Progress Towards Cleaner Fuels and Vehicles in Africa

Jane Akumu
Progress towards Unleaded Petrol

Unleaded Petrol Phase-Out: Global Status

- Unleaded
- Dual
- Leaded
- Unknown

Status as of End 2002

2002

2018
Progress of leaded petrol phase out in sub-Saharan Africa

June 2001
(A sub-regional agreement reached to phase out leaded gasoline by January 1, 2006)

September 2002
(PCFV was launched)

September 2003

September 2004

September 2005

January 2006

Legend:
- Leaded
- Leaded and unleaded
- Unleaded
The Benefits

Lead Levels in and around Nairobi (UNEP/JKUAT study)

Lead concentration at various sites

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<th>Sampling Date</th>
<th>Lead conc. (ug/m³)</th>
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Ghana EPA guideline (2.5 ug/m³)

Drop in blood lead level in Ghana after phasing out leaded gasoline in 2004

Significantly lower concentrations after lead phase out
Progress towards Low Sulphur Diesel

2005

2018
Progress in Lowering Sulphur in Diesel in Africa

Maps showing the progress in lowering sulphur in diesel in Africa from 2002 to 2018.
Main Sources of PM in Nairobi

- Traffic: 39%
- Mineral dust: 35%
- Mixed factor: 13%
- Industrial: 7%
- Combustion: 6%

Source: S. M. Gaita et al.: Source apportionment and seasonal variation of PM2.5 in Nairobi
Recommendations

• Inclusive **partnership** – government, private sector, civil society
• Clear **goals** and targets to cleaner mobility – “**systems approach**”
• **Standards/regulations** are important, fuels, vehicles emission, inspection etc
• Clear **message** – benefits esp health
• Documentary **evidence** in a few pilots
• Early **implementers** serve as good case studies that it can work
• **Outreach** - all stakeholders are affected and concerned
Thank you

Jane Akumu
Economy Division
Air Quality and Mobility Unit
akumu@un.org

www.unep.org/transport