

GLOBAL WARMING

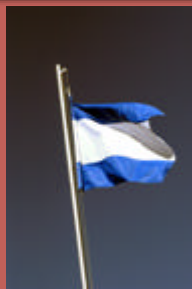
Subcommittee on Winter City
Environmental Issues

Sapporo, 2007

Compilation of plans to counteract the global warming



Presentation of the Mayor



Maardu

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1.2. Has your national government set a goal for reducing CO₂ or other greenhouse gasses (GHG)?

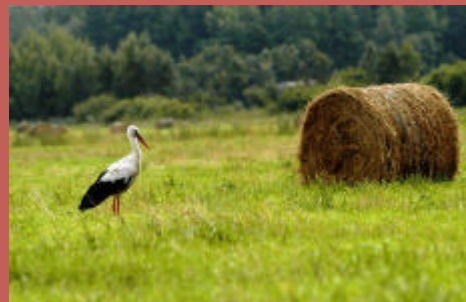
- Yes.
- It exists within the frames of the Law on Environmental Strategy of Estonia that includes:
 - main principle of the environmental strategy;
 - concepts of the usage of natural resources and of preservation of nature;
 - international cooperation;
 - application of environmentally sound technologies;
 - reduction of negative impact of power industry on nature;
 - improvement of air quality.
- A number of reconstruction and implementation projects are carried out within the framework of the Law on Environmental Strategy of Estonia, concerning reduction of CO₂, SO₂ and fly ash emissions at oil-shale power plants of the country.
- Thus, the results of the substitution of the oil-shale pulverized combustion technology for the technology of burning oil-shale in circulating fluidized bed has made it possible to reduce SO₂ emissions by 166..246 times, fly ash – by 3.9..8.4 times, NO_x – by 2.4..3 times and CO₂ by 1.2 times. The emissions of NCl have also been reduced by 3.7%, of arsenic powder – by 3.5%, of mercury – by 4.6%, of cadmium – by 4.6%, of lead – by 3.4% and of other high-density metals – by 3.1..3.6%. At that, fuel consumption is reduced by 3.6% and the payments of the enterprise for fuel and emissions are reduced by 12%.

Question 1: Compilation of plans to counteract the global warming

1.1. Has your national government made plans for measures to counteract the global warming?

- Yes.
- In Estonia there is a programme in operation on implementing alternative „green“ types of electric energy. For example, the plans to build a park of wind power generators, to construct or renovate the existing hydro power stations is already under way. The plan to develop the electric power market, which is now in the stage of evolution, is in the process of implementation.
- Large scale introduction of new and ecologically effective technology of burning combustible shale in circulating fluidized bed instead of the obsolete technology of pulverized combustion has been commenced at oil-shale thermal power plants (JSC Narva Power Plants).
- New electric filters that intercept oil-shale flue dust are installed at power stations that still use the old technology of oil-shale pulverized combustion.

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1.2. Has your national government set a goal for reducing Co2 or other greenhouse gasses (GHG)?

- 1. On the level of the Law on Rate for Use of Natural Resources, there has been developed the system of rates of pollution charges that provide for the increase of charges for emission of CO2 and SO2, from 2006 till 2009, nearly twofold, thereat – in case the volume of emissions of polluting agents from stationary sources exceeds the pollution control standards – the payment rates shall increase from 5-10 up to 100 times.
- 2. In total, the rates for the recovery of damages caused by pollution (according to new terminology – pollution charges) have increased by 22...45 times starting from 1994 and up to 2009.
- 3. International meetings and advisory consultations between Lithuania, Latvia and Estonia are carried out concerning the construction of new nuclear energy plant designed to substitute the existing Ignalina Nuclear Power Plant, which must be shut down in 2009. The commissioning of new Nuclear Power Plant is possible, provisionally, in 2015.

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1.4. Does your basic policy and/or working plan have a goal rate of reduction of Co2 and/or GHG emissions?

- 1. Yes, we do.
- 2. The plans of Maardu Municipal Government include the objective to examine and to take an inventory of all sources of emissions of CO2, methane, oil products and certain hydrocarbons in order to adopt decision on possibility and feasibility to reduce emission of CO2 and other „greenhouse gases“ on the town territory.
- 3. Within the framework of the integrated programme of sustainable development of the town of Maardu „Maardu Agenda-21“ the plans of the municipal government make provisions for the following measures to be taken:
- 4. To determine the existing emissions, to draw up a balance of emissions of CO2, CO, methane, other „greenhouse gases“, dust, etc. in the region of the town of Maardu originating from the following main sources:
- 5. Iru Thermal Power Plant;

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1.3. Does your city have a basic policy and/or a working plan that contains global warming countermeasures?

- 1. The basic policy is legislated in the Law on Environmentally Sound Development, in the Law on Protection of Atmospheric Air, in the Law on Energy and in some other laws and amendments.
- 2. The basic policy of the town of Maardu has been developed and implemented within the framework of the governmental decision on complete cessation of activities of the phosphate-apatite mining and processing chemical complex Estonsfosforit that produced mineral fertilizers and other chemical products.
- 3. In the town of Maardu it is planned to develop, in the nearest future a programme and action plan to prevent global warming, in accordance with the actual requirements of the EU.

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