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 Vered.Ehsani@unep.org and George.Mwaniki@unep.org.

Brazil				
GOALS	CURRENT STATUS	CURRENT / PLANNED POLICIES & PROGRAMMES		
GENERAL OVERVIEW	in the country, including key air quality challenges: Rapid urbanisation and industrialisation has impacted on air quality in large urban centres. Sao Paulo has twice as much particulates than WHO standard	• National Ambient air quality standards: PM10 meets WHO Interim Targets; O3, SO2 and NO2 don't meet WHO targets; there is no standard for PM2.5		
		 National Air Quality Policy: Air Quality legislation / programmes: National Programme for Control of Air Quality (1989) established strategies of setting national standards for air quality and emissions at source; in 1990, set maximum limits for emission from external combustion processes Other: Brazil has a generally advanced and comprehensive legislation on environmental protection and sustainability 		
REDUCE EMISSIONS FROM INDUSTRIES	 Industries that have the potential to impact air quality: chemicals, cement, iron ore, tin, steel, textiles, petrochemicals Brazil has a high concentration of pollution-intensive export industries 	 Emission regulations for industries: national emission limits for point and non-point sources; for combustion plants, based on grams/kilocalaorie; in 2012, emission standards were applied to older facilities as well, including boilers, electrical turbines, oil refineries, steel mills, aluminium smelters, lead foundries, cement kilns and fertiliser factories Small installation's emissions regulated: Yes 		
	• Electricity sources: hydro (80% - varies depending on amount of rain), biofuels (6%), natural gas (5%), nuclear (3%), oil (3%), coal	 Renewable energy investment promoted: Renewable energy target 86% of electricity generation by 2023. Funding for renewables available. Fuel tax and import duties exemptions, transmission discount. Incentives for solar water heating from sub-national solar mandates (buildings must meet a % of heating needs through solar energy) Energy efficiency incentives: Energy Efficiency Program demands electricity providers to spend 0.5% of net income in energy efficiency projects 		
		 Incentives for clean production and installation of pollution prevention technologies: ??? Actions to ensure compliance with regulations: criminal penalties for environmental crimes; administrative sanctions for violations, including warning, fines, seizure of products and 		

		premises, suspension of activities, closing of premises, restriction of rights
		• Other actions at national, sub-national and / or local level to reduce industry emissions: ???
REDUCE EMISSIONS FROM TRANSPORT	 Key transport-related air quality challenges: (ex: vehicle growth, old fleet, dirty fuel, poor public transport etc) Fiscal incentives still exist to encourage car production (in 1956, car industry seen as important for economic development), and are contradictory to the new urban mobility policy Protests in June 2013 led the federal government to increase transport investments through the Mobility Pact, to move away from increasing car lanes as the response to transport needs Sao Paulo was the ITDP 2015 Sustainable Transport Award Finalist 	 Vehicle emission limit: Euro 4 / 5 Fuel Sulphur content: 500 ppm and 10ppm available nationwide Restriction on used car importation: Banned Actions to expand, improve and promote public transport and mass transit: In Rio, a lot of activity, including a bus rapid transit system, with new lines being added for the 2016 Olympics, and expansion of the metro, 320km of exclusive bus lanes. In Curitiba, high-density transit corridors were integrated into the city's master plan to promote residential and industrial development in those areas; as a result of these corridors and other smart transit planning decisions, Curitiba has one of the most heavily used yet low-cost transit systems in the world Actions to promote non-motorized transport: new urban mobility policy aims to prioritise non-motorised and public transport over private cars by redesigning roads to give more space to non-motorised vehicles and promoting more efficient, sustainable modes; 108km protected bike paths citywide (but paths are not connected in a wider network); city plans to have 400km bike lanes by end 2015 Other transport-related actions: Rio de Janeiro has mandatory annual vehicle emission inspections, with nonrenewal of registration if don't pass; government programme to incentivise
		more efficient vehicles; voluntary fuel efficiency labelling programme (so far, only 11 out of 107 models are labelled)
REDUCE EMISSIONS FROM OPEN BURNING OF AGRICULTURAL / MUNICIPAL WASTE (OUTDOOR)	 Outdoor, open burning: open burning of pre-harvest sugarcane fields is common and has significant impact on air pollution, thus lowering possible benefits of using biofuels Sugarcane burning also has a significant impact on indoor air quality for communities near the fields 	 Legal framework: (ex: is burning banned?) ???? Actions to prevent open burning of municipal waste and / or agricultural waste: Alternatives to open burning of agricultural waste are being explored - in MERCOSUR (of which Brazil is a full member), ~80% of crops are planted using no-tillage methods (without burning); Cutting down on deforestation in Brazil, where land is often cleared by burning, has caused particulate matter concentrations to decline by about 30% during the dry season There is no all-encompassing national law regarding waste management, so this is left to states and cities
REDUCE EMISSIONS	• Dominant fuels used for cooking and space heating: 13% use solid fuel	• Indoor air pollution regulated: (Yes / No) ???

FROM O	PEN	• Impact: 10,700 deaths/year from indoor air	
BURNING		pollution (13,600 from outdoor air pollution)	• Promotion of non-grid / grid electrification: 98% in urban areas, but lower in rural areas. Luz
BIOMAS			Para Todos was a programme to expand electrification within rural areas, using off-grid sources
(INDOOR)	2)		when necessary
			• Promotion of cleaner cooking fuels and clean cook stoves: ???
			• Other actions to reduce indoor biomass burning, or to reduce its emissions: ???

Secondary Sources used in the research: http://www.unep.org/Transport/new/PCFV/pdf/Maps Matrices/LAC/matrix/LAC_FuelsVeh_June2015.pdf, http://www.unep.org/Transport/new/PCFV/pdf/Maps Matrices/LAC/matrix/LAC_FuelsVeh_June2015.pdf, http://www.nttp://www.nttp://www.nttp://www.nttp://www.nttp://www.nttp://www.nttp://www.nttp://www.nttp://www.nttp://www.nttp://www.nttp://www.nttp://www.nttp://www.reegle.info/countries/brazil-energy-profile/BR, http://www.nature.com/nclimate/journal/v2/n1/full/nclimate1325.html, http://www.iea-coal.org.uk/documents/82536/7826/Brazil, <a href="http://www.cathalac.org/GEOSS_Americas/ppt_geoss_symposium/Wednesday_10_01_08/Air_Quality/03_Martins_AirQualitySPMRGEOSSfinal_CETESB.pdf, http://www.sciencedirect.com/science/article/pii/S0269749112001753, http://www.bdlaw.com/news-1276.html, https://www.itdp.org/2015-sustainable-transport-award-finalist-sao-paulo-brazil/

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