ENERGY COOPERATION BETWEEN THE EU, THE LITTORAL STATES OF THE BLACK & CASPIAN SEAS AND THEIR NEIGHBOURING COUNTRIES

PROGRAMME FUNDED BY THE EU

AD-HOC TECHNICAL ASSISTANCE PROJECT

AHEF No.	BY08

Project Title

GHG Projections for the Republic of Belarus to 2020 and 2050 and energy sector mitigation options

Country (s)	Belarus

Timescale for implementation	August – November 2010

Beneficiary(s)

Ministry of Natural Resources and Environmental Protection

Main and specific objectives

The **main objective** of this project is to support the Ministry of Natural Resources and Environmental Protection of the Republic of Belarus in the revision of the preliminary evaluation of GHG emission projections from fuel combustion for 2009-2020 and extend them up to 2050.

The **specific objectives** are (1) to collect necessary information and statistical energy and GHG emission data (2) to study baseline scenarios for GHG emissions in Belarus and examine future trends in GHG emissions (3) evaluate applicability of different GHG emission forecasting models for energy forecasting and analysing GHG mitigation scenarios up to 2050 and (4) to Identify and rank greenhouse gas abatement opportunities based upon greenhouse gas marginal abatement cost assessment of specific emission reductions opportunities in different sectors

Results achieved

The SEMISE team of experts in their study highlighted a number of possibilities for reducing energy consumption and thereby GHG emissions. For the electricity and heat generation system the main option to reduce GHG emission is to build nuclear power plant and introduce renewable energy sources. Even using natural gas as main energy sources for electricity and heat generation could allow only keeping GHG emission approximately at nowadays level. The overall potential for further deployment of renewable energy sources is however limited in Belarus, since the country has a relatively low potential for solar, geothermal, wind, and hydro-power. The most significant renewable energy resource is wood and other biomass sources (about 1000 MW technical potential). There is a significant potential in energy efficiency in the housing, industry and transport sectors which will significantly contribute to GHG reductions if utilized.

Useful information/ relevant documents

Information about the project may be obtained from the project manager of the Beneficiary, Ms. Ratnikova Hanna <climate.belarus@tut.by> or from the SEMISE office in Kiev.

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