## **Uganda Air Quality Policies**

This document is based on research that UNEP conducted in 2015, in response to Resolution 7 of the UNEA 1. It describes country-level policies that impact air quality. Triple question marks (???) indicate that information for the section couldn't be found.

Please review the information, and provide feedback. A Word version of the template can be provided upon request. Corrections and comments can be emailed to <a href="https://www.version.org">Vered.Ehsani@unep.org</a> and <a href="mailto:George.Mwaniki@unep.org">George.Mwaniki@unep.org</a>.

Uganda Air Quality Policy Matrix			
Goals	Status	Current Policies & Programmes	
GENERAL	Overall situation with respect to air quality in the	National Ambient air quality standards: ???	
OVERVIEW	country, including key air quality challenges:	National Air Quality Policy: ???	
	• Most emissions are associated with combustion facilities within the industries, e.g. boilers and standby	Air Quality legislation / programmes: ???	
	power generators.	• Air quality standards and regulations proposed in 2005 under the National	
	<ul> <li>Currently no data is available on the impacts of these emissions on human health or the environment.</li> </ul>	Environmental Acts Cap 153. However, this standards and regulation have not yet been promulgated	
	• Particulate matter is considered the most important air pollutant in the country	Other: ???	
	• O3 is also becoming a pollutant of concern in the country		
	Air quality monitoring system: ???		
REDUCE EMISSIONS FROM INDUSTRIES	Industries that have the potential to impact air	Emission regulations for industries: ???	
	quality:	Small installation's emissions regulated: (Yes/No) ???	
	<ul> <li>Sugar, brewing, tobacco, cotton textiles; cement and steel production are some of the major industries in</li> </ul>	Renewable energy investment promoted:	
	Uganda <sup>1</sup>	• The renewable energy policy objectives include increasing access to modern,	
	GDP of country: USD 22.6 B in 2013	affordable and reliable energy services as a contribution to poverty eradication.	
	Industries' share of GDP: 26.9%	• This comprises general public access to electricity and enhancing the modernization of biomass conversion technologies.	
	Electricity sources: • 31.5% of the installed electricity generating capacity	<ul> <li>The overall policy goal is: "To increase the use of modern renewable energy, from the current 4% to 61% of the total energy consumption by the year 2017".</li> </ul>	

<sup>&</sup>lt;sup>1</sup> 'Countries of the World - 32 Years of CIA World Fact Books', 2015 <a href="http://www.theodora.com/wfb/#R">http://www.theodora.com/wfb/#R>.

	<ul> <li>(539,000 KW in 2010) is generated from fossil fuel; and 65.3% is generated from hydropower and the rest 3.2% is generated from various renewable sources.</li> <li>Due to the lack of grid development, a number of companies generate their own electricity.</li> <li>Growth in industrial emissions is projected to increase in the coming years</li> </ul>	<ul> <li>The Renewable Energy Policy establishes a Standardized Power Purchase Agreement and Feed-in Tariffs for renewable energy generation projects.</li> <li>It also introduces favourable financial and fiscal regimes for renewable energy technologies, including:         <ul> <li>Preferential tax treatment or tax exemption,</li> <li>Accelerated depreciation,</li> <li>Provision of risk mitigation mechanisms and credit enhancement instruments,</li> <li>Credit mechanisms for renewable energy consumers.</li> </ul> </li> <li>Energy efficiency incentives: (ex: Subsidies, labelling, rebates etc) ???     </li> <li>Incentives for clean production and installation of pollution prevention technologies: ???     </li> <li>Actions to ensure compliance with regulations: (monitoring, enforcement, fines etc) ???</li> </ul>
		Other actions at national, sub-national and / or local level to reduce industry: (can include incentives to move industries to less populated areas here)???
REDUCE EMISSIONS FROM TRANSPORT	<ul> <li>Key transport-related air quality challenges: (ex: vehicle growth, old fleet, dirty fuel, poor public transport etc)</li> <li>Transport accounts for more than 75% of the air pollution problem in Uganda urban areas</li> <li>Two stroke motorbikes are one of the major sources of air pollutants in urban centres.</li> <li>One of the fastest growing sectors in Uganda with an average growth rate of 18.2% between 2010 and 2011.</li> <li>The sector is estimated to emit up to 40% of all PM in urban areas</li> <li>The sector is also an important indirect source of O3</li> </ul>	<ul> <li>Vehicle emission limit: (Euro rating)???</li> <li>Vehicle emission standards (not implemented yet)</li> <li>Fuel Sulphur content: (in ppm); Fuel sulphur content capped at 50ppm</li> <li>Fuel Lead content; Phasing out of leaded fuel</li> <li>Restriction on used car importation:</li> <li>Pre-shipment inspection of vehicles before import, although this tests for roadworthiness of the vehicle.</li> <li>Actions to expand, improve and promote public transport and mass transit:</li> <li>Actions to promote non-motorized transport: (ex: include sidewalks and bike lanes in new road projects, car-free areas etc) ???</li> <li>Other transport-related actions: ???</li> </ul>
REDUCE EMISSIONS FROM OPEN BURNING	Outdoor, open burning: (ex: is it commonly done? burning what kinds of wastes? etc)  • Uncontrolled waste burning is one of the practices that	Legal framework: (ex: is burning banned?) Regulated by the National Environment (waste management) Regulation Actions to prevent open burning of municipal waste and / or agricultural waste:

OF WASTE	contributes to deteriorating air quality in urban centres	???
(OUTDOOR)	• Agricultural waste burning also impacts air quality in the rural areas.	
	• Due to the waste composition (plastics, waste tires, and other organic/inorganic materials) unregulated waste burning can be a source of health impairing emissions such as dioxins and furans	
REDUCE EMISSIONS FROM BIOMASS BURNING	Dominant fuels used for cooking and space heating:	Indoor air pollution regulated: (Yes / No) ???
	<ul> <li>Wood is the dominant fuels used by the poor for cooking accounting for 90% of the energy mix in Uganda<sup>2</sup></li> </ul>	Promotion of non-grid / grid electrification: ???
		Promotion of cleaner cooking fuels and clean cook stoves:
(INDOORS)	• Impact:	• The government is promoting the use of energy saving bulbs by distributing approximately 800,000 of them to low-income households.
(I (B o o i o)	• Solid fuel combustion causes an estimated 18,000 premature deaths every year <sup>3</sup>	
	Others	Other actions to reduce indoor biomass burning, or to reduce its emissions: ???
	• Air pollution from indoor sources is the single largest contributor to the negative health effects of air pollution in Uganda.	8/
	• Adoption rate for clean fuels is very low despite several policies and initiative to stimulate this	
	• In 2009, only about 9% of the population had access to the electricity grid <sup>4</sup> .	
	• In rural areas, where more than 85% of the population lives, roughly 1% of the households are connected to the grid, while the remainder generates electricity from household diesel generators, batteries and solar photovoltaic systems (PV).	

<sup>&</sup>lt;sup>2</sup> Lisa Yu-Ting Lee, 'Household Energy Mix in Uganda', *Energy Economics*, 39 (2013), 252–61 <a href="http://dx.doi.org/10.1016/j.eneco.2013.05.010">http://dx.doi.org/10.1016/j.eneco.2013.05.010</a>.

<sup>3</sup> WHO, 'WHO | Country Profiles of Environmental Burden of Disease', *WHO*, 2008

<sup>&</sup>lt;a href="http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#T>">http://www.who.int/quantifying\_ehimpacts/national/countryprofile/en/#Tountryprofile

<sup>4 &#</sup>x27;Reegle - Clean Energy Information Gateway', Reegle - Clean Energy Information Gateway <a href="http://www.reegle.info">http://www.reegle.info</a> [accessed 22 September 2015].