

# CURRENT STATUS OF WASTE MANAGEMENT AND PLASTIC MANAGEMENT IN NIGERIA, POLICY & INDUSTRY ASPECTS

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# Country Facts

# Country Facts

- Nigeria is in West Africa
- Capital is Abuja
- Population of about 181,562,056 (July 2015 est)
- 70% of population engaged in agriculture
- Identified as regional power in Africa
- Largest GDP in Africa, 2014



# Waste Management in Nigeria

*Policies and Programmes*

# Waste Management in Nigeria - *Policies*

- Huge tonnes of waste generated annually through economic and social activities from growing population
- Government has policies, programmes and projects that aid management of waste
- First National policy formulated in 1991 with subsequent revisions
- Policy document is a framework to aid management of resources for sustainable development

# Waste Management in Nigeria - *Policies*

- National Policy on Plastic lifecycle management was developed to drive resource efficiency, cleaner production and protection of the environment as stated in section 20 of the 1999 constitution
- Nigeria is party to several international treaties and multilateral Environmental agreements including;
  - Basel Convention
  - Montreal Protocol
  - Climate Change Convention

# Waste Management in Nigeria - *Policies*

- Key Sustainable Development Goals achievable with the policy are goals;
  - 3 - Good Health and Well-being
  - 6 - Clean Water and Sanitation
  - 9 - Industry, Innovation and Infrastructure
  - 11 - Sustainable Cities and Communities
  - 12 - Responsible Consumption and Production
  - 14 - Life Below Water
  - 17 - Partnerships to achieve the Goal



# Waste Management in Nigeria - *Policies*

## Existing Policies and frameworks:

- National Policy on Environment 1999 (Sub section 6.1 Section 6.0)
- National Policy on Environmental Sanitation, 2005
- National Policy on Chemical Management, 2010
- National Policy on Municipal & Agricultural Waste Management, 2012
- National Healthcare Waste Policy, 2013
- National Policy on Solid Waste Management, 2018
- National Policy on plastic life cycle management (Draft), 2019

# Waste Management in Nigeria - *Programmes*

Some Government Pilot/Intervention projects;

- Community Based Solid Waste Management projects
- Hospital Waste Intervention Scheme: (Provision of Bio-Medical Incinerator to Tertiary Healthcare institutions of Nigeria
- Establishment of Material Recovery Baling Centre
- Establishment of Integrated Waste Management Facilities
- Establishment of Briquetting Plants
- Establishment of Transfer loading Stations
- Establishment of Scrap Metal Recycling Plants
- Establishment of Plastic Recycling Plants in 26 cities in Nigeria, etc



# Advent of Plastics

# Advent of Plastics

Plastics was invented in 1907. It increased in production due to increase in plastic packaging and availability of raw materials.

Plastics are a problem mostly due to their non-biodegradable nature and improper disposal leading to pollution.

Global plastic production exceeded 311 million metric tons. From 2.5 billion metric ton of solid waste generated in 192 countries, about 275 million tons were plastic waste (UNEP, 2016).

Longevity of plastics is estimated to be hundreds to thousands of years.

Plastic waste are major cause of litter in environment, water pollution, flood and general environmental degradation



# Nigeria's per capita plastics consumption

- Nigeria has about 70% of raw materials imported (mainly from the Middle East, Europe and Asia) and only about 30% produced locally
- The per capita consumption of plastics in Nigeria has grown by about 5% annually over the past ten years, from 4.0 kg in 2007 to 6.5 kg in 2017 and is estimated to be 7.5 kg in 2020

# Advent of Plastics - Volume of plastic waste between 2007 and 2017

State	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Abia	80024023.5	82155249.38	843734456.3	86775711.38	89150574.75	103563101.6	94097073	96672294	99318005.63	102034837.5	104716410.4
Abuja(FCT)	42247645.88	45988959.75	50265920.25	55843248	61285836	67258869.38	73814032.13	81008072.63	88903269	97567237.5	100248810.4
Adamawa	89584386.38	92144332.13	94816515.38	97727326.5	100602906	103563101.6	106610404.5	109747387.9	112976652.4	116299950	118981522.9
Akwa Ibom	110512929.8	114205789.9	118088796.8	122380211.3	126612660	130991510.3	135521799	140208754.9	145057825.5	150075225	152756797.9
Anambra	117615592.5	120862322.3	124246474.5	127922115.8	131554559.3	135290151.8	139131795	143082555	147145470.4	151323525	154005097.9
Bauchi	131782976.3	136186600.9	140816945.3	145934290.9	150981392.3	156203009.3	161605246.5	167194290.8	172976629.9	178958587.5	181640160.4
Bayelsa	48034091.25	49406673.75	5083948125	52400239.5	53942081.63	55529311.5	57163215.75	58845217.88	60576741.38	62360250	65041822.88
Benue	119989662	123534834	127240861.5	131289596.6	135287961.8	139408090.9	143653707	148028615.3	152536730.3	157181775	159863347.9
Borno	118132980	122080482.4	126231216.8	130818500.3	135342821.3	140023590.4	144866255.3	149876400.4	155059801.9	160422975	163104547.9
Cross-River	81525843.38	83855483.25	86287314	88936283.25	91553196.38	94247088	97020285	99875059.5	102813847.9	105839962.5	108521535.4
Delta	116238931.1	119898475.9	123735219	127951051.1	132111722.6	136407654	140843307.4	145423172.3	150151984.5	155035575	157717147.9
Katsina	163655113.9	168490387.5	1735450991	179067184.1	184520612.6	190140097.9	195930731.6	201897715.1	208046413.9	214381837.5	217063410.4

# Advent of Plastics - Volume of plastic waste between 2007 and 2017

State	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Kebbi	91954678.13	94760643	97698226.88	100915993.9	104094149.3	107371593.8	110752269.4	114239351.6	117836235	121545000	124226572.9
Kogi	93484831.13	96246886.5	99134292	179067184.1	105403851.4	108613871.3	111921647.3	115330163.3	118842512.6	122462062.5	125143635.4
Kwara	66723523.88	68694907.13	70755751.88	73007154	75230551.5	77521674.75	79882549.5	82315338.38	84822204	87405637.5	90087210.38
Lagos	257597572.9	265707444	274210091.6	283552850.6	292773298.1	302293529.3	312123371.6	322272844.5	332752350.4	343572675	346254247.9
Nasarawa	52732681.5	54290702.25	55919432.63	57698752.88	59455926.75	61266646.13	63132471.38	65055154.5	67036365.38	69078075	71759647.88
Niger	112006071.8	115748836.5	119684293.9	124033688.6	128323323.8	132761358.8	137352858	142103132.3	147017711.3	152100975	154782547.9
Ogun	106132683.4	109576650	113192695.9	117177510.4	121108888.9	125172160.1	129371731.5	133712229.4	138198362.3	142834537.5	145516110.4
Ondo	97626805.5	100511254.5	103526610.8	106820754	110073916.9	113426177.3	116880519	120440062.9	124108011.8	127887787.5	130569360.4
Osun	96580916.25	99621539.63	102809440.5	106312318.1	109769342.6	113338741.5	117024237.8	120829581.8	124758660.8	85877200	131497372.9
Oyo	158060704.1	163342409.3	168896057.6	175033833.8	109769342.6	187350120	193829563.5	200533071.4	207468418.1	214644637.5	217326210.4
Plateau	90181106.63	92582824.88	95082573	97789768.88	100466058.4	103215576	106040374.9	108942453.4	111923974.1	199944262.5	202625835.4
Rivers	147236766	152156765.3	157330120.1	163047525.8	168686474.6	103215576	180556165.1	186800621.6	193261039.5	199944262.5	202625835.4
Sokoto	104447642.6	107533626.4	110759633.3	114283945.5	117764403	121350856.5	125046536.3	128854782	132778988.3	136822987.5	139504560.4
Taraba	64668619.5	66516541.5	68445520.88	70546771.13	72622590	74759482.5	76959228	7923742.75	81554860.88	136822987.5	139504560.4
Yobe	65810157	68072755.5	70455311.25	73096040.63	75472875	78396114.38	81188556	84080478.38	87075385.5	90175987.5	92857560.38
Zamfara	42247645.88	95595635.25	98654709.38	102016030.9	105333333.4	108758520.8	112295069.6	115946620.9	119716924.9	123609075	126290647.9

# Government Efforts on Plastic Waste Management in Nigeria

*Efforts, Challenges and  
Opportunities*



## Government Efforts on Plastic Waste Management - *Efforts*

- Implemented pilot plastic waste recycling facilities in 26 cities
- Plastic recycling plants as a component of MDG community based waste management
- Installation of pure water sachet recycling plant at Ilorin, Kwara State
- Community based waste management projects at Karu, Nasarawa and Lokoja, Kogi State, have plastic recycling plants as a component
- Action plan for phasing out non-biodegradable plastics
- Development of National Policy on Plastic Life Cycle Management (Draft)

# Government Efforts on Plastic Waste Management - *Challenges*

Challenges faced by the Government include;

- Lack of proper regulatory framework
- Inadequate infrastructures characterized by lack of sufficient funding
- Inadequate capacity of waste managers and regulators
- Lack of sufficient awareness of citizens on the danger of plastic

# Government Efforts on Plastic Waste Management - *Opportunities*

Opportunities embedded in managing plastic waste include;

- Recycling plastic reduce the dependency on importation of virgin raw material from other countries
- Recycling provides cleaner environment and improve aesthetics of the country which will promote tourism and Foreign Direct Investment
- Recycling keeps many tons of plastic out of the waste stream and prevent plastics from getting to the ocean
- Save energy and prevent GHG emissions, etc

# Future Plans

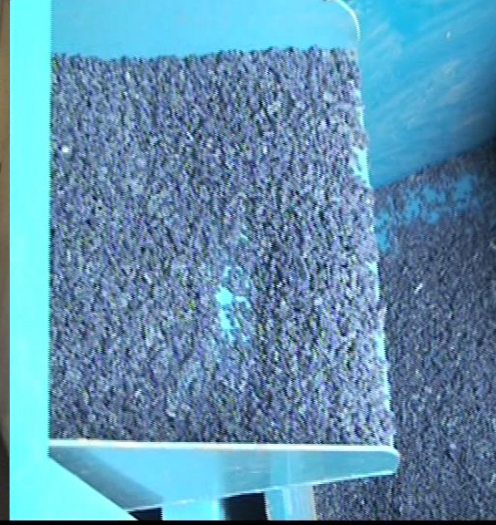
Considering the devastating effect of plastics, the Federal Government is desirous to partner with Stakeholders to;

- Develop a suitable regulatory framework as a guide in the management of plastics in Nigeria (Draft)
- Financing plastic waste management (under EPR).

There are several options available to deal with plastic waste. These includes;

- Tax incentives on plastic to reduce the use of plastics
- Adoption of resource recovery which entails segregation of plastic waste at source.
- Recycling and Reuse.
- Ban on single use plastics.





Thank you



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