Finland 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.

Finland Air Quality Policy Matrix				
Goals	Status	Current Policies & Programmes		
GENERAL	Overall situation with respect to air	National Ambient air quality standards: yes		
OVERVIEW	quality challenges:On average, air quality in Finland is good,	• The current standards are contained in the Clean Air for Europe (CAFE) Directive (EP & CEU, 2008) and the Fourth Daughter Directive (EP & CEU, 2004). These Directives also include rules on how Member States should monitor, assess and manage ambient air quality.		
	except for exceptional periods during	National Air Quality Policy		
	summer and wintertime when pollution levels can rise.	• 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."		
	• In the recent decades air quality has	• European Union air quality policy aims to;		
	 improved significantly in Finland Air pollution in Finland is mainly driven by energy production, industry and traffic, 	- Develop and implement appropriate instruments to improve air quality.		
		- Control of emissions from mobile sources, through fuel quality improvement,		
	especially in urban areas.	- Promoting and integrating environmental protection requirements into the transport and		
	• Transboundary transport of air pollutants also impacts Finland's air quality	energy sector are part of these aims.		
	• Real-time data produced by municipalities,	Air Quality legislation / programmes:		
	industry and the Finnish Meteorological Institute is available via the air quality portal	• Finland's regulations on air quality are all based on provisions adopted by the EU		
	• WHO estimates that outdoor air pollution causes 100 premature deaths annually	Other:		
		• A review of the EU air quality policy was conducted in 2011-2013		
	Air quality monitoring system:	• This review lead to the adoption of a Clean Air Policy Package in December 2013, this package		

¹ WHO, 'WHO | Country Profiles of Environmental Burden of Disease', *WHO*, 2008 ">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/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprofile/en/#Tountryprof

	• Air quality is measured by a sophisticated	consists of :
	national air quality monitoring network.	 A new Clean Air Programme for Europe with new air quality objectives for the period up to 2030,
		 A revised National Emission Ceilings Directive with stricter national emission ceilings for the six main pollutants, and
		 A proposal for a new Directive to reduce pollution from medium-sized combustion installations
REDUCE	Industries that have the potential to	Emission regulations for industries:
EMISSIONS	impact air quality:	• Industrial emissions within the European Union are regulated under the Industrial Emissions
FROM INDUSTRIES	 Major industries in the country includes; metals and metal products, electronics, machinery and scientific instruments, shipbuilding, pulp and paper, foodstuffs and chemicals among others GDP of country: USD 259.6 Billion in 2013 Industries' share of GDP: 25.1% Electricity sources: 52.3% of the installed electricity generating capacity (16.68 million KW in 2010) is generated from fossil fuel, 18.5% from hydropower, 16.2% from nuclear and the rest 12.7% from renewable sources 	 Directive (IED), which was issued on 21 December 2007 The directive's aim was to achieve significant benefits to the environment and human health by reducing harmful industrial emissions across the EU, in particular through better application of Best Available Techniques. The IED entered into force on 6 January 2011 and has to be transposed into national legislation by Member States by 7 January 2013. European legislation establishes air quality objectives (limit and target values) for the different pollutants. Limit values are concentrations that must not be exceeded in a given period of time. Small installation's emissions regulated: (Yes/No) yes Renewable energy investment promoted:
		Energy efficiency incentives: (ex: Subsidies, labelling, rebates etc) ???
		Incentives for clean production and installation of pollution prevention technologies: ???
		Actions to ensure compliance with regulations: (monitoring, enforcement, fines etc) ???
		• Other actions at national, sub-national and / or local level to reduce industrial emissions: (can include incentives to move industries to less populated areas here) ???
REDUCE	Key transport-related air quality challenges: (ex: vehicle growth, old fleet, dirty fuel, poor public transport etc) • Transport is among the most important source of air pollution in the Finland • Transport is the main source in 97% of the AQMAs declared for NO2; this is predominantly road transport but may	Vehicle emission limit: (Euro rating)
EMISSIONS FROM TRANSPORT		 Emissions standards for vehicles correspond to Euro 6 for LDV vi HDV standards. European Union emission regulations for new light duty vehicles (passenger cars and light commercial vehicles) are specified in Regulation 715/2007 (Euro 5/6) [2899].
		• Emission standards for light-duty vehicles are applicable to all vehicles not exceeding 2610 kg (Euro 5/6).
		• EU regulations introduce different emission limits for <i>compression ignition</i> (diesel) and <i>positive ignition</i> (gasoline, NG, LPG, ethanol,) vehicles. Diesels have more stringent CO

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	include some other types, e.g. trains or shipping.Transport in the Finland is well developed	standards but are allowed higher NOx. Positive ignition vehicles were exempted from PM standards through the Euro 4 stage. Euro 5/6 regulations introduce PM mass emission standards, equal to those for diesels, for positive ignition vehicles with direct injection engines.
	and several options spanning from railways, tramps, metros and bus are available for commuters. • Use of private cars is discouraged as	 Fuel Sulphur content: (in ppm) The 2000/2005 emission standards were accompanied by an introduction of more stringent fuel regulations that require "Sulphur-free" diesel and gasoline fuels (≤ 10 ppm S) must be mandatory from 2009.
	demonstrated by the high fuel cost which stood at USD 1.59 per litter in 2015 ² . • Private car ownership is high with 519 cars	• Maximum allowable sulphur level in petrol and diesel fuels is 10ppm Fuel Lead content: All vehicles use lead free gasoline Restriction on used car importation: ???
	per 1000 individuals in 2010 ³	Actions to expand, improve and promote public transport and mass transit: ???
		• Actions to promote non-motorized transport: (ex: include sidewalks and bike lanes in new road projects, car-free areas etc)???
REDUCE	Outdoor, open burning : (ex: is it commonly	Legal framework: (ex: is burning banned?) ???
EMISSIONS FROM OPEN BURNING: OUTDOOR	done? burning what kinds of wastes? etc)	Actions to prevent open burning of municipal waste and / or agricultural waste: ???
REDUCE	Dominant fuels used for cooking and	Indoor air pollution regulated: (Yes / No) ???
EMISSIONS FROM OPEN BURNING: INDOOR	space heating:	Promotion of non-grid / grid electrification: ???
	• Household heating is a major, and difficult to regulate, source of emissions of PM10.	Promotion of cleaner cooking fuels and clean cook stoves: ???
	• Main issues are obsolescence and low efficiency of combustion in heating units and to some extent behavioural traits of households.	Other actions to reduce indoor biomass burning, or to reduce its emissions: ???
	Impact:	
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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].