United States of America Air Quality Catalogue

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

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United States of America Air Quality Catalogue				
Goals	Status	Current Policies & Programmes		
GENERAL	Overall situation with respect to air quality in	National Ambient air quality standards: Exists		
OVERVIEW	the country, including key air quality challenges:	 The U.S. Clean Air Act (CAA) provides the principal framework for national, state, tribal and local efforts to protect air quality. 		
	 States in the last few decade due to regulations, technology improvements and economic changes. Since the passage of the Clean Air Act in 1970, 	 To protect public health and welfare nationwide, the law requires the U.S. Environmental Protection Agency (EPA) to establish national ambient air quality standards (NAAQS) based on the latest science, and requires states to adopt enforceable plans to achieve the standards. The Clean Air Act identifies two types of national ambient air quality standards. Primary standards for the public health protection and Secondary standards for public welfare 		
		National Air Quality Policy:		
		• The U.S. Clean Air Act (CAA) provides the principal framework for national, state, tribal and local efforts to protect air quality.		
	However, approximately 57 million people still	Air Quality legislation / programmes:		
	live in areas in the United States with unhealthy levels of air pollution. (source: http://www3.epa.gov/airtrends/aqtrends.html #comparison)	 The Clean Air Act (CAA) is the federal law passed in 1970, and last amended in 1990, which forms the basis for the national air pollution control effort. Basic elements of the act include national ambient air quality standards for major air 		
	 Topography and weather conditions are some of the external factors that aggravate air pollution in the United States especially in urban centres WILO estimates that outdoor air pollution 	pollutants, hazardous air pollutants standards, state attainment plans, motor vehicle emissions standards, stationary source emissions standards and permits, acid rain control measures, stratospheric ozone protection, and enforcement provisions. Other:		
	 WHO estimates that outdoor air pollution 			

	however, a study by the OECD reviewed this	 The CAA prescribes a complicated set of responsibilities and relationships among federal, states, tribal, and local agencies. The federal government coordinates efforts through the United States Environmental Protection Agency (USEPA) and sets national air quality standards and approaches to
	Air quality monitoring system:	pollution mitigation so that it can provide a basic level of environmental protection to all individuals in the U.S.
	 Air quality is monitored by a sophisticated national air quality monitoring network. 	 State and local governments then develop, implement, and enforce specific strategies and control measures to achieve the national standards and goals.
	• Most of the ambient air monitoring networks supporting air quality management are designed and operated, following federal guidelines, by tribal, state, or local governments	 The CAA empowers EPA to oversee the activities carried out by these agencies. In addition, the federal courts also have a role in AQM – final agency rules promulgated under the CAA are subject to judicial review and any citizen may file a civil action against EPA
REDUCE	Industries that have the potential to impact air	Emission regulations for industries:
EMISSIONS FROM INDUSTRIES	 quality: Air pollution from industrial installations emanates from the following: petroleum, steel, motor vehicles, aerospace, telecommunications, chemicals, electronics, food processing, consumer goods, lumber, mining among others 	 The Clean Air Act requires EPA to regulate emissions of listed toxic air pollutants from a published list of industrial sources referred to as "source categories." As required under the Act, EPA has developed a list of source categories that must meet control technology requirements for these toxic air pollutants. The EPA is required to develop regulations (also known as rules or standards) for all industries that emit one or more of the pollutants in significant quantities. All new industrial plants or major additions to existing plants, regardless of size or location need to adhere to New Source Performance Standards (NSPSs). These are
	GDP of country : USD 16.72 trillion in 2013 ² Industries' share of GDP : 19.5% ³	standards determined by the EPA considering cost, environmental effects, and state of
		the art technology.
	 Electricity sources: 75.3% of the installed electricity generating capacity (1.039 Billion KW in 2010) is 	 After the EPA sets the standards, it is the responsibility of the state to issue permits and enforce them.

¹ WHO, 'WHO | Country Profiles of Environmental Burden of Disease', WHO, 2008

chttp://www.who.int/quantifying_ehimpacts/national/countryprofile/en/#T>.
² 'Countries of the World - 32 Years of CIA World Fact Books', 2015 <</p>
³ 'Countries of the World - 32 Years of CIA World Fact Books'.

	 generated from fossil fuel, 9.7% from nuclear, 7.6% from hydroelectric plants and the rest 5.3% is generated from other renewable sources⁴ Others Each year in the U.S., industrial operations emit about 89 million tons of pollutants into the air. (source: http://www3.epa.gov/airtrends/aqtrends.html 	 New sources in non-attainment areas are required to adhere to the lowest achievable emissions rate (LAER) which is the lowest emissions rate achieved by a similar source or the lowest rate for a similar source in a State Implementation Plan (SIP) anywhere in the country. A new source wishing to enter a Prevention of Significant Deterioration area needs to use the best achievable control technology (BACT) which is based on a maximum amount of achievable reductions once cost and technology are considered. These standards, LAER and BACT, need to be at least as strict as NSPS. Small installation's emissions regulated: (Yes/No) yes
	#comparison)	Renewable energy investment promoted:
		 The federal government, acting primarily through the federal tax code, and most state and local governments throughout the US have adopted legislation to support and incentivise the use of renewable energy. One of the federal government's primary policies in support of renewable energy is the federal electricity production tax credit (PTC) The PTC provides a per-kilowatt-hour tax credit for a ten-year period beginning on the placed in service date for electricity generated by qualified energy resources and sold by the taxpayer to an unrelated person during a taxable year.
		Energy efficiency incentives: (ex: Subsidies, labelling, rebates etc)
		 States have adopted various policies that support greater investment in and adoption of energy efficiency
		Incentives for clean production and installation of pollution prevention technologies:
		 Compliance assistance (program initiated by EPA) involves actions and programs designed to encourage and assist affected industries to follow the relevant environmental laws.
		Actions to ensure compliance with regulations: (monitoring, enforcement, fines etc)

⁴ 'Countries of the World - 32 Years of CIA World Fact Books'.

		 EPA's compliance and enforcement goals are to use tough civil and criminal enforcement for violations that threaten communities and the environment. Compliance and enforcement programs encompass a range of actions and activities, including: compliance monitoring; administrative, civil, and criminal enforcement; compliance assistance; compliance incentives and auditing; planning and results; data systems; and, environmental justice
REDUCE EMISSIONS FROM TRANSPORT	 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 US In the major cities public transport is well developed and several options spanning from railways, tramps, metros and bus are available for commuters. Use of personal cars is the most dominant mode of transport Low fuel cost which stood at USD 0.68 per litre in 2015⁵ does not deter the use of private cars. 	 Vehicle emission limit: (Euro rating) EPA regulates the emissions from mobile sources by setting standards for the specific pollutants being emitted. EPA established progressively more stringent emission standards for carbon monoxide, hydrocarbons, nitrogen oxides, and particulate matter, starting in the mid-1970s for onroad vehicles and in the early 1990s for non-road engines and equipment. These standards specifically restrict emissions of CO, NO_x, PM, HCHO, NMHC. Currently Tier 2 standards are the current set of federal emissions regulations. Tier 2 standards require that vans, pickups and large SUVs be subject to the same emissions regulations as passenger cars irrespective of the fuel used. The new Tier 3 standard will come into force in 2017 Fuel Sulphur content: (in nom)

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