Bulgaria 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.

Bulgaria Air Quality Policy Matrix			
Goals	Status	Current Policies & Programmes	
GENERAL	Overall situation with respect to air quality in	National Ambient air quality standards:	
OVERVIEW	the country, including key air quality challenges:	• Complete harmonization of European and Bulgarian air quality legislation was achieved by late 2007.	
	Bulgaria has the highest rate of premature	National Air Quality Policy:	
	 deaths due to air pollution in Europe. In 2010, 11,787 people in Bulgaria died prematurely from PM2.5 and ozone exposure. Furthermore, there were 2.1 million lost working days in 2010 (Ref: <a <="" href="http://www.iiasa.ac.at/web/home/research/res</td><td> The EU air quality policy has a long term goal of achieving levels of air quality that do not result in unacceptable impacts on, and risks to, human health and the environment." li=""> European Union air quality policy aims to; Develop and implement appropriate instruments to improve air quality. Control of emissions from mobile sources, through fuel quality improvement, Promoting and integrating environmental protection requirements into the transport and energy sector are part of these aims. 		
	 Measurements show that citizens all over are exposed to poor air quality, with concentrations for PM2.5 and PM10 being above the EU and WHO recommended standards. WHO estimates that indoor air pollution causes 3500 premature deaths annually¹ Air quality monitoring system: Air quality is measured by a sophisticated 	 Air Quality legislation / programmes: The Bulgarian legislation on air pollution is in fully compliance with the EU requirements The control of air pollutants and the management of air quality is for the most part the same as the EU's practice. Other: Bulgaria enacted the Renewable and Alternative Energy Sources and Biofuels Act (2007), which was aimed at diversifying energy supply, environmental protection, set terms for 	

¹ WHO, 'WHO | Country Profiles of Environmental Burden of Disease', *WHO*, 2008 ">http://www.who.int/quantifying_ehimpacts/national/countryprofile/en/#T>.

national air quality monitoring network. sustainable local and regional development, and to increase the capacity of SMEs and renewable energy sources producers, as well as other market actors. • In this law energy/electricity suppliers are required to purchase all renewable electricity that has a certificate of origin. The public utility company and the end suppliers, respectively, shall purchase the entire quantity of energy generated from renewable and alternative energy sources, except for the power generated by hydroelectric power plants with installed capacity of over 10 MW, at preferential prices. • In addition, installation of a RES for the generation of electricity with a capacity of up to 5 MW, or for thermal energy production, requires no license. • Feed-in tariffs for various renewable energy sources are also in place, ranging from roughly 80 €/MWh for large wind power, to 400 €/MWh for PV installations under 5 kW. • Long-term purchase contracts are set to replace this feed-in tariff structure for electricity producers. **Emission regulations for industries: REDUCE** Industries that have the potential to impact air **EMISSIONS** quality: Industrial emissions within the European Union are regulated under the Industrial Emissions FROM Directive (IED), which was issued on 21 December 2007 • Industrial emissions, especially thermal power **INDUSTRIE** The directive's aim was to achieve significant benefits to the environment and human plants are the most important source of air health by reducing harmful industrial emissions across the EU, in particular through better pollutants in Bulgaria application of Best Available Techniques. • Air pollution from industrial installations The IED entered into force on 6 January 2011 and has to be transposed into national emanates from the following: power generation, legislation by Member States by 7 January 2013. food processing, beverages, tobacco; machinery European legislation establishes air quality objectives (limit and target values) for the and equipment, base metals, chemical products, different pollutants. Limit values are concentrations that must not be exceeded in a given coke, refined petroleum, nuclear fuel among period of time. others Small installation's emissions regulated: (Yes/No) yes **GDP of country**: USD 53.7B in 2013 **Renewable energy investment promoted: Industries' share of GDP: 30% Energy efficiency incentives:** (ex: Subsidies, labelling, rebates etc) ??? **Electricity sources:** Incentives for clean production and installation of pollution prevention technologies: • 45.7% of the installed electricity generating ??? capacity (10.01 million KW in 2010) is generated from fossil fuel, 19% from nuclear, 21.8% from Actions to ensure compliance with regulations: (monitoring, enforcement, fines etc.) ???? hydroelectric plants and the rest 4.8% is • Other actions at national, sub-national and / or local level to reduce industrial generated from other renewable sources **emissions**: (can include incentives to move industries to less populated areas here) ??? Others

by the low fuel cost which stood at USD 1.19 per litre in 2015 ² . • Private car ownership is high, with 393 cars per 1000 individuals in 2010 ³ • Between 2008 and 2012, private car ownership grew by 19%, which was also the highest growth rate in the number of passenger cars in the European Union within the same period • Maximum Fuel Lear Restriction Actions anew road.	(Euro 5/6). lations introduce different emission limits for <i>compression ignition</i> (diesel) and <i>gnition</i> (gasoline, NG, LPG, ethanol,) vehicles. Diesels have more stringent CO is but are allowed higher NOx. Positive ignition vehicles were exempted from PM as through the Euro 4 stage. Euro 5/6 regulations introduce PM mass emission is, equal to those for diesels, for positive ignition vehicles with direct injection where content: (<i>in ppm</i>) 20/2005 emission standards were accompanied by an introduction of more stringent lations that require "Sulphur-free" diesel and gasoline fuels (≤ 10 ppm S) must be try from 2009. 2009 m allowable sulphur level in petrol and diesel fuels is 10ppm content: All vehicles use lead free gasoline in on used car importation: ??? 20 expand, improve and promote public transport and mass transit: ??? 21 promote non-motorized transport: (<i>ex: include sidewalks and bike lanes in projects, car-free areas etc</i>) ???
REDUCE EMISSIONS Outdoor, open burning: (ex: is it commonly done? Legal fra burning what kinds of wastes? etc) Legal fra	nework: (ex: is burning banned?) ???

² 'Gasoline Prices around the World, 28-Sep-2015 | GlobalPetrolPrices.com' http://www.globalpetrolprices.com/gasoline_prices [accessed 5 October 2015].

³ World Bank, Worldwide Total Motor Vehicles (per 1,000 People), 2011 http://chartsbin.com/view/1114 [accessed 30 June 2015].

FROM OPEN BURNING: OUTDOOR		Actions to prevent open burning of municipal waste and / or agricultural waste: ???
REDUCE EMISSIONS FROM OPEN BURNING: INDOOR	 Dominant fuels used for cooking and space heating: Household heating is a major, and difficult to regulate, source of emissions of PM10. Main issues are obsolescence and low efficiency of combustion in heating units and to some extent behavioural traits of households. Impact: WHO estimates that indoor air pollution causes <100 premature deaths annually⁴ 	Indoor air pollution regulated: (Yes / No)??? Promotion of non-grid / grid electrification: ??? Promotion of cleaner cooking fuels and clean cook stoves: ??? Other actions to reduce indoor biomass burning, or to reduce its emissions: ???

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