



**United Nations Economic Commission for Europe (UNECE)  
IREED Division, [www.unece.org](http://www.unece.org)**

**UNECE REGIONAL ADVISORY SERVICES PROGRAMME**

**IN THE FIELD ENERGY DURING 2003-2005**

**Mr. Evgeniy Nadezhdin  
UNECE Regional Adviser  
on Energy**

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- This report covers activities of the regional advisory services during the period from October 2003 to February 2005. The purpose of the Regional Advisory Programme on Energy is to provide advice and technical assistance, of an operational nature, to countries with economies in transition and, most notably, to the most disadvantaged of these. It also complements and reinforces the regular and extra budgetary programmes in energy.
- 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



### **Implemented projects of sub-regional nature:**

- **The second phase of the project “Energy Efficiency and Security in CIS” was completed in February 2004. As a result of this phase, a project “Implementation of regional (inter-state) programme of rational and efficient use of fuel and energy resources in CIS” was elaborated.**
- **Project “Rational and Efficient Use of Energy and Water Resources in Central Asia” was completed in December 2003. The major achievement of the project is the Cooperation Strategy to Promote the Rational and Efficient Use of Energy and Water Resources in Central Asia.**



- It was elaborated during the project implementation and approved by the Governments of Kazakhstan, Kyrgyzstan, Tajikistan and Uzbekistan. In May 2004 the Strategy was submitted to the Presidents of the Central Asian States for their consideration.

**Implemented countries' oriented projects:**

**Project “Feasibility Study on Opportunities for Belarus to Join the Kyoto Protocol under the UN Framework Convention on Climate Change (UNFCCC)” was completed in March 2004. The main conclusion of the project is that there are all grounds for Belarus to join the Kyoto Protocol in 2004.**



The project “Capacity Building to Reduce Key Barriers to Energy Efficiency in Russian Residential Building and Heat Supply (city of Vladimir)” was completed in December 2004.

The project “Low Cost Energy Saving Measures in Russian Educational Sector” was completed last year.

A first phase of the full size project “Climate Change Mitigation in Ukraine through Energy Efficiency in Municipal District Heating (Pilot Project in the city of Rivne)” was completed last year.



## Projects of sub-regional nature that are being implemented:

- Project of the “Energy Efficiency 21”, 2003-2006 phase
- Project “Capacity Building for Air Quality Management and the Application of Clean Coal Combustion Technologies in Central Asia”.
- Project “Implementation of regional (inter-state) programme of rational and efficient use of fuel and energy resources in CIS”. The final version of the project was approved by the CIS Economic Board on the 11<sup>th</sup> of March 2005.

Project “Wide utilisation of new energy efficient technology “FISONIC” in municipal heat and hot supply systems” in Belarus, Kazakhstan, Russian Federation and Ukraine



### Countries' oriented projects that are being implemented:

Phase "C" of the project "Biomass Energy for Heating and Hot Water Supply in Belarus" was started in September 2003. The total cost of the project is US \$ 8,936,000

Phase "B" of the project "Removing Barriers to Energy Efficiency Improvements in the State Sector in Belarus". The total cost of the project is US \$ 4,400,000.

Phase 2 of the joint Belarus/Russian Project on obtaining additional electricity at the thermal power plant (Lukoml thermal power station) from the utilisation of natural gas let-down pressure.



Project “Development of Energy and Water Efficiency Demonstration Zones in the Republics of Kazakhstan and Kyrgyzstan”

**Projects the implementation of which will start in 2006:**

Project “Developing Capacities and Removing Barriers to Financing Energy efficiency Investments for Climate Change Mitigation”. Participating countries: Belarus, Bulgaria, Kazakhstan, the Former Yugoslav Republic of Macedonia, Romania, Russian Federation, Serbia and Montenegro, Ukraine



Project “Support and Development of Renewable Sources of Energy (Biomass)” in Ukraine

Project “Removing Barriers to Energy Efficiency in Municipal Heat and Hot Water Supply in Kazakhstan, phase “C”

Project “Russian Renewable Energy Programme”



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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.



**The application of appropriate clean coal combustion technologies for heat and power generation from solid fuels will be achieved through sub-regional networking and information dissemination via an Internet/Intranet system and promotion of the application of low cost, fast payback methods for improving the energy efficiency and environmental performance of solid fuel combustion technologies. In addition, clean coal technology deployment will be facilitated through the provision of assistance with sustainable energy policy and energy pricing reforms as well as through the promotion of investment project finance.**



**In order to attain the project goals and objectives, the project activities have been divided into six main Work Packages (WP). WP4, WP5 and WP6 refer specifically to energy/coal-related activities. The implementation of the project is a little bit behind the project schedule. The following activities were realised in the period under review:**

- ⑩ The Project has been given the acronym “CAPACT” in order to facilitate its recognition and identification.**



- ⑩ A dedicated Project Website has also been developed in both English and Russian languages and is available at: <http://www.unece.org/ie/capact>. This site is regularly updated with project information and also provides details of forthcoming events and Project Working Group meetings
- ⑩ A Project Working Group, to which all Central Asian countries have been invited to nominate senior officials, has been established to oversee the Project.
- The first meeting of this Project Working Group, which was held in Almaty on 10 November 2004, highlighted the importance and potential for future effective policy making in the joint work and dialogue between environmental and energy experts/officials in the region.



- ⑩ Under Work Package 5, a seminar on “Utilisation of Various Cost-Effective Clean Coal Technologies Options with High Efficiency and Environmental Performance Capable of Using Locally Available Coal whilst Meeting Environmental Protection Standards and Regulations, including the Convention on Long-range Transboundary Air Pollution” was conducted in Almaty in November 2004.
- ⑩ A CD-ROM containing all the reports and presentations provided during the seminar was produced.



- ⑩ An Analytical Review on the “Technical and Economic Status of Cost-Effective Clean Coal Technology Options and Prospects for their Implementation in Central Asia” was prepared. This Review comprises three sections that were all prepared separately, notably: (i) Pre-Combustion Phase; (ii) Combustion Phase; and (iii) Post-Combustion Phase.
- ⑩ The Review will be finalized following receipt of comments by the National Coordinators and will be published in 2005 as a formal UNECE Publication available in both English and Russian languages.



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**Second seminar “Economic, Legal, Environmental,  
Institutional, and Regulatory Policy Measures  
Supported by Appropriate Energy Pricing Reforms  
Needed for Deployment of Appropriate, Cost  
Effective and Commercially Available CCTs”.**

**Second meeting of the Project Working Group and the  
seminar will be held from 12 to 14 October 2005 in  
Almaty, Kazakhstan.**



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Thank you for attention