



# Clean Fuels And Refining Standards In The Age Of Zero Carbon

**A Presentation By:**

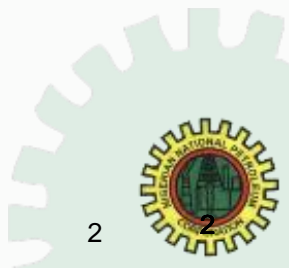
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**At The OTL Africa Downstream Week, Lagos**

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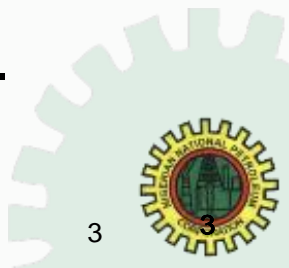
# Presentation Outline

- **Introduction**
- **The Clean Fuels Initiative (CFI) in Nigeria**
- **NNPC Renewable Energy Division**
- **Refining Standards for The CFI**
- **Benefits of the CFI for Nigeria**
- **Conclusion**



# Introduction

- Overtime, mankind has utilised Energy from Fossil Fuels to drive Businesses and promote Economic Growth and Development
- The Exploitation of fossils represents a significant source of environmental pollution beyond International Boundaries.
- Has significant impacts on health, with the emission of Short-Lived Climate Pollutants (SLCPs).
- The global aspiration to achieve net-zero emissions by 2050, will require a major shift to low-carbon and non-emitting fuels.



# The Clean Fuels Initiative in Nigeria

- Clean Energy is energy gained from Sources that do not release Air Pollutants.
- The Clean Fuels Initiative (CFI) - the Deployment of Climate-compatible Technologies that enable the replacement of Carbon-Intensive Fuels with low-Carbon or Carbon-Neutral Alternatives
- To speed up the Transition to Clean Fuels, the FGN March 29, 2021, declared the “**Decade for Gas**” to promote a switch from high-Carbon Intensive Fuels to low-Carbon Sources.
- The gas reserves in Nigeria is estimated to be about 206 trillion cubic feet (tcf) of gas



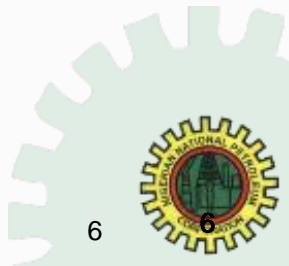
## The Clean Fuel Initiatives in Nigeria Cont'd

- The National Gas Expansion Programme (NGEP) & the National Autogas Roll-out Initiative using LPG, CNG and LNG as alternative fuel options for transportation, industrial use, and domestic use.
- The CBN furthering this initiative, introduced the N250 billion intervention facility to help fast-track investments in the gas value chain
- Through the Renewable Energy Division of NNPC, the FGN is investing in sustainable Renewable Energy Industry Schemes in Nigeria



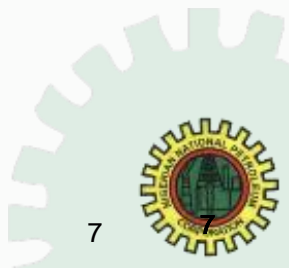
## NNPC – Renewable Energy Department (RED)

- Through the RED, NNPC intends to engage in commercial in-country production of biofuels; exploit solar, wind, and waste to energy; participate in global carbon emissions reduction initiatives, and coordinate oil & gas sector activities to Nigeria's NDC towards "Paris Agreement" on climate change
- NNPC aims to partner with investment companies to fully develop and finance the renewables' energy initiatives.
- Core investors provide 70% of the required funding, host state government provides equity in the form of land and funds, while NNPC takes up the balance equity contribution.



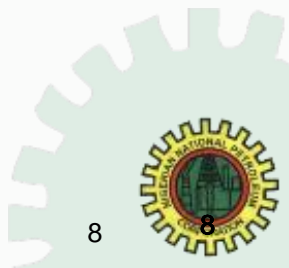
# Refining Standards for the CFI

- These Standards shall contain Requirements that relate to sources of contaminants associated with:
  - Products Quality
  - Storage Vessels
  - Pipeline Integrity
  - Equipment Leaks
  - Sewage Treatment Operations
  - Loading Bay Operations, and
  - Road and Marine Vessel Products Movements



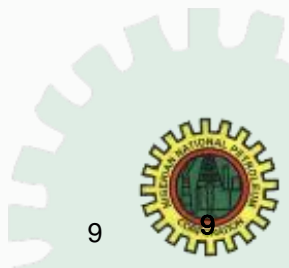
# Benefits of the CFI for Nigeria

- Cleaner environment - reduction in Air & Noise Pollution
- Provision of Alternative Energy by Profitably Exploiting Renewable Energy Sources Emissions
- Creating Sustainable Wealth and Jobs Creations
- Diversifying Nigeria's Fossil-based Economy
- Driving Innovation in multiple Economic Sectors
- Collaborating in the Transfer of Smart Technologies
- Promoting Investments in low-Carbon Fuels & Tech.
- Development of Solar Energy Photovoltaic Technology
- Earning Carbon Credits from emission reduction projects



# Conclusion

- Energy from Clean Fuels is the future power need of Humanity across the globe - as reliance on Fossil Fuels continues to diminish
- Ahead of the 26<sup>th</sup> COP, the GMD advocates for energy justice
  - Allow each country to progress at their own pace to net zero in 2050
- Gas development is the only option for Nigeria to achieve energy transition



*Thank You*

Dr Billy Okoye

