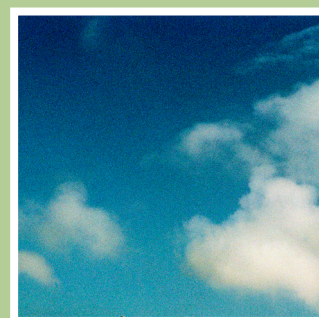


Air pollution fact sheet 2014

Iceland



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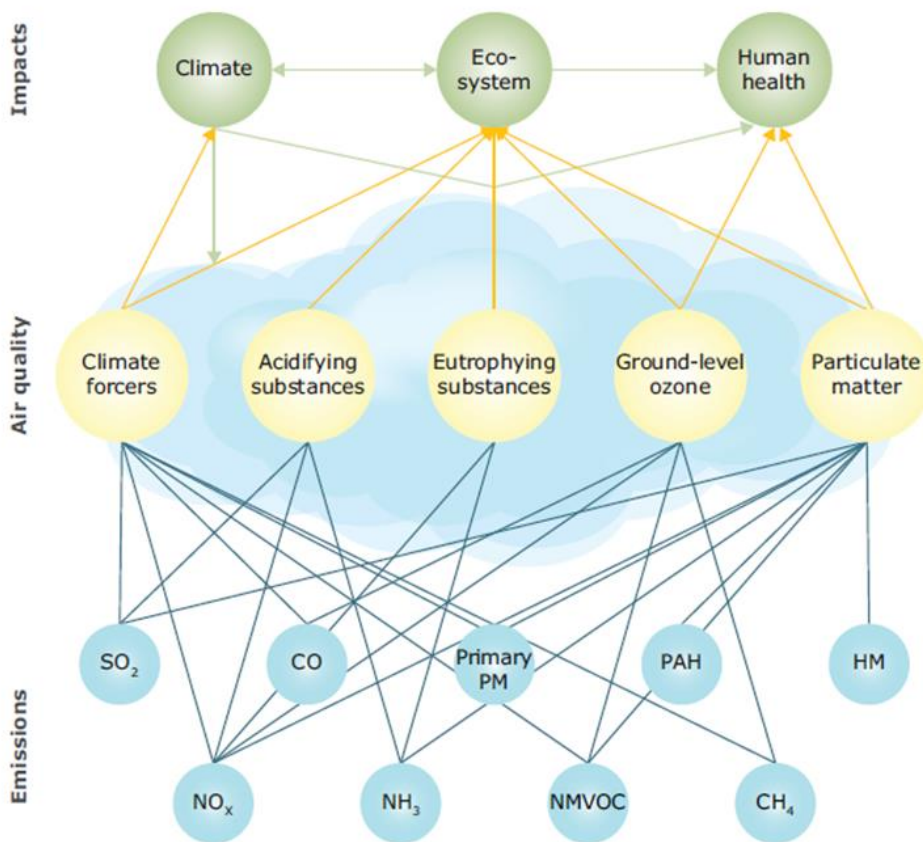
Introduction

Air pollution is a complex problem. Different pollutants interact in the atmosphere, affecting our health, environment and climate.

Air pollutants are emitted from almost all economic and societal activities. Across Europe as a whole, emissions of many air pollutants have decreased in recent decades, resulting in improved air quality across the region. Much progress has been made in tackling air pollutants such as sulphur dioxide (SO₂), carbon monoxide (CO) and benzene (C₆H₆). However, air pollutant concentrations are still too high and harm our health and the ecosystems we depend on. A significant proportion of Europe's population lives in areas – especially cities –

where exceedances of air quality standards occur. Particulate matter (PM) and ozone (O₃) pollution are particularly associated with serious health risks.

Air pollutants released in one European country may contribute to or result in poor air quality elsewhere. Moreover, important contributions from intercontinental transport influence O₃ and PM concentrations in Europe. Addressing air pollution requires local measures to improve air quality, greater international cooperation, and a focus on the links between climate policies and air pollution policies.



Note: From left to right the pollutants shown are as follows: sulphur dioxide (SO₂), nitrogen oxides (NO_x), carbon monoxide (CO), ammonia (NH₃), particulate matter (PM), non-methane volatile organic compounds (NMVOC), polycyclic aromatic hydrocarbons (PAH), methane (CH₄), heavy metals (HM).

This fact sheet presents compiled information based on the latest official air pollution data reported by the European Environment Agency's (EEA) member countries. A comprehensive overview of information about Europe's air quality is also published each year by the EEA in the report '[Air quality in Europe](#)'. A number of other [publications](#)

[addressing air pollution](#) are also published by the EEA each year. Information on the data sources used is provided in the following sections and at the back of this fact sheet a glossary explains the various abbreviations and acronyms used throughout.

Box 1. Facts about air pollutants

Pollutant	Description and sources	Health and environment effects
Sulphur dioxide (SO₂)	SO ₂ is formed by oxidation of sulphur (S), mainly through combustion of fuels containing S. The electricity generation sector is the most important source of SO ₂ . SO ₂ also can contribute to the formation of secondary sulphate particles in the atmosphere.	SO ₂ aggravates asthma and can reduce lung function and inflame the respiratory tract. It can cause headache, general discomfort and anxiety. SO ₂ contributes to acid deposition, the impacts of which can be significant, causing damage to forests and ecosystems in rivers and lakes.
Nitrogen oxides (NO_x)	NO _x is emitted during fuel combustion e.g. from industrial facilities and the road transport sector. NO _x is a group of gases comprising nitrogen monoxide (NO) and nitrogen dioxide (NO ₂). NO makes up the majority of NO _x emissions. NO _x contributes to the formation of ozone and particulate matter.	NO ₂ is associated with adverse effects on health: it can affect the liver, lung, spleen and blood. It can also aggravate lung diseases leading to respiratory symptoms and increased susceptibility to respiratory infection. As with SO ₂ , NO _x contributes to acid deposition but also to eutrophication of soil and water.
Particulate matter (PM)	PM is a mixture of aerosol particles (solid and liquid) covering a wide range of sizes and chemical compositions. PM ₁₀ (PM _{2.5}) refers to particles with a diameter of 10 (2.5) micrometres or less. PM is either directly emitted as primary particles or it forms in the atmosphere from emissions of SO ₂ , NO _x , NH ₃ and NMVOCs. PM is emitted from many anthropogenic sources, including both combustion and non-combustion sources. Important natural sources of PM are sea salt and natural re-suspended dust.	PM can cause or aggravate cardiovascular and lung diseases, heart attacks and arrhythmias. It can also affect the central nervous system and the reproductive system, and can cause cancer. One outcome of exposure to PM can be premature death. PM also acts as a greenhouse gas, mainly cooling the earth's climate, although in some cases it can lead to warming. PM in the atmosphere can also alter rainfall patterns, and affect the surface albedo properties of snow (the extent to which the snow reflects light).
Ozone (O₃)	Ground-level (tropospheric) ozone is not directly emitted into the atmosphere. Instead, it forms in the atmosphere from a chain of chemical reactions following emissions of certain precursor gases: NO _x , carbon monoxide (CO) and NMVOCs and methane (CH ₄).	Elevated levels of ozone can cause respiratory health problems, including decreased lung function, aggravation of asthma, and other lung diseases. It can also lead to premature mortality. Ozone is also a greenhouse gas contributing to warming of the atmosphere.
Ammonia (NH₃)	The vast majority of NH ₃ emissions come from the agricultural sector, in connection with activities such as manure storage, slurry spreading, and the use of synthetic nitrogenous fertilisers. It also contributes to the formation of secondary particles.	Exposure to high levels of ammonia may irritate skin, eyes, throat, and lungs and cause coughing. People with asthma may be more sensitive to breathing ammonia than others. NH ₃ , like NO _x , contributes to eutrophication and acidification.
Non methane volatile organic compounds (NMVOCs)	NMVOCs produce photochemical oxidants by reacting with NO _x in the presence of sunlight. Anthropogenic NMVOCs are emitted from sources including paint application, road transport, dry-cleaning and other solvent uses. Biogenic NMVOCs are emitted by vegetation, with the amounts emitted dependent on species and on temperature.	NMVOCs include a variety of chemicals. Certain NMVOC species, such as benzene (C ₆ H ₆) and 1,3-butadiene, are directly hazardous to human health. NMVOCs are also precursors of ground-level ozone.
Carbon monoxide (CO)	CO is emitted due to incomplete combustion. Important sources of CO include road transport, businesses, households, and industry. CO reacts with other pollutants producing ground-level ozone.	CO can lead to heart disease and damage to the nervous system. It can also cause headache, dizziness and fatigue.
Methane (CH₄)	CH ₄ is produced by both anthropogenic and natural sources. Significant anthropogenic sources include the agriculture sector (from the enteric fermentation of CH ₄ from livestock), the waste sector, and 'fugitive' emissions from coal mining and gas.	Methane is an important greenhouse gas, and is one of the gases controlled under the UNFCCC's Kyoto protocol. At the regional and global scale methane also contributes to the formation of ground level ozone.

Further information and data sources

Data sources

Air quality concentration data are from [AirBase v. 8](#), the EEA's public air quality database, which stores data reported by EEA member countries. Concentration data measured in the year 'x' are submitted by 30 September of the following year (x+1) and become publicly available in AirBase by March of year x+2. These data correspond to measurements taken at air quality monitoring stations. Stations are defined according to the type of area they represent and the dominant emission sources in that area.

The station types in this document include:

- **rural stations** located outside of built-up urban areas (it corresponds to rural background stations in AirBase);
- **urban stations** located in built-up areas where pollution levels are not influenced significantly by any single source or street, but rather by a combination of many sources (it corresponds to urban and suburban background stations in AirBase);
- **traffic stations** located such that the pollution levels they record are determined predominantly by the emissions from nearby traffic (it corresponds to rural, urban and suburban traffic stations in AirBase); and
- **other stations**, mainly industrial stations, located such that the pollution levels they record are influenced predominantly by emissions from nearby single industrial sources or by emissions from industrial areas with many pollution sources (it corresponds to rural, urban and suburban industrial stations in AirBase).

European legislation establishes [air quality objectives \(limit and target values\)](#) for the different pollutants. These are concentrations that must not be exceeded in a given period of time.

The estimations of the population exposure were obtained from the EEA's [Core Set Indicator 004](#).

Estimated emissions of air pollutants 1990-2012 and projections data are from the annual [European Union emission inventory submitted under the UNECE Convention on Long-range Transboundary Air Pollution \(LRTAP\)](#), and [data submitted under the EU National Emission Ceilings Directive \(81/2001/EC\)](#). Emissions data for some countries is gap-filled – further details are contained in the [annual EU emission inventory report submitted to the LRTAP Convention](#). Methane data is from GHG data reported under the EU GHG Monitoring Mechanism (280/2004/EC)/UNFCCC.

The 'with measures' projections illustrated refer to projections of anthropogenic emissions that encompass the effects, in terms of air pollutant emission reductions, of policies and measures that have been adopted at the time the projection is calculated.

Information on [source-receptor relationships](#) was obtained from EMEP for the year 2010 (website accessed 3 November 2014).

Air pollutant emissions and projections

Air pollutants are emitted from a range of both man-made and natural sources including:

- burning of fossil fuels in electricity generation, transport, industry, and households;
- industrial processes and solvent use, for example in the chemical and mining industries;
- agriculture;
- waste treatment;
- natural sources, including volcanic eruptions, windblown dust, sea-salt spray and emissions of volatile organic compounds from plants.

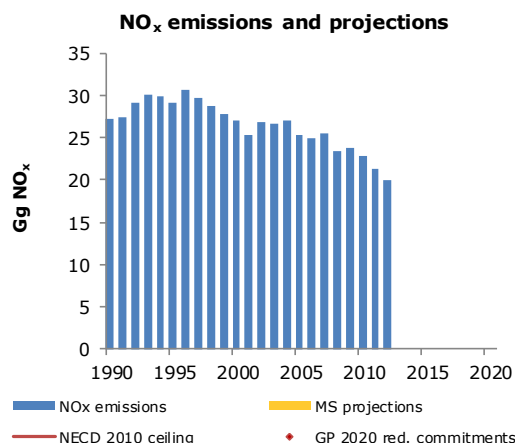
For EU Member States, the [National Emission Ceilings Directive](#) (NEC Directive) sets emission ceilings (or limits) for the year 2010 and thereafter for man-made emissions of four key air pollutants (nitrogen oxides, sulphur dioxide, non-methane volatile organic compounds, and ammonia). These pollutants harm human health and the environment. Information concerning the revision of the NEC Directive is available on the website of the European Commission's DG Environment [here](#).

Internationally, the issue of air pollution emissions is also addressed by the [UNECE Convention on Long-range Transboundary Air Pollution](#) (the LRTAP Convention) and its [protocols](#). The [Gothenburg 'multi-pollutant' protocol](#) under the LRTAP Convention was amended in May 2012. In addition to emission ceilings for 2010 (that for the EU Member States, are either equal to or less ambitious than those in the EU NEC Directive), the revised protocol now includes emission reduction commitments for 2020 expressed as a percentage of 2005 emissions. The revised Protocol also introduced a 2020 emission reduction commitment for PM_{2.5}.

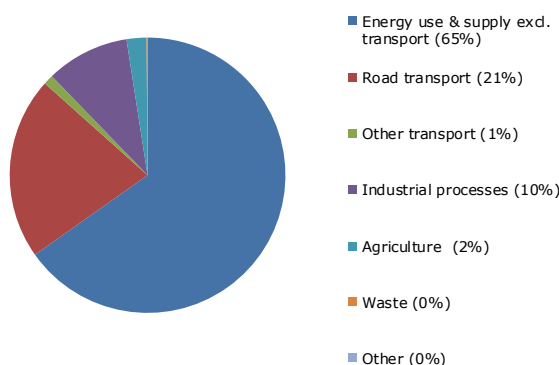
The following section shows information on the past emission trends of key air pollutants. It also compares the latest reported data with respective national ceiling limits and, shows (where this information is available) information on the expected level of future emissions.

Nitrogen oxides (NO_x)

Iceland



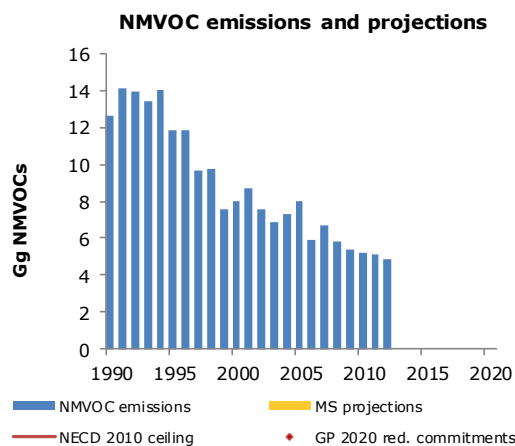
Emissions by sector - 2012



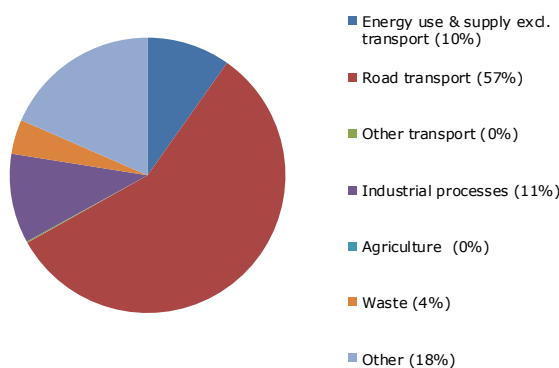
Progress towards ceilings	Current and projected progress towards ceilings		Value	Unit
	2010 NECD emission ceiling for NO _x		n/a	(Gg)
	2020 Gothenburg protocol (GP) reduction commitment for NO _x		n/a	(Gg)
	2015 with measures projections		n/a	(Gg)
	2020 with measures projections		n/a	(Gg)
		Absolute	Unit	Relative (%)
Distance of latest year NO _x emission data to emission ceiling in 2020		n/a	(Gg)	n/a
Trend of total NO _x emissions 1990-2012		- 7	(Gg)	- 26
Trend of total NO _x emissions 2001-2012 for comparison with air quality trends		- 5	(Gg)	- 21

Non methane volatile organic compounds (NMVOCs)

Iceland



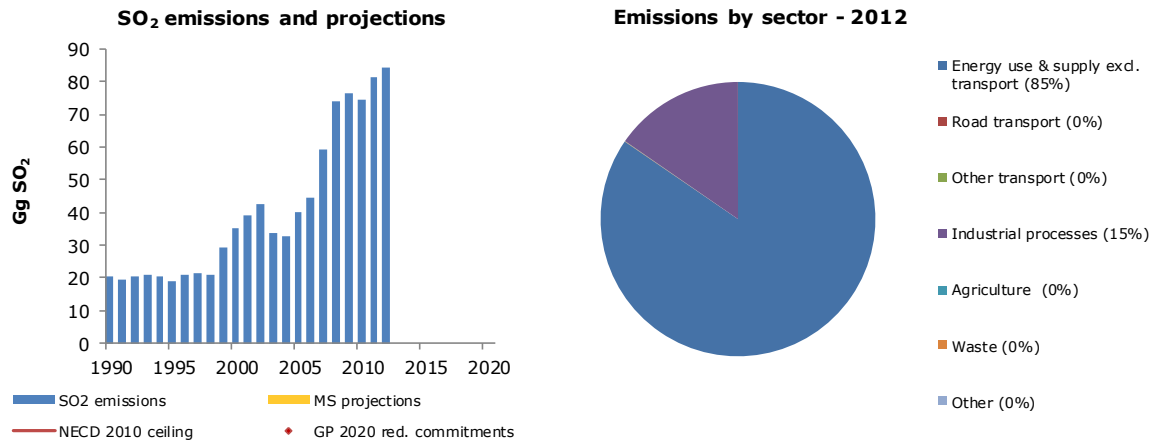
Emissions by sector - 2012



Progress towards ceilings	Current and projected progress towards ceilings		Value	Unit
	2010 NECD emission ceiling for NMVOCs		n/a	(Gg)
	2020 Gothenburg protocol (GP) reduction commitment for NMVOCs		n/a	(Gg)
	2015 with measures projections		n/a	(Gg)
	2020 with measures projections		n/a	(Gg)
		Absolute	Unit	Relative (%)
Distance of latest year NMVOC emission data to emission ceiling in 2020		n/a	(Gg)	n/a
Trend of total NMVOC emissions 1990-2012		- 8	(Gg)	- 61
Trend of total NMVOC emissions 2001-2012 for comparison with air quality trends		- 4	(Gg)	- 44

Sulphur dioxide (SO₂)

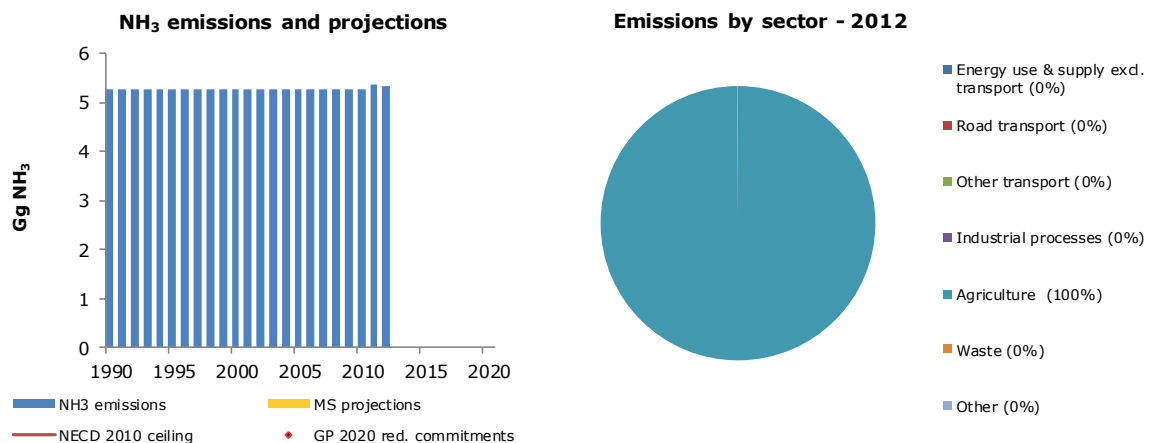
Iceland



Progress towards ceilings	Current and projected progress towards ceilings		Value	Unit
	2010 NECD emission ceiling for SO ₂		n/a	(Gg)
	2020 Gothenburg protocol (GP) reduction commitment for SO ₂		n/a	(Gg)
	2015 with measures projections		n/a	(Gg)
	2020 with measures projections		n/a	(Gg)
		Absolute	Unit	Relative (%)
Distance of latest year SO ₂ emission data to emission ceiling in 2020		n/a	(Gg)	n/a
Trend of total SO ₂ emissions 1990-2012		64	(Gg)	314
Trend of total SO ₂ emissions 2001-2012 for comparison with air quality trends		45	(Gg)	117

Ammonia (NH₃)

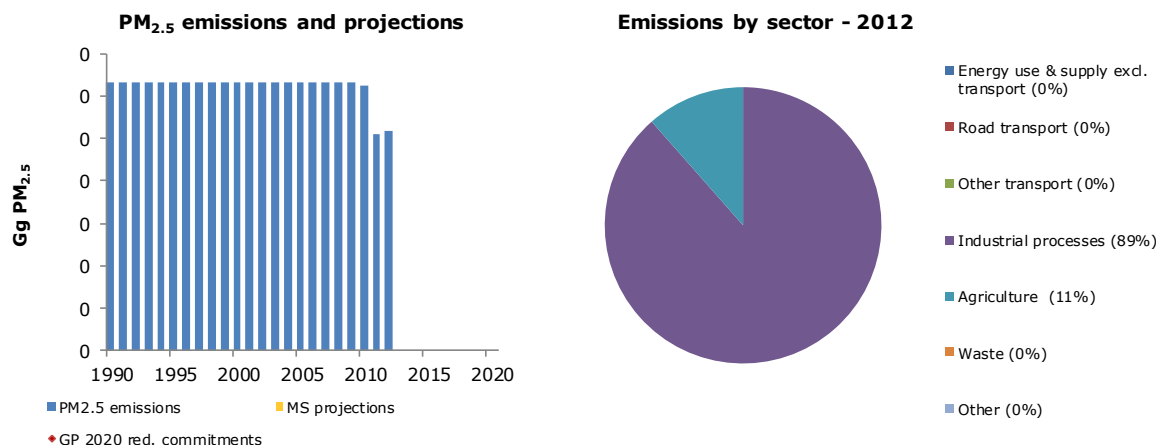
Iceland



Progress towards ceilings	Current and projected progress towards ceilings		Value	Unit
	2010 NECD emission ceiling for NH ₃		n/a	(Gg)
	2020 Gothenburg protocol (GP) reduction commitment for NH ₃		n/a	(Gg)
	2015 with measures projections		n/a	(Gg)
	2020 with measures projections		n/a	(Gg)
		Absolute	Unit	Relative (%)
Distance of latest year NH ₃ emission data to emission ceiling in 2020		n/a	(Gg)	n/a
Trend of total NH ₃ emissions 1990-2012		0	(Gg)	2
Trend of total NH ₃ emissions 2001-2012 for comparison with air quality trends		0	(Gg)	2

Fine particulate matter (PM_{2.5})

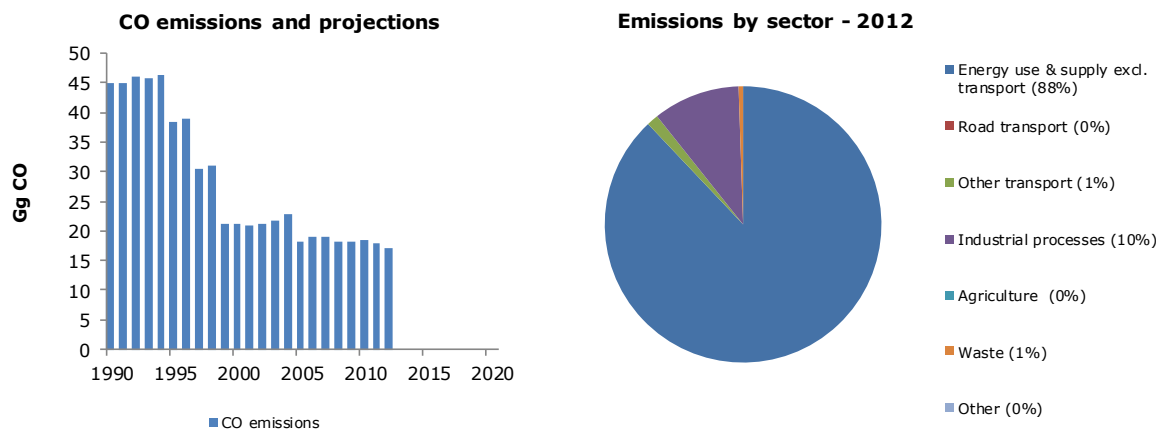
Iceland



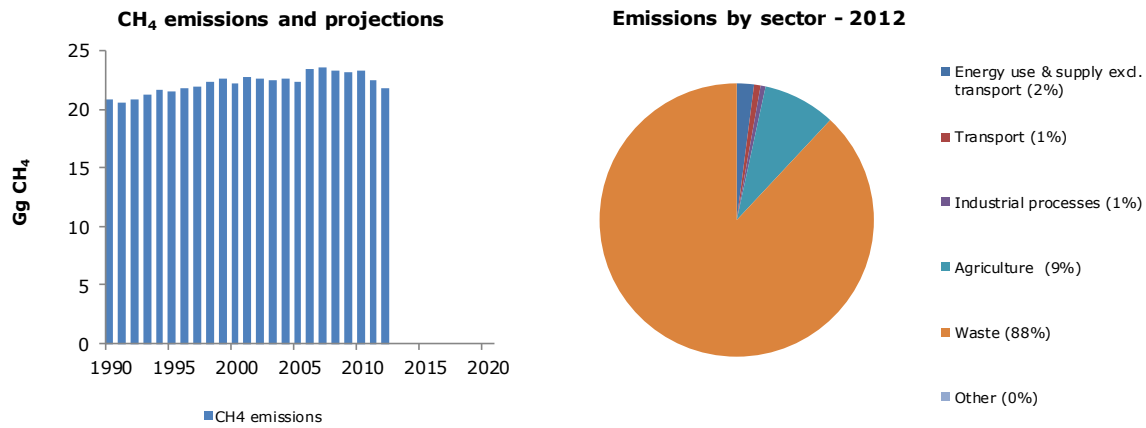
Progress towards ceilings	Current and projected progress towards ceilings		Value	Unit
	2010 NECD emission ceiling for PM _{2.5}		n/a	(Gg)
	2020 Gothenburg protocol (GP) reduction commitment for PM _{2.5}		n/a	(Gg)
	2015 with measures projections		n/a	(Gg)
	2020 with measures projections		n/a	(Gg)
		Absolute	Unit	Relative (%)
Distance of latest year PM _{2.5} emission data to emission ceiling in 2020		n/a	(Gg)	n/a
Trend of total PM _{2.5} emissions 1990-2012		0	(Gg)	- 18
Trend of total PM _{2.5} emissions 2001-2012 for comparison with air quality trends		0	(Gg)	- 18

Carbon monoxide (CO)

Iceland



Progress towards ceilings	Current and projected progress towards ceilings		Value	Unit
	2010 NECD emission ceiling for CO		n/a	(Gg)
	2020 Gothenburg protocol (GP) reduction commitment for CO		n/a	(Gg)
	2015 with measures projections		n/a	(Gg)
	2020 with measures projections		n/a	(Gg)
		Absolute	Unit	Relative (%)
Distance of latest year CO emission data to emission ceiling in 2020		n/a	(Gg)	n/a
Trend of total CO emissions 1990-2012		- 28	(Gg)	- 62
Trend of total CO emissions 2001-2012 for comparison with air quality trends		- 4	(Gg)	- 19



Progress towards ceilings	Current and projected progress towards ceilings		Value	Unit
		2010 NECD emission ceiling for CH ₄	n/a	(Gg)
	2020 Gothenburg protocol (GP) reduction commitment for CH ₄	n/a	(Gg)	
	2015 with measures projections	n/a	(Gg)	
	2020 with measures projections	n/a	(Gg)	
		Absolute	Unit	Relative (%)
	Distance of latest year CH ₄ emission data to emission ceiling in 2020	n/a	(Gg)	n/a
	Trend of total CH ₄ emissions 1990-2012	1	(Gg)	5
	Trend of total CH ₄ emissions 2001-2012 for comparison with air quality trends	- 1	(Gg)	- 4

Linking air emissions and air quality

Emissions of the main air pollutants in Europe have declined since 1990. Over the past decade, this reduction in emissions has resulted – for some of the pollutants – in improved air quality across the region. However, due to the complex links between emissions and air quality, emission reductions do not always produce a corresponding drop in atmospheric concentrations, especially for PM and O₃.

For example, while reductions of O₃-forming substances (i.e. O₃ precursor gases) have been substantial in Europe, O₃ concentrations in Europe have remained stable. Concentration levels depend on year-by-year variations in weather conditions including sunlight; natural emissions of ozone

precursor substances by vegetation; the increase in global background ozone concentrations; and transportation of ozone and of ozone precursor substances from source areas outside Europe. All these contributing factors mean that European emission reductions of pollutants contributing to the formation of ozone may not result in equivalent reductions of ozone concentrations.

Improving our understanding of air pollution therefore remains a challenge. Developing and implementing effective policy to reduce air pollution should be a priority. For further information, see the EEA annual report [Air quality in Europe](#).

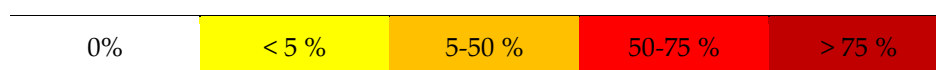
Exposure of urban population to selected air pollutants

Exposure of urban population ⁽¹⁾

Urban population exposed to air pollutant concentrations above the EU air quality objectives (2010-2012) ⁽²⁾

Iceland	EU reference value	Exposure estimate (%)		
		2010	2011	2012
PM ₁₀	day (50 µg/m ³)	0.0	0.0	0.0
O ₃	8-hour (120 µg/m ³)	<i>No data</i>	0.0	<i>No data</i>
NO ₂	year (40 µg/m ³)	0.0	0.0	0.0

The colour coding of exposure estimates refers to the fraction of urban population exposed to concentrations above the reference level:



⁽¹⁾ The detailed methodology of the calculation can be found at:

<http://www.eea.europa.eu/data-and-maps/indicators/exceedance-of-air-quality-limit-3>

⁽²⁾ The pollutants in this table are ordered in terms of their relative risk for health damage. The reference levels include EU limit or target values. For PM₁₀ and NO₂ the estimates are related to the most stringent EU limit value set for the protection of human health. For O₃ there is only one target value.

Air quality status

The calculations for the attainment status presented below have been made for stations with a data capture of at least 75 % per calendar year.

Nitrogen dioxide (NO₂)

NO₂ monitoring stations in the EEA's air quality database – AirBase (year 2012)

Station classification	Number of stations	Percentage
Other	0	0.0
Rural	0	0.0
Traffic	2	50.0
Urban	2	50.0
Total	4	100

A map with the stations location and classification can be found at:

<http://www.eea.europa.eu/themes/air/interactive/air-base-reporting-stations>.

Directive 2008/50/EC annual limit value (ALV): 40 µg/m³

NO₂ ALV attainment status at monitoring stations (year 2012)

Station classification	Number of stations	Number of stations in non-attainment of ALV	Percentage of stations in non-attainment of ALV (percentage of total)	Percentage of stations in non-attainment of ALV (percentage of station type)
Other	0	0	0.0	0.0
Rural	0	0	0.0	0.0
Traffic	1	0	0.0	0.0
Urban	2	0	0.0	0.0
Total	3	0	0.0	-

A map with the NO₂ annual mean concentrations at the reporting stations can be found at:

<http://www.eea.europa.eu/themes/air/interactive/no2>

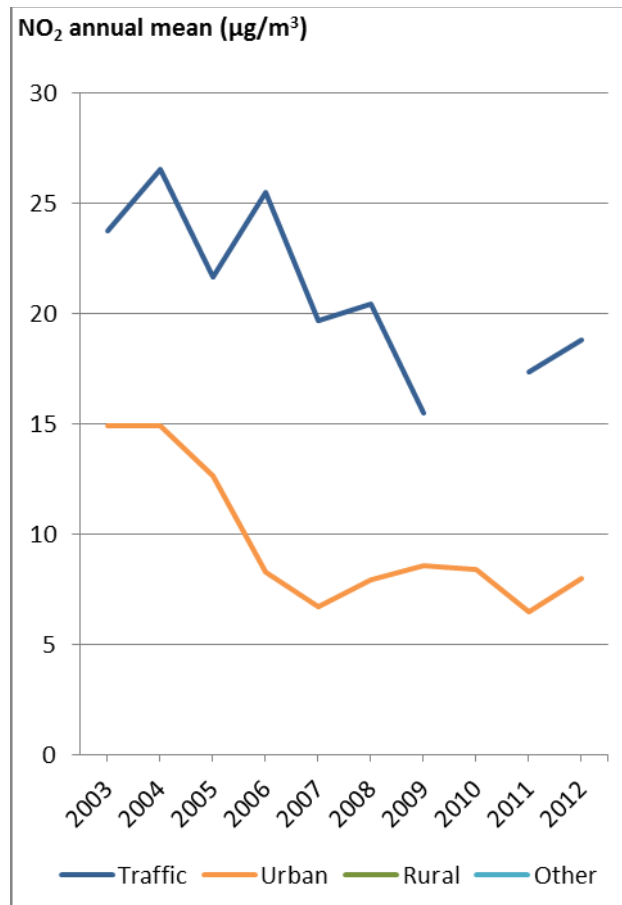
Directive 2008/50/EC hourly limit value (HLV): 200 µg/m³, not to be exceeded more than 18 times

NO₂ HLV attainment status at monitoring stations (year 2012)

Station classification	Number of stations	Number of stations in non-attainment of HLV	Percentage of stations in non-attainment of HLV (percentage of total)	Percentage of stations in non-attainment of HLV (percentage of station type)
Other	0	0	0.0	0.0
Rural	0	0	0.0	0.0
Traffic	1	0	0.0	0.0
Urban	2	0	0.0	0.0
Total	3	0	0.0	-

Changes in NO₂ concentrations

Changes in annual mean concentrations of NO₂ (2003-2012) per station type



Particulate matter (PM₁₀)

According to current legislation, Member States can subtract contributions from natural sources and from re-suspension due to sanding or salting of roads in the winter. The results below do not take into account these possible subtractions.

PM₁₀ monitoring stations in the EEA's air quality database – AirBase (year 2012)

Station classification	Number of stations	Percentage
Other	0	0.0
Rural	2	33.3
Traffic	2	33.3
Urban	2	33.3
Total	6	100

A map with the stations location and classification can be found at:

<http://www.eea.europa.eu/themes/air/interactive/airbase-reporting-stations>.

Directive 2008/50/EC annual limit value (ALV): 40 µg/m³

PM₁₀ ALV attainment status at monitoring stations (year 2012)

Station classification	Number of stations	Number of stations in non-attainment of ALV	Percentage of stations in non-attainment of ALV (percentage of total)	Percentage of stations in non-attainment of ALV (percentage of station type)
Other	0	0	0.0	0.0
Rural	1	0	0.0	0.0
Traffic	2	0	0.0	0.0
Urban	2	0	0.0	0.0
Total	5	0	0.0	-

A map with the PM₁₀ annual mean concentrations at the reporting stations can be found at:

<http://www.eea.europa.eu/themes/air/interactive/pm10>.

A map with the 90.4 percentile of PM₁₀ concentration in 2012 can be found at:

<http://www.eea.europa.eu/data-and-maps/figures/airbase-exchange-of-information-5>.

This percentile 90.4 represents, in a complete series, the 36th highest value. If it is above 50 µg/m³, it indicates non-attainment of the DLV.

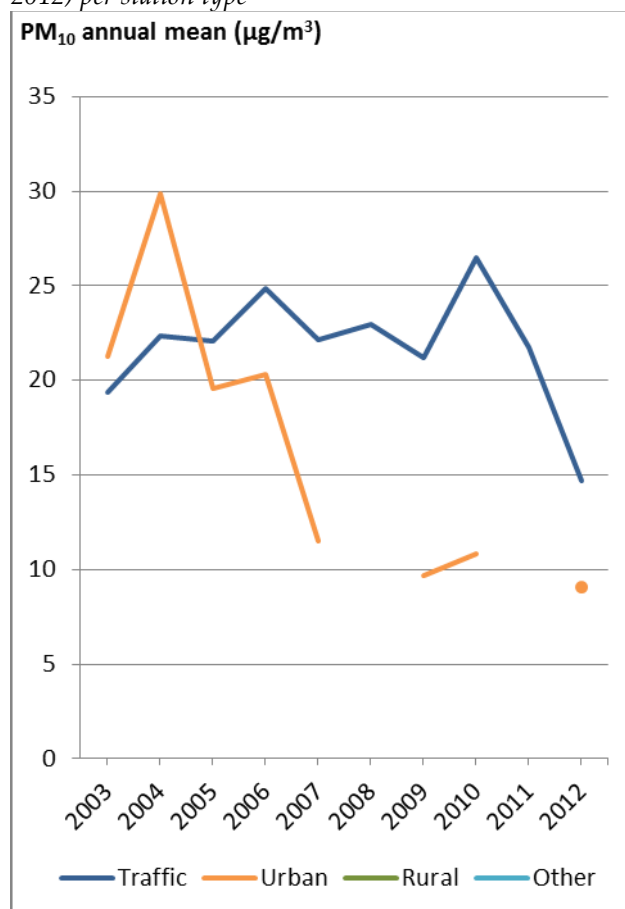
Daily limit value: 50 µg/m³, not to be exceeded more than 35 times

PM₁₀ DLV attainment status at monitoring stations (year 2012)

Station classification	Number of stations	Number of stations in non-attainment of DLV	Percentage of stations in non-attainment of DLV (percentage of total)	Percentage of stations in non-attainment of DLV (percentage of station type)
Other	0	0	0.0	0.0
Rural	1	0	0.0	0.0
Traffic	2	1	20.0	50.0
Urban	2	0	0.0	0.0
Total	5	1	20.0	-

Changes in PM₁₀ concentrations

Changes in annual mean concentrations of PM₁₀ (2003-2012) per station type



Ozone (O₃)

The results presented below have been calculated for the target value threshold (TVt) as defined in the annual summer ozone reports published by EEA ⁽³⁾.

Ozone monitoring stations in the EEA's air quality database – AirBase (for protection of human health, year 2012)

Station classification	Number of stations	Percentage
Other	n/a	n/a
Rural	n/a	n/a
Traffic	n/a	n/a
Urban	n/a	n/a
Total	n/a	n/a

Protection of human health: Directive 2008/50/EC long term objective (LTO): Maximum daily eight-hour mean = 120 µg/m³. Target value threshold (TVt): 25 exceedances of the LTO

Ozone TVt attainment status at monitoring stations (year 2012)

Station classification	Number of station	Number of stations in non-attainment of TVt	Number of stations in non-attainment of LTO but of TVt	Percentage of stations in non-attainment of TVt (percentage of total)	Percentage of stations in non-attainment of LTO but TVt (percentage of total)	Percentage of stations in non-attainment of TVt (percentage of station type)	Percentage of stations in non-attainment of LTO but TVt (percentage of station type)
Other	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Rural	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Traffic	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Urban	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Total	n/a	n/a	n/a	n/a	n/a	-	-

⁽³⁾ EEA technical report No 3/2013: [Air pollution by ozone across Europe during summer 2012](#)

Changes in ozone concentrations

Changes in annual mean of the daily maximum 8-h average O₃ (2003-2012) per station type

This indicator is not available for the whole period of the trend analysis (2003-2012).

Changes in concentrations and impacts of air pollutants caused by emissions from other countries

Source-receptor (SR) relationships are a type of data developed by the Cooperative Programme for Monitoring and Evaluation of the Long-range Transmission of Air Pollutants in Europe (EMEP). SRs provide information on the change in air concentrations, deposition or impacts that arise from changes in emissions from different emitting countries.

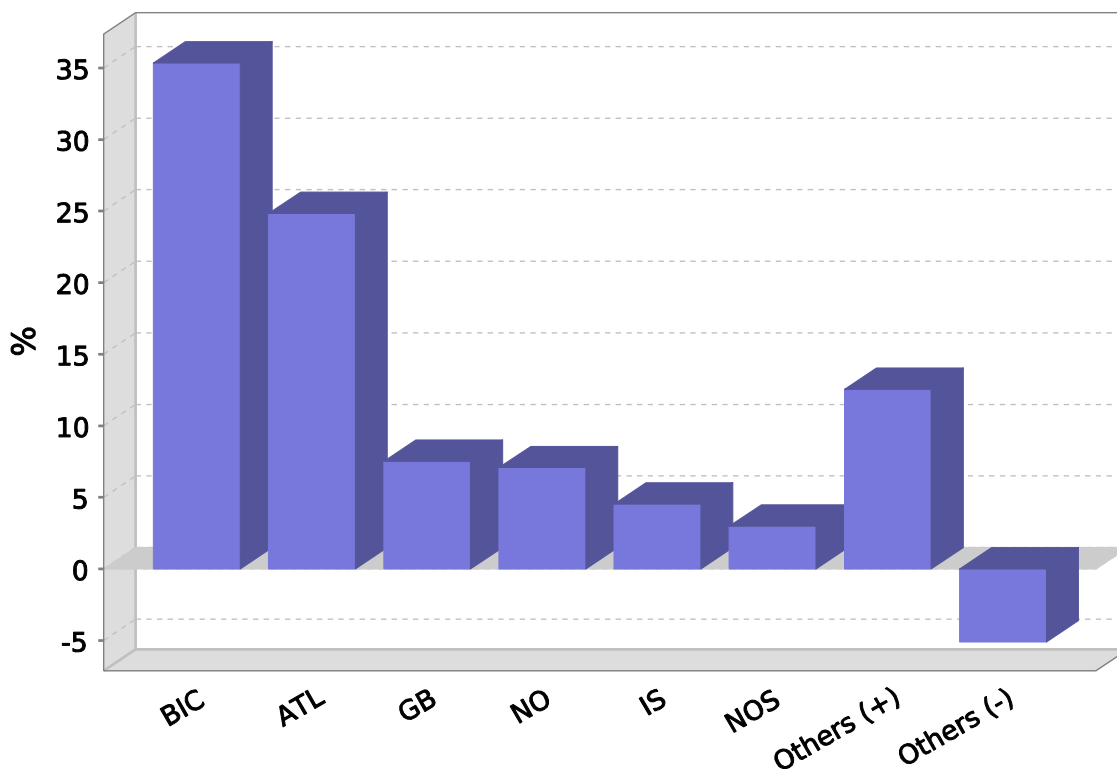
Each figure which follows provides an indication of the distribution of imported air pollution by country. Results are dependent upon the version of the EMEP model being used, the absolute magnitude of emissions, and meteorological drivers.

The charts below show the source-receptor relationships for each country for three selected parameters:

- Ground-level mean ozone over 35 ppb (SOMO35) (effect of a 15% reduction in precursor NO_x emissions);
- Ground-level mean ozone over 35 ppb (SOMO35) (effect of a 15% reduction in precursor NMVOC emissions);
- PM_{2.5}. Effect on PM_{2.5} concentrations caused by a 15% reduction in all precursor emissions (i.e. primary PM_{2.5}, SO_x, NO_x, NH₃ and VOC).

Further information on the source-receptor matrices is available from the [EMEP website](#).

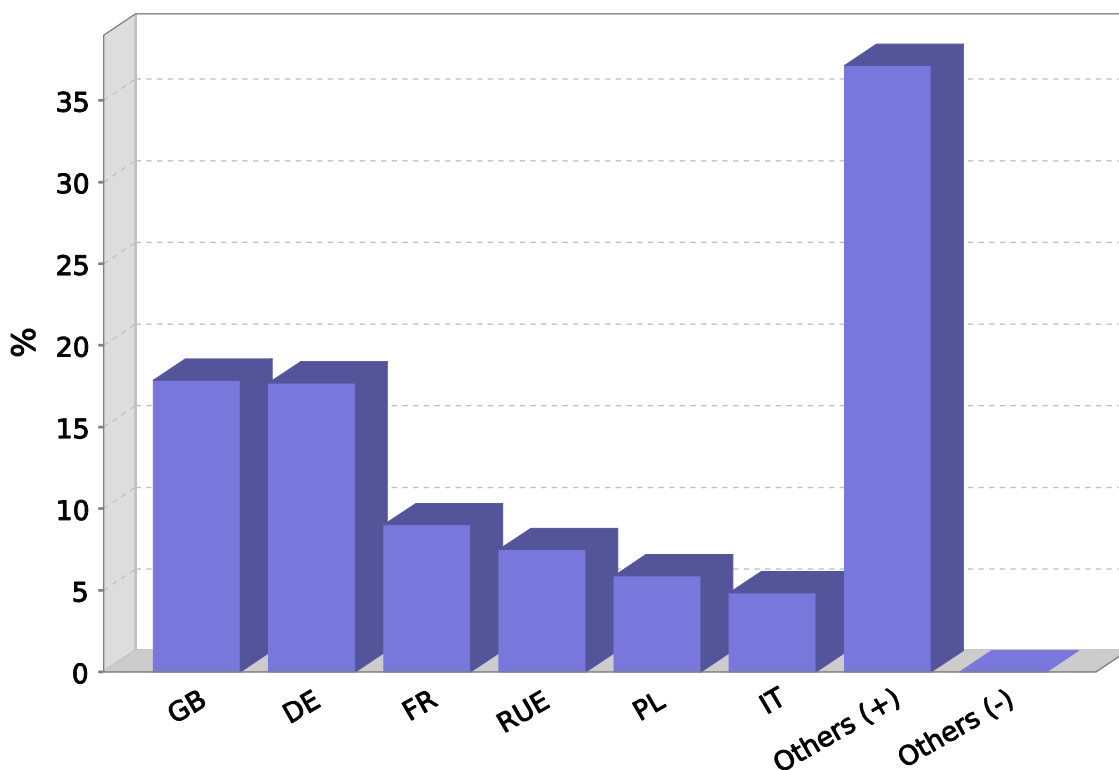
The six most important emitter countries, or regions, with respect to the reduction in SOMO35 in Iceland that would result from a 15 % decrease in NO_x emissions



Source: EMEP/MSC-W

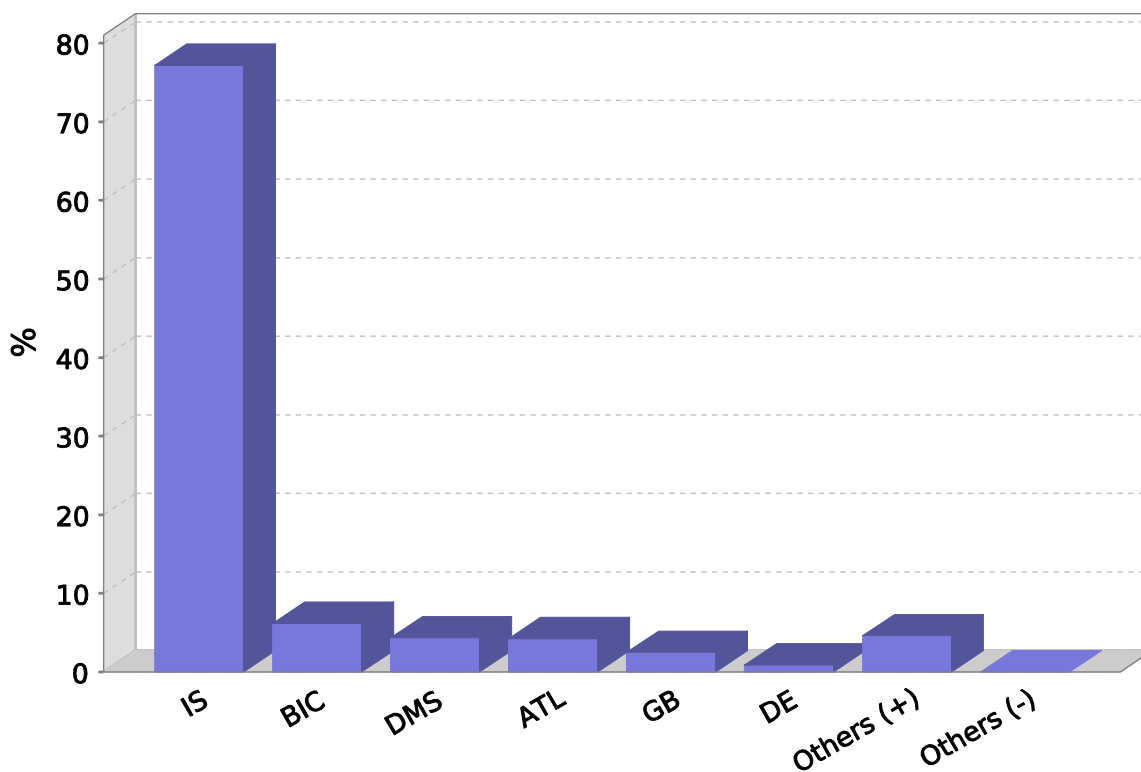
Note: BIC – Boundary and Initial Conditions; ATL – Remaining N.E. Atlantic; NOS – North Sea; RUE – Russian Federation (extended EMEP domain); DMS – dimethylsulphide particles from sea

The six most important emitter countries, or regions, with respect to the reduction in SOMO35 in Iceland that would result from a 15 % decrease in NMVOC emissions



Source: EMEP/MSC-W

The six most important emitter countries, or regions, with respect to the reduction in primary and secondary PM_{2.5} in Iceland that would result from a 15 % reduction in emissions



Source: EMEP/MSC-W

Units, abbreviations and acronyms

ALV	Annual limit value	NO	Nitrogen monoxide
C ₆ H ₆	Benzene	NO ₂	Nitrogen dioxide
CH ₄	Methane	NO _x	Nitrogen oxides
CO	Carbon monoxide	O ₃	Ozone
DLV	Daily limit value	PAH(s)	Polycyclic aromatic hydrocarbon(s)
EEA	European Environment Agency	PM	Particulate matter
EMEP	European Monitoring and Evaluation Programme (Cooperative programme for monitoring and evaluation of the long-range transmissions of air pollutants in Europe)	PM ₁₀	Coarse particulate matter (particles measuring 10 µm or less)
EU	European Union	PM _{2.5}	Fine particulate matter (particles measuring 2.5 µm or less)
Gg	1 gigagram = 10 ⁹ g = 1 kilotonne (kt)	ppb	parts per billion
GHG	Greenhouse gas	SO ₂	Sulphur dioxide
GP	Gothenburg Protocol of the LRTAP Convention	SO _x	Sulphur oxides
HLV	Hourly limit value	SOMO35	The sum of the amounts by which maximum daily 8-hour concentrations of ozone exceed 70 µg m ⁻³ (cut-off value) on each day in a calendar year.
LRTAP	Long-range Transboundary Air Pollution (Convention)	SR	Source-receptor relationships
LTO	Long-term objective	TVt	Target value threshold
MS	Member State	µg/m ³	micrograms per cubic meter
MSC-W	EMEP Meteorological Synthesizing Centre - West	UNECE	United Nations Economic Commission for Europe
n/a	Not applicable/not available	UNFCCC	United Nations Framework Convention on Climate Change
NECD	NEC Directive: EU National Emission Ceilings Directive (2001/81/EC)	VOC(s)	Volatile organic compound(s)
NH ₃	Ammonia		
NMVOC(s)	Non-methane volatile organic compound(s)		

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