has varying temperatures and natural and



#### Benefits of Renewable Energy

There is an abundance of wind energy prospects projected that the nations' CO<sub>2</sub> reduction within Nigeria, especially in the coastal states, with initiatives would lead to an 8% per capita reduction about 700-800km of coastline, where there are in CO<sub>2</sub> emissions by 2025 and 9% by 2030. industry are obvious with some European producers' hub, the renewable energy sector countries already generating energy in excess of development has remained limited. Nigeria's required usage. Also, an improved public health renewable energy resource potential has not been system, rural development, a more reliable and fully exploited, mainly due to the low investment resilient energy system amongst numerous others levels as a result of several factors ranging from are some identified advantages. Further growth of poor policy implementation to lack of knowledge increase due to the recent drive to reduce carbon absence of an enabling environment. emissions as a means to ensure a safer and more sustainable

(INDCs) to combat climate change. Together, it is

strong winds that could be utilized in generation of Despite the apparent resource endowment in power. Globally, the benefits of the renewable Nigeria, which makes it the ideal renewable energy the global renewable industry is expected to by the policy makers and regulators and the

planet for everyone. There are also problems around high vulnerability and the weak national grid which is unable to In 2015, over 140 countries including Nigeria wheel sufficient energy to the distribution submitted to the UN's Framework Convention on companies. Apart from these, there is the concern Climate Change (UNFCCC) secretariat their that start-up capital costs of renewable power Intended Nationally Determined Contributions projects in Nigeria are high, relative to other places.



# Conclusion

There is no question of the importance of renewable energy to economic growth. However, these challenges have to be addressed to ensure Nigeria can meet its "30:30:30 electricity vision" target which aims to generate 30 GW of installed on-grid electricity capacity by 2030, of which 30% of total energy capacity is to be covered by renewables. The largest source and potential to meet its target lies with solar energy. For the opportunities in this sector to be fully realized, the government will have to take some critical decisions that will require major investments in the form of research and should also facilitate an environment that promotes ease of doing business that can guarantee an influx of required financing to fast-track the growth of the industry. Investors also should key into the varied forms of renewable energy sources.

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