Swedish goals for climate



Sweden's environmental objectives

The Swedish Parliament has set a number of environmental objectives to promote sustainable development.

These goals guide environmental efforts in Sweden.
They point the way to a sustainable society.

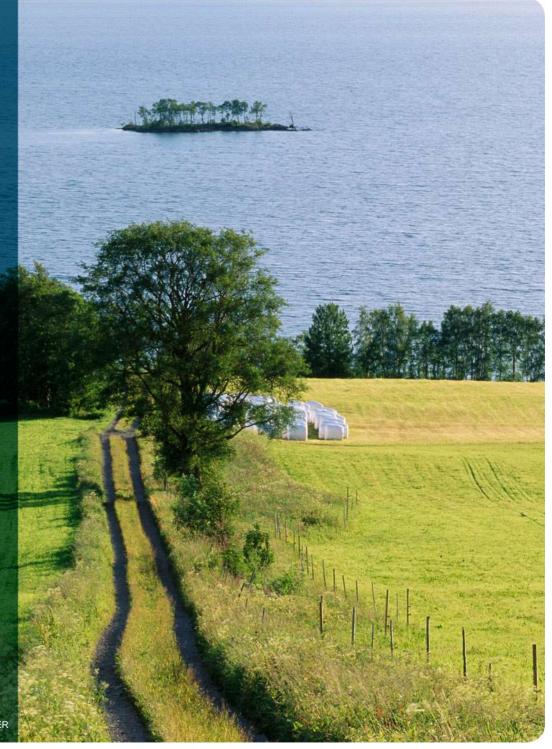




PHOTO: HÅKAN HJORT/JOHNÉ

The Riksdag has adopted 16 objectives for environmental quality in Sweden



Reduced Climate Impact



Clean Air



Natural Acidification Only



A Non-Toxic Environment



A Protective Ozone Layer



A Safe Radiation Environment



Zero Eutrophication



Flourishing Lakes and Streams



Good-Quality Groundwater



A Balanced Marine Environment, Flourishing Coastal Areas and Archipelagos



Thriving Wetlands



Sustainable Forests



A Varied Agricultural Landscape



A Magnificent Mountain Landscape



A Good Built Environment



A Rich Diversity of Plant and Animal Life



The environmental objectives system

- promoting cooperation at several levels
- National environmental quality objectives
 Eight national lead agencies
- Other government agencies with responsibilities within the environmental objectives system
- Regional environmental objectives
 County administrative boards
- Local environmental objectives
 Local authorities (municipalities)

The business sector, stakeholder organisations and the public are crucial to achieving the objectives.





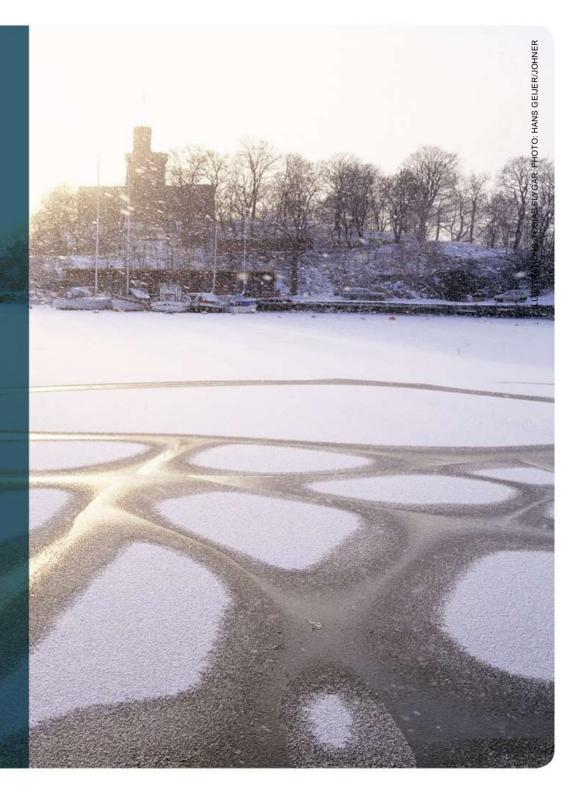
"Bullet points" of the generational goal

- Ecosystems are on the way to recovery
- Biodiversity and the natural and cultural environment are conserved
- Human health is subject to a minimum of adverse impacts from factors in the environment
- Materials cycles are resource-efficient and, as far as possible, free from dangerous substances
- Natural resources are managed sustainably
- The share of renewable energy increases and use of energy is efficient
- Patterns of consumption of goods and services cause the least possible problems for the environment and human health



1. Reduced Climate Impact

The UN Framework Convention on Climate Change provides for the stabilization of concentrations of greenhouse gases in the atmosphere at levels which ensure that human activities do not have a harmful impact on the climate system. This goal must be achieved in such a way and at such a pace that biological diversity is preserved, food production is assured and other goals of sustainable development are not jeopardized. Sweden, together with other countries, must assume responsibility for achieving this global objective.





2. Clean Air The air must be clean enough not to represent a risk to human health or to animals, plants or cultural assets. Miljömål



4. A Non Toxic Environment

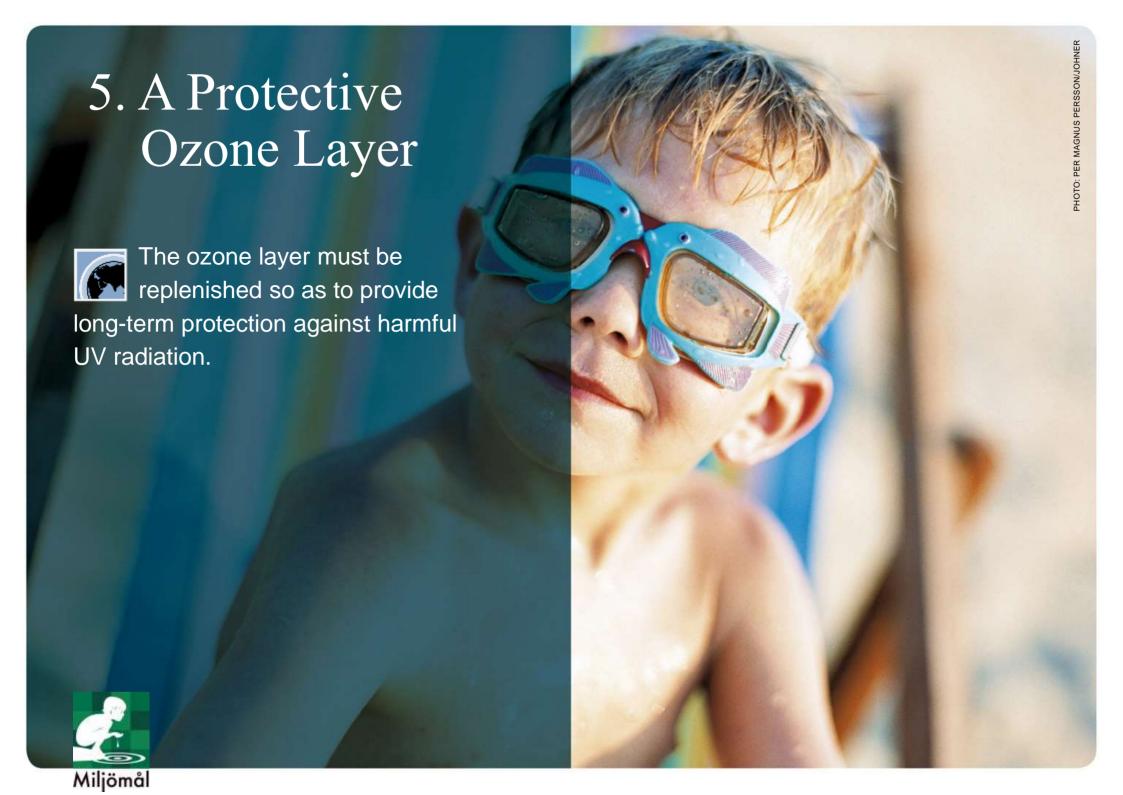
The occurence of man-made or extracted compounds in the environment must not represent a threat to human health or biological diversity.

Concentrations of non-naturally occuring substances will be close to zero and their impacts on human health and on ecosystems will be negligible.

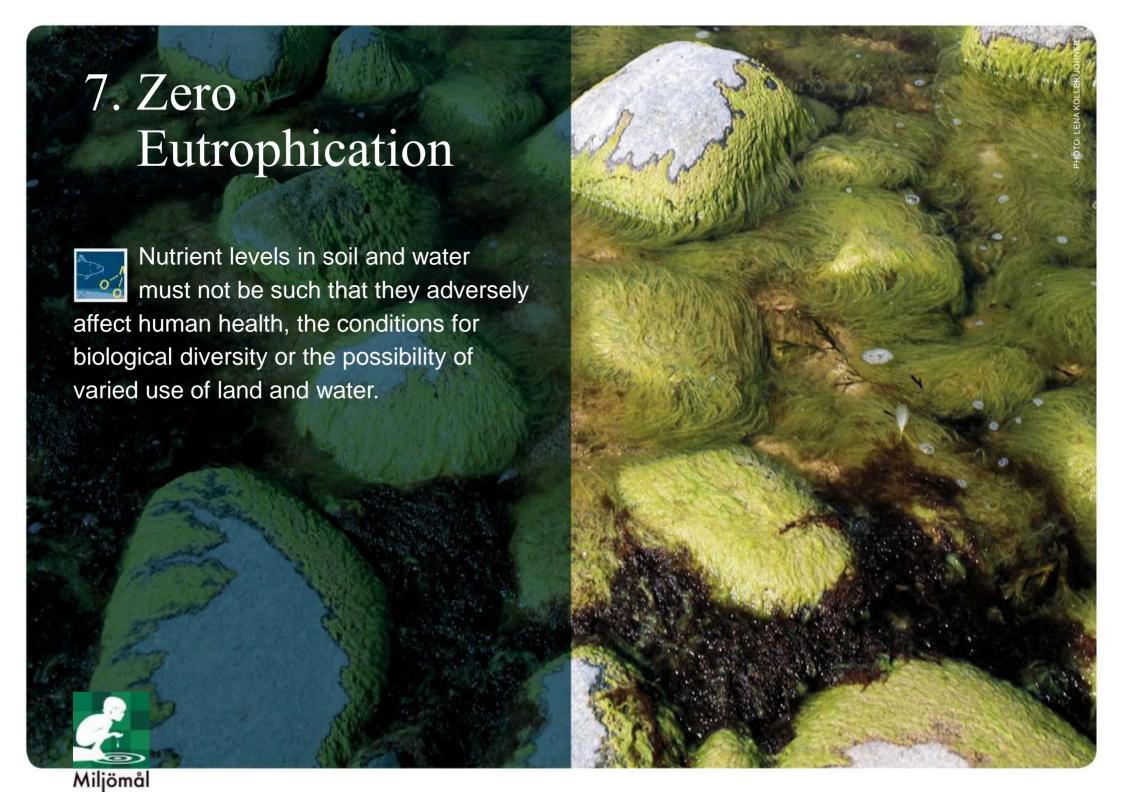
Concentrations of naturally occuring substances will be close to background levels.









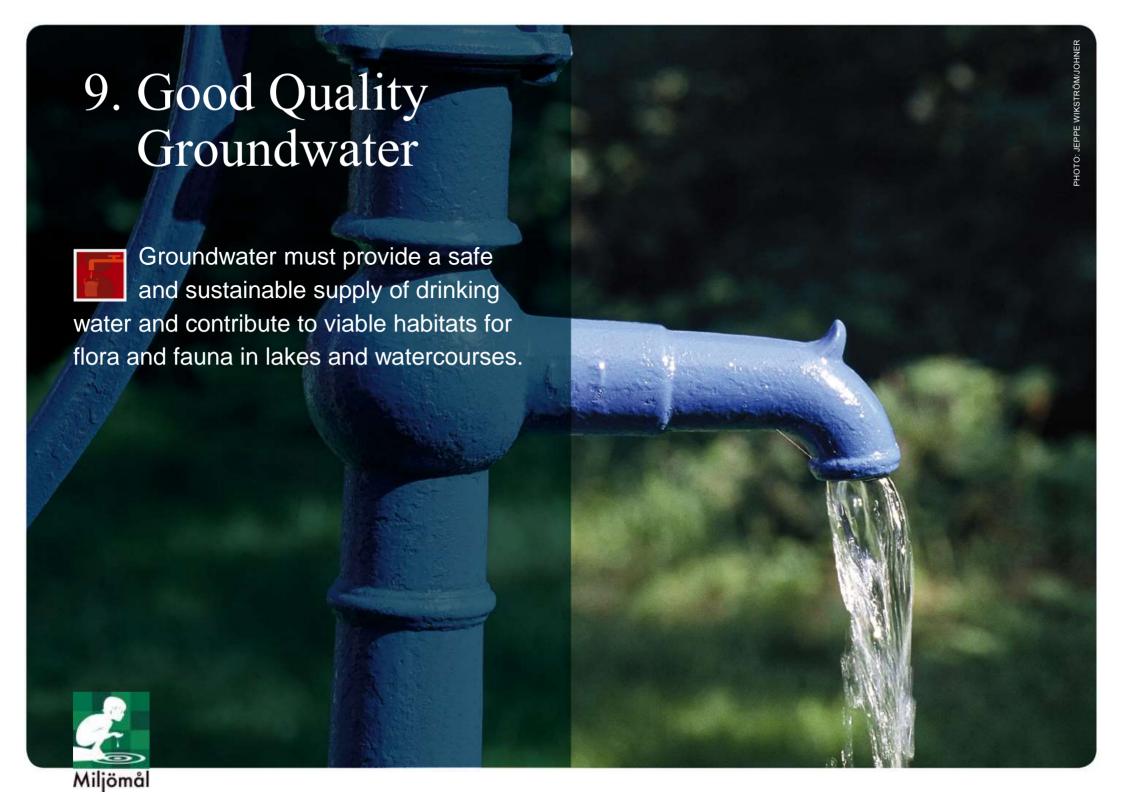


8. Flourishing Lakes and Streams

Lakes and watercourses must be ecologically sustainable and their variety of habitats must be preserved.

Natural productive capacity, biological diversity, cultural heritage assets and the ecological and water-conserving function of the landscape must be preserved, at the same time as recreational assets are safeguarded.

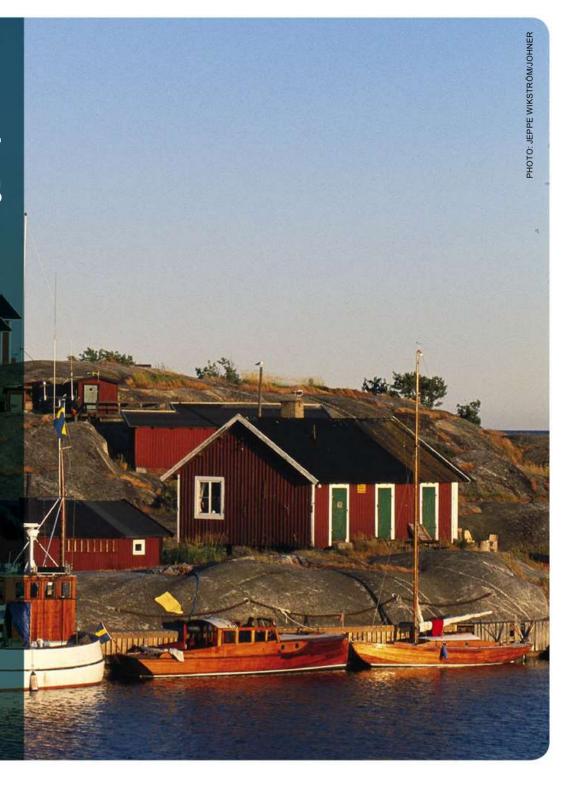




10. A Balanced Marine Environment, Flourishing Coastal Areas and Archipelagos

The North Sea and the Baltic Sea must have a sustainable productive capacity, and biological diversity must be preserved. Coasts and archipelagos must be characterized by a high degree of biological diversity and a wealth of recreational, natural and cultural assets. Industry, recreation and other utilization of the seas, coasts and archipelagos must be compatible with the promotion of sustainable development.

Particularly valuable areas must be protected against encroachment and other disturbance.

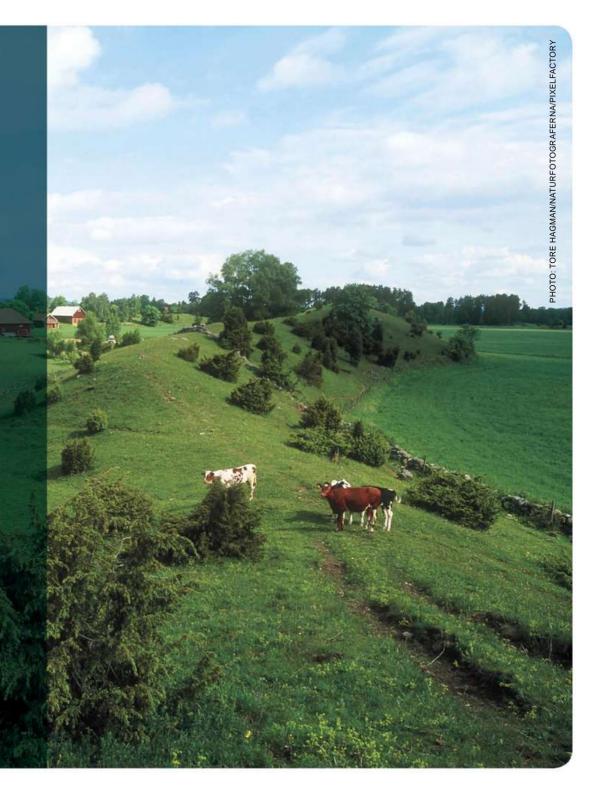






13. A Varied Agricultural Landscape

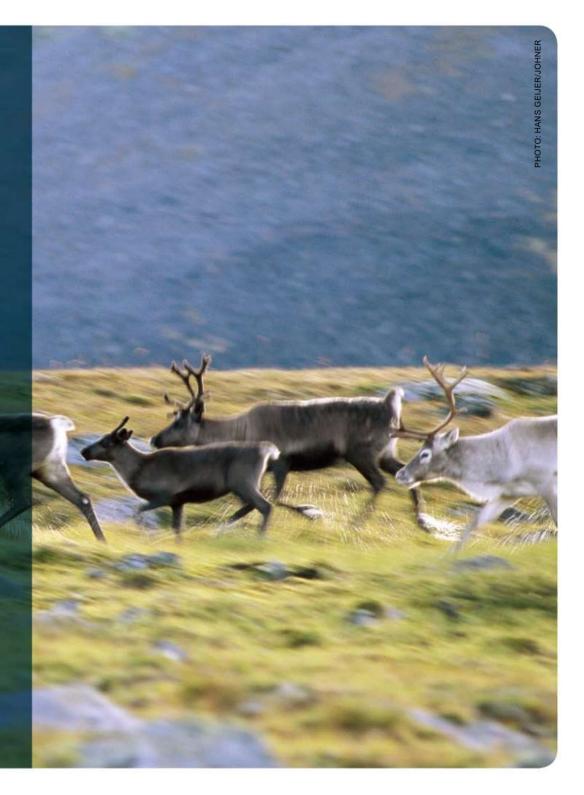
The value of the farmed landscape and agricultural land for biological production and food production must be protected, at the same time as biological diversity and cultural heritage assets are preserved and strengthened.





14. A Magnificent Mountain Landscape

The pristine character of the mountain environment must be largely preserved, in terms of biological diversity, recreational value, and natural and cultural assets. Activities in mountain areas must respect these values and assets, with a view to promoting sustainable development. Particularly valuable areas must be protected from encroachment and other disturbance.





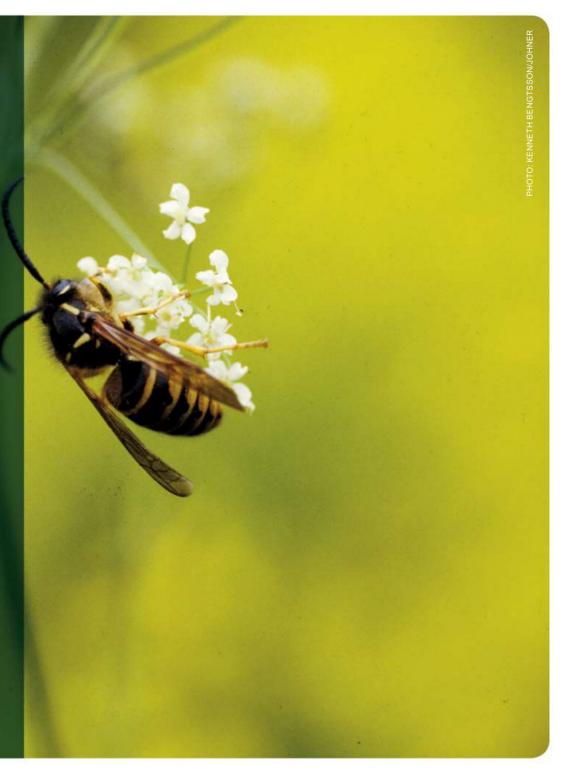
15. A Good Built Environment

Cities, towns and other built-up areas must provide a good, healthy living environment and contribute to a good regional and global environment. Natural and cultural assets must be protected and developed. Buildings and amenities must be located and designed in accordance with sound environmental principles and in such a way as to promote sustainable management of land, water and other resources.



16. A Rich Diversity of Plant and Animal Life

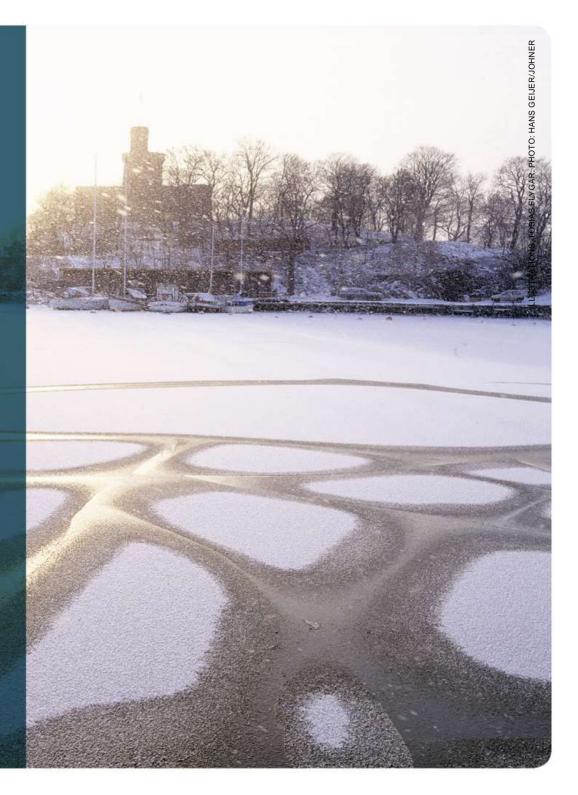
Biological diversity must be preserved and used sustainably for the benefit of present and future generations. Species habitats and ecosystems and their functions and processes must be safeguarded. Species must be able to survive in long-term viable populations with sufficient genetic variation. Finally, people must have access to a good natural and cultural environment rich in biological diversity, as a basis for health, quality of life and well-being.





1. Reduced Climate Impact

In accordance with the UN Framework Convention on Climate Change, concentrations of greenhouse gases in the atmosphere must be stabilised at a level that will prevent dangerous anthropogenic interference with the climate system. This goal must be achieved in such a way and at such a pace that biological diversity is preserved, food production is assured and other goals of sustainable development are not jeopardised. Sweden, together with other countries, must assume responsibility for achieving this global objective.



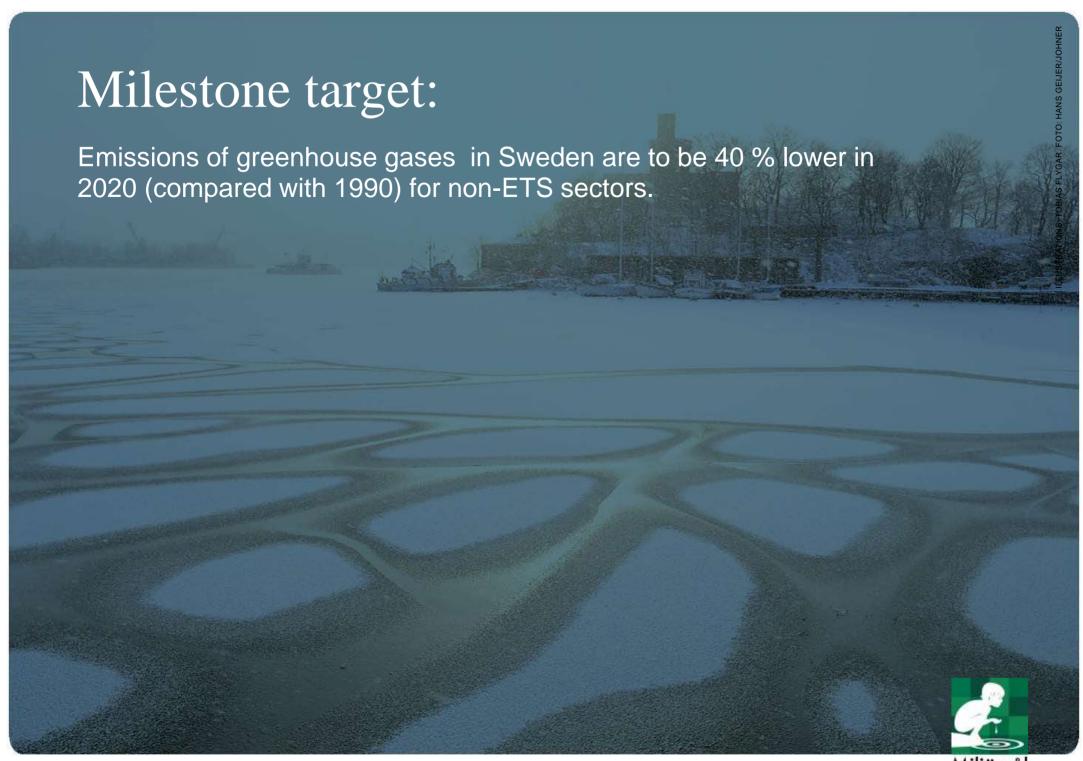




1. Reduced Climate Impact

The Swedish Parliament has adopted two specifications for this environmental quality objective, concerning

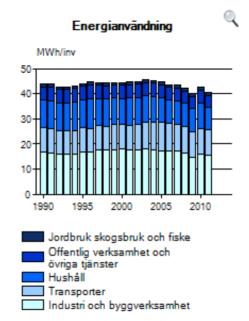
- 1. Temperature (2 °C)
- 2. Concentration (400 ppm)



Example of an indicator:

Energy use

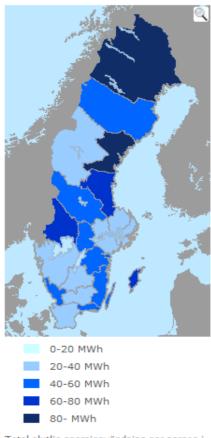
Energianvändning



Slutlig energianvändning (MWh) per person i riket (år 1990–2009).



Energy use

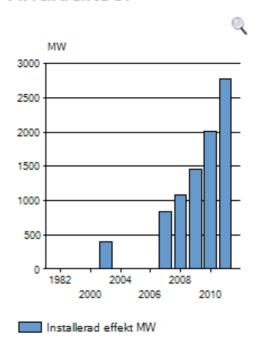


Total slutlig energianvändning per person i varje län år 2009.



Electricity from wind power

Vindkraftsel

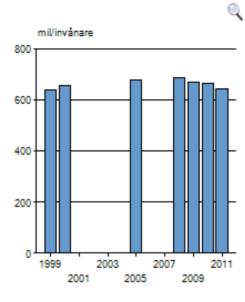


Vindkraftsel, installerad effekt i Sverige. Källa: Energimyndigheten. Vindkraftsstatistik 2011. (ES 2012:02)



Distance driven with passenger cars

Körsträcka med bil



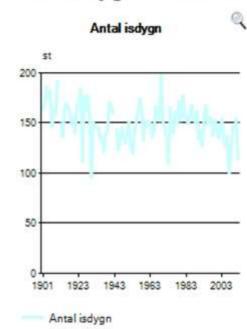
Körsträckor

Antal körda mil med bil i genomsnitt per svensk och år. I körsträckorna ingår även de mil som blivit körda i utlandet.



Number of days with ice

Antal isdygn - Jämtlands län

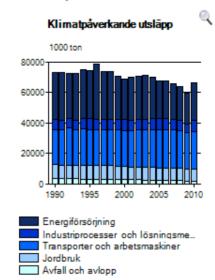


Isperiodens längd på Storsjön i Jämtlands län (1901-2012)



Emissions of greenhouse gases in Sweden

Klimatpåverkande utsläpp



Klimatpåverkande utsläpp i Sverige, i koldioxidekvivalenter och fördelade på samhällssektorer. Koldioxid, metan, dikväveoxid (=lustgas) och sex fluorerade gaser är medräknade i utsläppsmängden. Koldioxidekvivalenten är olika för olika gaser beroende på effekten av klimatpåverkan.

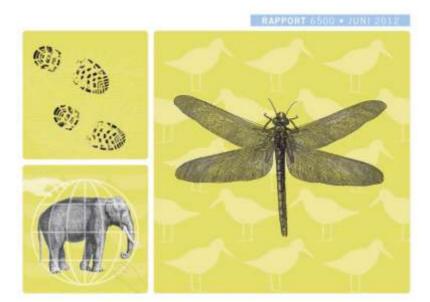
Greenhouse gas emissions in 1000 tonnes of carbon dioxide equivalents.

Miljömål



Steg på vägen

Fördjupad utvärdering av miljömålen 2012





Key to symbols



YES: The environmental quality objective will be achieved with policy instruments already decided on and with measures implemented before 2020.



CLOSE: The environmental quality objective is close to being achieved. Plans now exist for policy instruments that will be decided on before 2020.



NO: It is not possible to achieve the environmental quality objective by 2020 on the basis of policy instruments already decided on or planned.





Will the environmental quality objectives be achieved?

- No Reduced Climate Impact
- No Clean Air
- Natural Acidification Only
- No A Non-Toxic Environment
- Ves A Protective Ozone Layer
- Glose A Safe Radiation Environment
- No Zero Eutrophication
- No Flourishing Lakes and Streams

- No Good-Quality Groundwater
- A Balanced Marine Environment,
 Flourishing Coastal Areas and Archipelagos
- No Thriving Wetlands
- No Sustainable Forests
- No A Varied Agricultural Landscape
- No A Magnificent Mountain Landscape
- No A Good Built Environment
- No A Rich Diversity of Plant and Animal Life



The regional and local level







The climate vision

Sweden shall have a sustainable and resource efficient energy supply and zero net emissions of greenhouse gases by the year 2050.





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