

ENVIRONMENTAL AND HEALTH IMPLICATIONS OF FUELS QUALITY IN GHANA



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- WORKSHOP ON LOW SULPHUR FUELS IN GHANA
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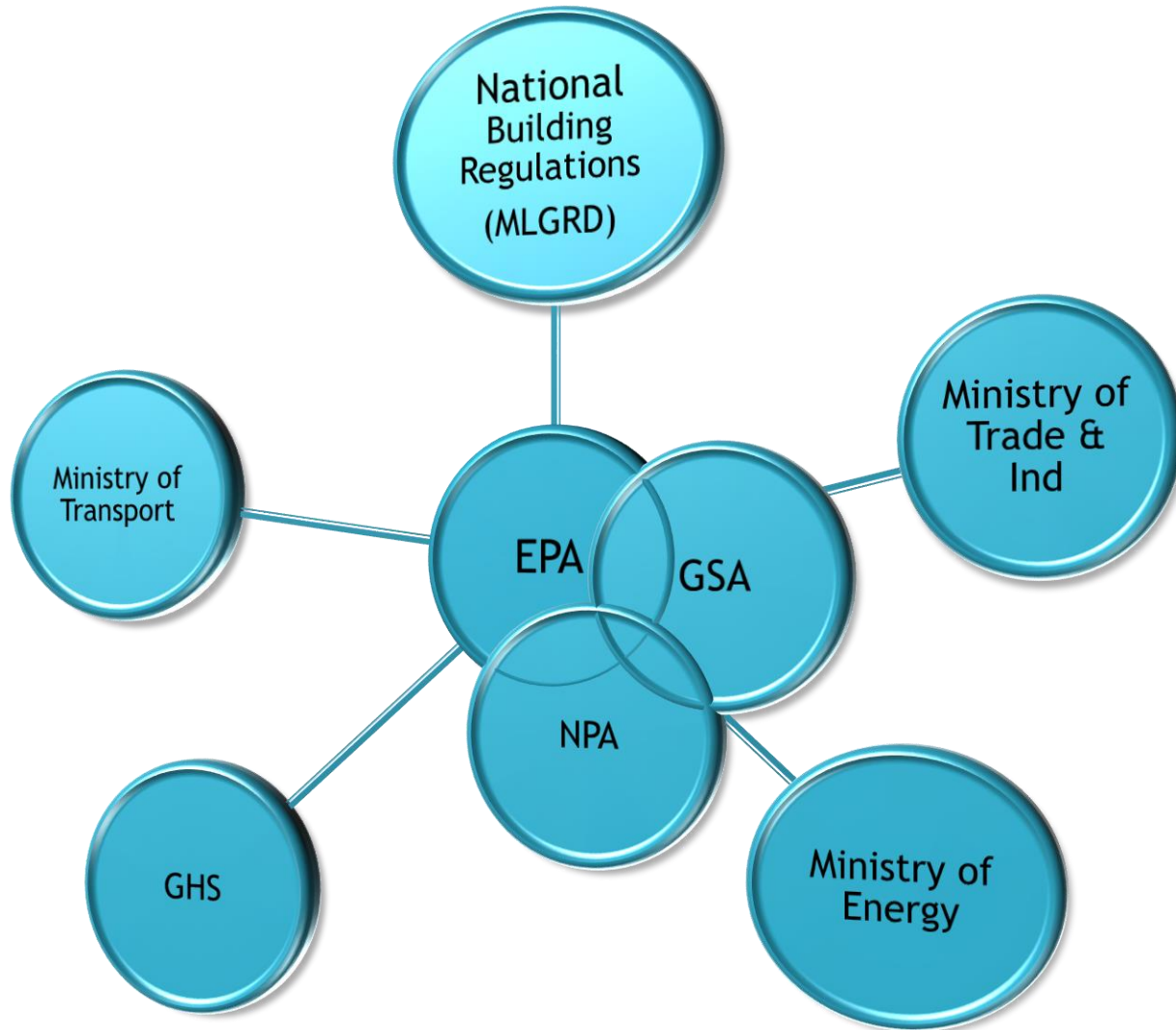


Presentation Outline

- ❖ Cross-sectoral Institutional mandates (EPA, NPA/MoE, MOH/ National Building Regulations, MoT/veh import policy, Ministry of Trade and Industries for non-mobile sources, among others)
- ❖ Major sources of Air Pollution in Ghana
- ❖ Transport and Vehicular Fleet
- ❖ Environmental implications of poor fuel consumption
- ❖ Milestone of Ambient Air Quality & Vehicular Emissions Monitoring (AQM) in Ghana.
- ❖ Health implications of exposure to emissions from consumption of poor fuel
- ❖ Current context
- ❖ The path Ways



Institutional Mandates





air pollution
problems in
Ghana)



Road Transport and Vehicular Fleet

- ❖ 50,000km of road network. Paved road= 9,486km and unpaved roads (feeder roads) 40,555.50km.
- ▶ Road transport accounts for about 94% of freight and 97% of traffic movement. Sector that consumes a lot of fuel.
- ❖ Increased road traffic over past 10 years

- ❖ 84.96% of vehicle fleet in Ghana are privately owned and for commercial activities

Milestone of Air Quality & Vehicular Emissions Programme in Ghana

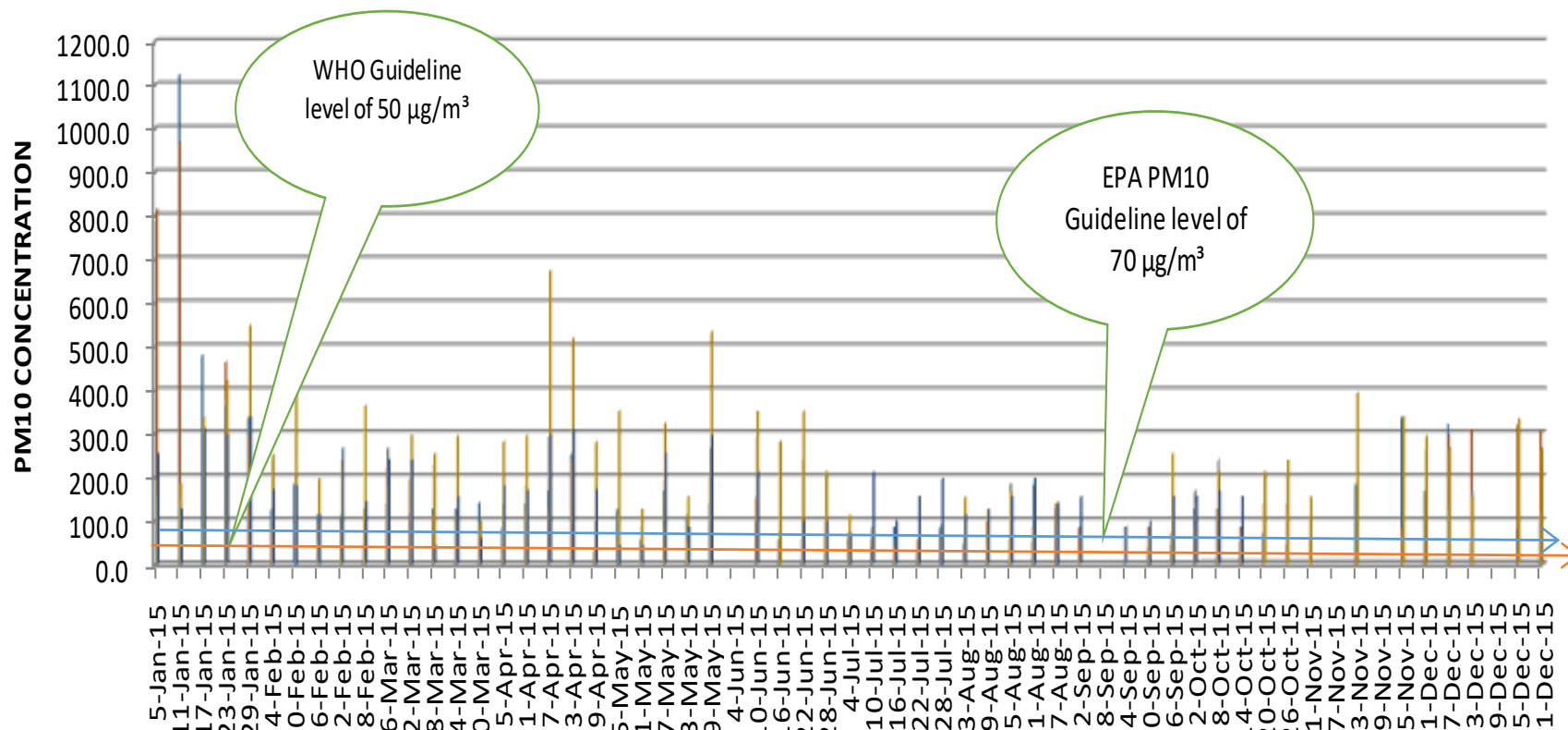
- ❖ Air Quality Programme in 1996 by EPA; programme implementation in 1997 at Residential, commercial and Industrial areas.
- ❖ Pioneering vehicular emission monitoring in Ghana (1997–1998). Outcome: a decision for DVLA to integrate vehicle emission testing into the licensing scheme.
- ❖ A paper issued on the reduction of the age of vehicle imports into Ghana.
- ❖ Studies and Lead phase out programme in Ghana.
- ❖ EPA roadside air quality monitoring (2005–Date).
- ❖ Vehicular emissions inventory in Ghana (2006)
- ❖ Urban Transport Programme
- ❖ Roadmap to vehicular emissions and fuel economy standards in Ghana (2014–2020).
- ❖ Draft AQM and Vehicular Emission standards developed

PROPOSED EPA VEHICLE EMISSION STANDARDS

FUEL	PARAMETER	RECOMMENDED LIMITS	PERIOD	AVERAGE COMPLIANCE (%)	AVERAGE NON-COMPLIANCE (%)
PETROL	CO (%)	3.5	PRE 1995	3,391 (89.1%)	10.9
		2.5	POST 1995	46,380 (91%)	9
	HC (PPM)	800	PRE 1995	3,696 (94.95%)	5.05
		300	POST 1995	49,547 (84.4%)	15.6
DIESEL	OPACITY (%)	55	PRE1995	1,954 (43.91%)	56.09
		40	POST 1995	1,637 (18.51%)	81.49

Road side Air Quality

24-HOUR PM10 CONCENTRATIONS RECORDED AT ROADSIDE IN 2015



预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_10703

