



SUCCESS AND CHALLENGES IN COMMUNICATING AIR POLLUTION AND HEALTH INFORMATION IN LAGOS



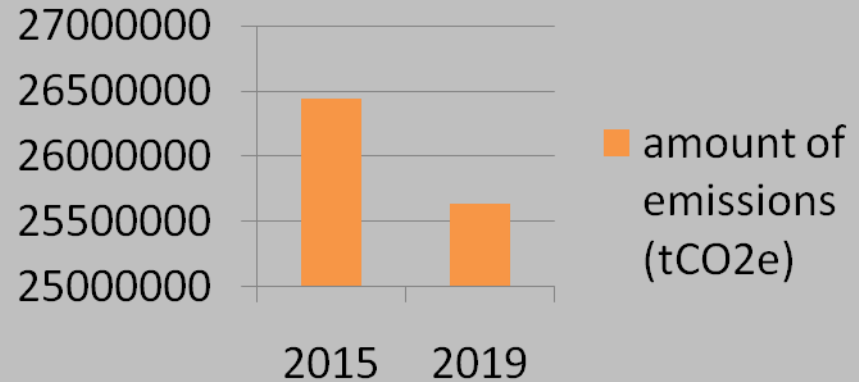
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- As Lagos is the economic center of Nigeria, Lagos State's GHG emissions account for a large share of national emissions.
- The large population of the state, rapid urbanization and industrialization result in high GHG emissions primarily from energy consumption, transport, and waste.

amount of emissions (tCO₂e)



Lagos Air Pollution



Lagos' air pollution is 6-10 times higher than the WHO's recommendation level. Lagos' PM_{2.5} concentration is similar to other polluted cities like Beijing, Cairo, and Mumbai.

Lagos has recorded levels of 68 $\mu\text{g}/\text{m}^3$ (Beijing (73 $\mu\text{g}/\text{m}^3$), Cairo (76 $\mu\text{g}/\text{m}^3$) and Mumbai (64 $\mu\text{g}/\text{m}^3$).

In 2018, ambient air pollution led to about 11,200 premature deaths, the highest in West Africa.

The study estimates that illness and premature deaths due to ambient air pollution caused losses of \$2.1 billion in 2018, representing 2.1% of Lagos State's GDP.

WHO recommends an acceptable annual mean PM_{2.5} concentration level of 10 $\mu\text{g}/\text{m}^3$



Current state of Lagos GHG Emission -

Comparison between base year 2015 GHG Inventory Data and 2019 Data

TOTAL

Total emissions in Lagos State were estimated at **26,443,656 tCO₂e** in 2015

TOTAL

Total emissions in Lagos State were estimated at **25,634,626 tCO₂e** in 2019

STATIONARY ENERGY

Stationary Energy produced the highest share of emissions at **14,563,211 tCO₂e**

55%

STATIONARY ENERGY

Stationary Energy produced the highest share of emissions at **13,558,760 tCO₂e**

53%

TRANSPORTATION

The transport sector activities emitted **5,190,997 tCO₂e** in Lagos State

20%

TRANSPORTATION

The transport sector activities emitted **4,654,904 tCO₂e** in Lagos State

18%

WASTE

Decomposition of solid waste and wastewater treatment emitted **6,689,448 tCO₂e**

25%

WASTE

Decomposition of solid waste and wastewater treatment emitted **7,420,960 tCO₂e**

29%

tCO₂e = tonnes of carbon dioxide equivalent

Data Source: Lagos State greenhouse gas emissions snapshot in 2015 & 2019

Waste outlook in Lagos



- ❑ 13,000 tonnes/day waste generated;
- ❑ Non – source sorting;
- ❑ Primary cause of blocked drainage channels;
- ❑ 43% organics, plastics 23%, paper 13%
- ❑ less than 15% of waste is recycled;



Communication Challenges .



- Limited funding for advocacy;
- Simplifying scientific terms in local languages;
- Language barrier;
- Communication Vehicles (i.e. Technology and channel of communication);
- Lack of public volunteers ;
- Variability of public perception.



Communication Strategies

SUCCESS STORIES



Developing Cities
Art installation by
Patrick Akpojotor



Community Recycling Bank



SENSITIZATION OF
INFORMAL RECYCLERS



Clean up exercises in public spaces (e.g. Streams, Rivers, Lagoon Etc)



Partnership with Private Sector on recycling Initiative



THANK YOU