



United Nations Economic Commission for Europe (UNECE)
Sustainable Energy Division, www.unece.org

UNECE REGIONAL ADVISORY SERVICES PROGRAMME
IN THE FIELD ENERGY DURING July 2005 -November 2007

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- **The forms and methods of operational activities undertaken vary according to the needs of the recipient countries and the sub-regions, but invariably involve a combination of the following: the preparation and implementation of specific programmes, both issue-oriented and sub-regional in nature; the preparation of project proposals for funding by international organizations and donor countries; the development and preparation of substantive studies with participating countries relating to policy issues and energy strategies**



- **5 sub-regional and 6 countries' oriented projects are being implemented now**
- **A programme of Energy Efficiency Investment Zones in Belarus, Kazakhstan, Russian Federation and Ukraine within the project “Energy Efficiency 21” has continued.**



Implementation of this project has to date leveraged significant investments: US\$ 7.3 million from the World Bank, GEF, the Government of Japan and local organizations in Belarus; US\$ 165,000 from a local organization in Kazakhstan, US\$ 5.2 million from GEF and local organizations in the Russian Federation; and US\$ 2.25 million from local organizations in Ukraine.



Phase “C” of the project “Biomass Energy for Heating and Hot-Water Supply in Belarus” commenced in September 2003 and will continue until 31 May 2008. The total cost of the project, in accordance with the project document, is US\$ 8,936,000 of which US\$ 3,129,000 has been provided by GEF as a grant for realization of the full project, US\$ 2,192,000 from the Belarus Government and US\$ 3,370,000 from local organizations. Investments by the Belarus Government and local organizations have already exceeded by 70 per cent those that were anticipated in the project document.



Since February 2005, the following project results have been achieved:

The third project demonstration site (Vileika Forestry Enterprise wood supply project) was put into operation in December 2006. The Revolving Fund for managing the US\$ 1,540,000 allocated by the GEF and an equivalent amount to be allocated by the Belarus Government in local currency was set up by its Committee on Energy Efficiency in November 2005.

The second project demonstration site (JSC Mostovdrev, superheated steam boiler with a capacity of 22 tonnes of steam per hour and 2.5 MW backpressure turbine) and the fourth project demonstration site (Vileika CHP, superheated steam boiler with capacity of 22 tonnes of steam per hour and 2,4 MW backpressure turbine) will be completed in December 2007.



As a result of implementation of phase “B” of the project “Removing Barriers to Energy efficiency Improvements in the State Sector in Belarus” a project brief and a project document for financing phase “C” of this project were elaborated and submitted to the GEF Secretariat in September 2005. In April 2006, the GEF approved the project proposal and the National Executing Agency “State Committee for Energy Efficiency and Control” received US\$ 1,400,000 as a grant for realization of this phase. The total cost of the project is US\$ 9,679,600, of which US\$ 3,150,000 will be provided by the Belarus Government and US\$ 5,119,600 by local organizations. The UNECE is a Cooperating Agency and will provide US\$ 100,000 “in kind” contribution for the implementation of this project.



Activity has started since 14 session of the Committee on Sustainable Energy

Project Working Group on Water and Energy Resources in Central Asia

At the request of a number of SPECA member countries, the Project Working Group “Energo” resumed its work in November 2005 under the umbrella of the reinvigorated SPECA II. These SPECA member countries expressed interest in continuing activities in the water sector and in expanding the scope of the SPECA work in the area of energy so that the latter would not be limited to hydro-power, but also address broader issues such as the possibility of creating common energy markets involving SPECA member countries and consideration of energy security matters in the Caspian Sea region



15-th session of Project Working Group (PWG) on water and energy resources took place in Bishkek, Kyrgyzstan, from 14 to 15 November 2007.

- PWG recommended conducting meeting of energy agencies leadership of CA countries in 2007 in order to develop a coordinate regional policy providing for the equitable and rational use of water and energy resources with due regard for the social, economic and environmental interest of the countries of the region.

- PWG noted with satisfaction publication of “Dam safety in Central Asia. Capacity building and regional cooperation” in Russia summarizing outcomes of Phase I of the same project. Participants PWG welcome the intent to continue the implementation of this project in 2008-2010 based on the results obtained within the frame of cooperation of Central-Asian countries.



Active cooperation with the Secretariat of the EurAsEC Integration Committee in the field of energy was started in 2006.

The Committee's members are Belarus, Kazakhstan, Kyrgyzstan, Russian Federation, Tajikistan and Uzbekistan. Cooperation has focused on efforts to facilitate implementation of a number of the key recommendations contained in the regional cooperation strategy to promote the rational and efficient use of water and energy resources in Central Asia. This strategy was elaborated within the framework of the UNECE/UNESCAP (project "Rational and efficient use of energy and water resources in Central Asia" that was implemented during the period 2000-2003.



EurAsEC High Level Energy Experts Group on Elaboration of Agreed Mechanism of Water-Energy Resources Management in the Amu Darya and Syr Darya Basins

It was created under EurAsEC to provide assistance to the Central Asian countries to establish a Water and Energy Consortium in the region. The recommendation for creating such a Consortium and its functioning stems from the work undertaken by the above-mentioned UNECE/UNESCAP project. The High-Level Group approved:

The model national law “On the safety of hydro-technical installations”.



The draft of the regional agreement on hydro-technical installations safety cooperation.

The final draft of the concept on the efficient use of water and energy resources in Central Asia with four amendments made by the delegations of Uzbekistan, Tajikistan and Kyrgyzstan. The document was then submitted to the Board of the Heads of Government and Heads of State in October 2007.



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Project “Capacity Building for Air Quality Management and the Application of Clean Coal Combustion Technologies in Central Asia”

The objective of the project is to strengthen the capacity of air quality management institutions in Central Asia to implement the UNECE Convention on Long-Range Transboundary Air Pollution and its protocols as well as to promote the application of appropriate clean coal combustion technologies for heat and power generation from solid fuels.



- Three Project Working Group meetings, to which all Central Asian countries nominated senior officials, were held in October 2005, July and November 2007.**
- Two training workshops, under Work Package 4, were organized in November 2006 and March 2007 to teach local experts how the new software could be used at the National informational-Analytical Centers to generate recommendations and air quality management decision-making in the energy sector.**



- Under Work Package 5, a seminar on “Economic, legal, environmental, institutional, and regulatory policy measures needed for deployment of appropriate, cost effective and commercially available clean coal technologies (CCTs)” was conducted in Almaty on 12-14 November 2005.
- A seminar focusing on “Appropriate pricing reforms regarding coal, heat, and electricity to facilitate investments for deployment of CCTs in the subregion in order to implement the UNECE Convention on Long-Range Transboundary Air Pollution” was conducted in Almaty on 4-6 July 2007 under Work Package 5.



- **Three training workshops, under Working Package 6, were organized in July, November 2006 and March 2007 on the development of business plans for energy efficiency projects for improved air quality management and deployment of appropriate clean coal combustion technologies for heat and power generation from solid fuels.**
- **As a result of this training programme, experts from Central Asian countries elaborated seven business plans. Two of them have been presented to international financial institutions in order to obtain financial support for their implementation.**



- More detailed information in English and Russian is available on the project website:

<http://www.unece.org/ie/capact>.

Evaluation:

- Mid-term evaluation of the project “Biomass energy for heating and hot-water supply in Belarus” was conducted by an independent UNDP consultant in February 2006. The consultant’s report is available from the UNDP Office in Belarus.

- Within the framework of the CAPACT project, seven business plans were elaborated by experts from the Central Asian countries. Two of the business plans have now been presented to international financial institutions in order to obtain financial support for their implementation. The projects seeking funding are:



- **“Modernization of Angrenskaya Thermal Power Station to increase coal combustion efficiency” and “Modernization of CHP (Bishkek) with introduction of a boiler with steam capacity of 420 tonnes per hour”.**
- **An external evaluation of the CAPACT project currently being undertaken by an independent consultant will be completed in October 2007.**
- **Two independent consultants conducted an external evaluation of the UNECE Regional Advisory Service Program in the field of energy in Belarus during the period October to**
- **December 2005. The final report is available on the UNECE website at:**
www.unece.org/operact/opera/eval.html.



Future work:

- (a) 2006-2009 phase of the “Energy Efficiency 21 Project”;**
- (b) Project “Energy and Water Resources in Central Asia”;**
- (c) Project “Implementation of regional (inter-state) program of rational and efficient use of fuel and energy resources in the CIS”**
- (d) Project “Biomass energy for heating and hot-water supply in Belarus”, phase “C”;**
- (e) Project “Removing barriers to energy efficiency improvements in the state sector in Belarus”, phase “C”;**
- (f) Project “Development of energy and water efficiency demonstration zones in the Republic of Kazakhstan”;**
- (g) Project “Wide utilization of new energy efficient technology “FISONIC” in municipal heat and hot water supply systems” in Belarus, Kazakhstan, Russian Federation and Ukraine.**



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Thank you for your attention