

## Examples of useful indicators for monitoring effects on air

Headline SEA Objective: To Improve air quality and reduce emissions of key pollutants	
SEA Sub-objective	Example indicators
To improve air quality	<ul style="list-style-type: none"> <li>Concentration of all AQS pollutants within urban areas (<math>\mu\text{g.m}^{-3}</math>) (e.g. Masterplan area)</li> <li>Number of exceedances of AQS objectives (per month)</li> <li>Number of AQMAs (per year)</li> <li>Percentage of serious illnesses related to poor air quality (per year)</li> <li>Percentage of ecosystem areas that exceed acidification limits (per year)</li> <li>Percentage of vehicles checked which exceed prescribed emission limits (yearly)</li> </ul>
To reduce concentrations of oxides of nitrogen in air	<ul style="list-style-type: none"> <li>Concentration of oxides of nitrogen in air (<math>\mu\text{g.m}^{-3}</math>)</li> <li>Number of exceedances of oxides of nitrogen concentrations above <math>200\mu\text{g.m}^{-3}</math> (1 hour mean) or <math>40\mu\text{g.m}^{-3}</math> (annual mean)</li> </ul>
To reduce concentrations of particulates $\text{PM}_{10}$ and $\text{PM}_{2.5}$	<ul style="list-style-type: none"> <li>Concentration of particulates <math>\text{PM}_{10}</math> and <math>\text{PM}_{2.5}</math> (<math>\mu\text{g.m}^{-3}</math>)</li> <li>Number of exceedances per year of <math>\text{PM}_{10}</math> concentrations above <math>50\mu\text{g.m}^{-3}</math> (24 hour mean), <math>40\mu\text{g.m}^{-3}</math> (annual mean – current guideline value) and <math>18\mu\text{g.m}^{-3}</math> (annual mean – 2010 objective) (this applies to Scotland only)</li> </ul>
To reduce concentrations of $\text{SO}_2$ in air	<ul style="list-style-type: none"> <li>Concentration of <math>\text{SO}_2</math> in air (<math>\mu\text{g.m}^{-3}</math>)</li> <li>Number of exceedances per year of <math>\text{SO}_2</math> concentrations above <math>350\mu\text{g.m}^{-3}</math> (1 hour mean) or <math>125\mu\text{g.m}^{-3}</math> (24 hour mean)</li> </ul>
To reduce levels of air pollution	<ul style="list-style-type: none"> <li>Volume of all AQS pollutants emitted from all regulated sources (per month)</li> <li>Percentage of households owning one or more private cars</li> <li>Vehicle kilometres of travel</li> </ul>
To reduce emissions of point source air pollution	<ul style="list-style-type: none"> <li>Volume of all AQS pollutants emitted from all regulated sources (per month)</li> <li>Number of breaches of regulations for industrial emissions of Air Quality Strategy pollutants (per month)</li> <li>Percentage modal split in transport use (per year)</li> <li>Percentage of new houses/ buildings meeting British Research Establishment Environmental Assessment Method (BREEAM) standards for sustainable buildings (within Plan area)</li> </ul>
To reduce emissions of linear/ nodal sources of air pollution	<ul style="list-style-type: none"> <li>Volume of all AQS pollutants emitted from linear/ nodal sources (per month)</li> <li>Trunk road length and capacity within Plan area (per year)</li> <li>Traffic flow on key routes within Plan area (vehicles per month)</li> <li>Percentage modal split for key journeys within Plan area (per year)</li> <li>Carrying capacity of public transport services within Plan area (persons per year)</li> <li>Number of services offered at key transport nodes within Plan area (per month)</li> </ul>
To reduce emissions of area source air pollution	<ul style="list-style-type: none"> <li>Volume of all AQS pollutants emitted from area sources (per month)</li> <li>Percentage of new houses/ buildings meeting BREEAM standards for sustainable buildings (within Plan area)</li> <li>Traffic levels in bypassed areas (per month)</li> <li>Congestion levels in towns (average time lost per vehicle kilometer during a 1 month period)</li> </ul>
To reduce the level of nuisance (e.g. odour, dust)	<ul style="list-style-type: none"> <li>Number of complaints made regarding nuisance (by type per month)</li> <li>Number of recorded breaches of regulations (associated with statutory nuisance) on construction/ demolition sites (per month)</li> </ul>

**Note:** This table provides a framework to illustrate how this guidance could be used.