



## **REPORT**

### **UN Special Program for the Economies of Central Asia (SPECA) 15th session of the Project Working Group on Water and Energy Resources Bishkek, Kyrgyzstan, November 14-15, 2007**

#### **A. ORGANIZATION OF THE MEETING**

1. The 15th session of Project Working Group (PWG) on Water and Energy Resources took place in Bishkek, Kyrgyzstan, on 14 and 15 November 2007. The meeting was organized by the UN Economic Commission for Europe (UNECE) and the UN Economic and Social Commission for Asia and the Pacific (UNESCAP).
2. 44 participants took part in PWG session, including delegations from Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan and the Russian Federation. Representatives from UNDP, World Bank, Eurasian Bank of Development, EurAsEC, Swiss Development Cooperation Agency, UNESCO, USAID, the Executive Committee of IFAS, SIC ICWC, International Association of Hydrologists also participated in the meeting. The list of participants is attached (Annex 1).
3. Mr. Baratali Koshmatov, Director General, Department of Water Resources under the Ministry of Agriculture, Water Resources and Processing Industry (MAWR&PI) of the Kyrgyz Republic, Mr. Amirkhan Kenshimov, Deputy Chairman of the Committee on Water Resources under the Ministry of Agriculture of the Republic of Kazakhstan; Mr. Anatoly Kholmatov, Technical Director, EC IFAS (Tajikistan); Mr. Kurbangeldy Ballyev, representative of Turkmenistan and Mr. Timur Kamalov, Chairman of the State Water Technology Inspectorate “Gosvodtechnadzor” of the Republic of Uzbekistan chaired the session.
4. Participants approved the following agenda:
  1. Opening of the session.
  2. Selection of officials.
  3. Adoption of the agenda.
  4. Review of implementation of the Work Plan in 2006-2007.
  5. Review of the implementation of the cooperation strategy on the rational use of water and energy resources in Central Asia.

6. Interaction and cooperation with other international programmes and initiatives on water and energy resources in SPECA Member Countries.
  7. Review of the decisions of the second session of the SPECA Governing Council.
  8. Planning of dam safety activities in 2008-2010.
  9. Discussion and development of the Work Plan for 2008-2009.
  10. Other matters.
  11. Adoption of conclusions and recommendations.
5. The Programme of the 15th session of the Project Working Group on Water and Energy resources is attached (annex 2).

## **B. CONCLUSIONS AND RECOMMENDATIONS**

1. Participants approved the following conclusions and presented the following recommendations for consideration by the SPECA Coordinating Committee and the SPECA Governing Council:

### **Agenda item 4: Review of the implementation of the Work Plan in 2006-2007.**

2. Having heard the reports of the Director General of the Department of Water Resources of Kyrgyzstan and Deputy Chairman of the Committee on Water Resources under the Ministry of Agriculture of the Republic of Kazakhstan on the development of cooperation between Kazakhstan and Kyrgyzstan on the use of water resources of the Chu and Talas rivers, the PWG emphasized that it is a model example of cooperation: (a) between countries on the use of transboundary rivers' resources; (b) between international organizations to support efforts enabling cooperation in this area. Participants of the PWG considered that the experience of the establishment of the Commission for the Chu and Talas rivers may be useful for the establishment of such commissions for other river basins in Central Asia. PWG welcomed further efforts to promote cooperation in this and other basins by the UNECE as well as by other international organizations.
3. The PWG welcomed the wish of UNESCO and the International Association of Hydrologists to participate in the implementation of the UNECE project components on the assessment of correlation of surface and ground waters of Chu and Talas rivers in a transboundary context.
4. The PWG noted with satisfaction the publication of the document "Dam safety in Central Asia: Capacity building and regional cooperation" in Russian, summarizing outcomes of Phase I of this project. Participants of the PWG welcomed the intention

to continue the implementation of this project in 2008-2010 based on the results obtained within the framework of cooperation of the Central Asian countries.

5. The PWG took note of the fact that the EurAsEC Inter-parliamentary Assembly is considering the draft model law on dam safety in Central Asia that has been developed within the framework of SPECA.
6. The PWG noted that the Council on Energy Policy under the Integration Committee of EurAsEC approved the draft Agreement on cooperation on dam safety in Central Asia (Minsk, April, 2007) and this draft was going to be presented for consideration by the High-level Group on Water-energy Issues of EurAsEC, which will take place in late November 2007.
7. Participants of the PWG took note of the information provided by the Representative of the Scientific-information Center of the Interstate Committee on Water Coordination (SIC ICWC) on the project “Central-Asian Regional Water Information Base (CAREWIB)” – one of the priorities of the working program of SPECA PWG on water and energy resources.
8. Participants of the PWG took note of the information on the project “Capacity building to manage air quality and use of environment friendly technologies of coal burning in Central Asia” (CAPACT).
9. Participants of the PWG took note of the information on the pilot project EIA in transboundary context between Kazakhstan and Kyrgyzstan.
10. All reports that were made on item 4 of the agenda concluded that the work plan for 2006-2007 had overall been implemented.

**Agenda item 5: Review of the implementation of the Cooperation strategy on the rational and efficient use of water and energy resources in Central Asia.**

11. The PWG noted with satisfaction that the Cooperation Strategy on the rational and efficient use of water and energy resources in Central Asia, approved in 2003, is a comprehensive basis for mutually beneficial international cooperation and again confirmed its principles and objectives, which are the development of coordinated regional policy stipulating equal and rational use of water and energy resources with due observance of social, economic and environmental interests of the countries of the region. It also noted that further implementation of this strategy can be done through a number of concrete projects, a list of which was considered during the PWG session (agenda item 9).
12. The PWG noted the results of the Workshop on Energy for Sustainable Development in Central Asia: Coordinated Energy System of SPECA and the Baku Initiative on Energy Efficiency and Energy Conservation that took place in Bishkek, Kyrgyzstan, from 12 to 14 November 2007. Conclusions and recommendation of the Workshop are attached to this document in Annex 3.

**Agenda item 6: Interaction and cooperation with other international programs and initiatives on water and energy resources in SPECA member countries.**

- 13 The PWG expressed its appreciation for the presentations by the international organizations that participated in the session, including the Eurasian Development Bank, EurAsEC, UNDP, the International Organization of Hydrologists and other organizations on their activities and initiatives, relating to the development and management of water and energy resources. The PWG expressed its appreciation of their proposals to cooperate with SPECA.
- 14 The PWG took note of the request to attract international experts for further work on the project “Concepts of effective use of water and energy resources in Central-Asian region” made by the EurAsEC representative. The PWG concluded that the Chairman could approach the UNECE Executive Secretary on this matter.
- 15 Based on the proposal by EurAsEC, the PWG requested the UNECE to inform the Council on Energy Policy under the EurAsEC Executive Committee on the Programme of Energy Conservation for Central Asia, developed by the UNECE.
- 16 The PWG took note of, and supported the intent of the European Union to implement the program of the 2007-2013 Strategy for Central Asia.

**Agenda item 7: Review of the decisions of the second session of the SPECA Coordinating Committee.**

17. The PWG recommended conducting a meeting of the Heads of energy agencies in Central Asian countries in 2007 in order to ensure the guaranteed fulfillment of obligations concerning their participation in the implementation of the following projects: (a) Coordinated energy system of SPECA; (b) Baku Initiative on Energy Efficiency and Energy Conservation. The PWG noted that the meeting on the indicated topic had not taken place due to the lack of funding. The PWG recommended conducting the above-mentioned meeting in March-April 2008 and proposed to include energy efficiency and energy conservation for Central Asian countries in the agenda of this meeting.

**Agenda item 8: Planning of dam safety activities in 2008-2010.**

18. The PWG approved the Action Plan on dam safety in Central Asia for 2008 proposed for consideration. The Action Plan is presented in Annex 4.

**Agenda item 9: Discussion and development of the work plan for 2008-2009.**

19. Participants of the PWG adopted the proposed work plan for 2008-2009. The Program is attached to this document as Annex 5.
20. Participants of the PWG noted with satisfaction the intention of the Russian Federation to make a grant available to support the operational activities of the UNECE.

**Agenda item 10: Other matters**

21. Participants of the PWG proposed to conduct the next session of the SPECA Project Working Group on water and energy resources in the autumn of 2008.
22. The PWG expressed its appreciation to the Government of the Kyrgyz Republic, as well as to the Institute “Vodavtomatika & Metrology” for the successful organization of the PWG session.

**Agenda item 11: Adoption of conclusions and recommendations.**

23. The PWG adopted its report on November 15, 2007.

**Mr. Baratali Koshmatov,**

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Bishkek, November 15, 2007

ANNEX 1

**LIST OF PARTICIPANTS**  
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**Bishkek, Kyrgyzstan, 14-15 November 2007**

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**Бишкек, Кыргызстан, 14-15 ноября 2007 года**

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41.	<b>Mr. Erkimbek Kuishabaev</b> Advisor of Energy Policy Department Secretariat IC EURASEC	<b>Куйшабаев Эркимбек Джамалдинович</b> Советник Департамента по энергетической политике и экологическим вопросам Секретариата ИК ЕврАзЭС	Tel: (3272) 272 20 05 272-61-81 E-mail: <a href="mailto:erkimbek@ok.kz">erkimbek@ok.kz</a>
	<b>INTERNATIONAL FUND FOR SAVING THE ARAL SEA</b>	<b>МЕЖДУНАРОДНЫЙ ФОНД СПАСЕНИЯ АРАЛА</b>	
42.	<b>Mr. Anatoly Holmatov</b> Technical Director Executive Committee	<b>Холматов Анатолий Пулатович</b> Технический директор Исполкома МФСА	Tel. (+992 372) 235836 Fax. (+992 372) 235840 E-mail: <a href="mailto:ecifas@tajik.net">ecifas@tajik.net</a>
43.	<b>Mr. Almabek Nurushev</b> Director, Executive Board IFAS in Kazakhstan	<b>Нурушев Алмабек Нурушевич</b> Директор Исполнительной дирекции МФСА в Казахстане	Tel. (+7 3272) 501990 Fax. (+7 3272) 507717 mob. (+7 701) 7138219 E-mail: <a href="mailto:mospanov@mail.kz">mospanov@mail.kz</a> ; <a href="mailto:mospanov@inbox.ru">mospanov@inbox.ru</a>
	<b>INTERNATIONAL ASSOCIATION OF HYDROGEOLOGISTS</b>	<b>МЕЖДУНАРОДНАЯ АССОЦИАЦИЯ ГИДРОГЕОЛОГОВ</b>	
44.	<b>Mr. Shammy Puri</b> Chair International Commission on Transboundary Aquifer Resources Management	<b>Шамми Пури</b> Председатель Международной комиссии по управлению трансграничными подземными водами	Tel (+ 44 777) 5511097 E-mail: <a href="mailto:ShammyPuri@aol.com">ShammyPuri@aol.com</a>

ANNEX 2

**UN Special program for economies of Central Asia (SPECA)  
15-th session of Project Working Group on water and energy resources  
Bishkek, Kyrgyzstan, November 14-15, 2007**

**PROGRAM**

**Wednesday, November 14, 2007**

- 10.00 – 10.30 Registration of participants
- 10.30 – 10.50 **Opening session. (Mr. B.T. Koshmatov, Director General, Department of water resources, Kyrgyzstan; Co-Chairman of Project Working Group on water and energy resources)**
- Speech of welcome on behalf of UN ECE  
*Mr Evgeniy Nadezhdin, Regional Adviser, Economic Commission for Europe*
- Speech of welcome on behalf of UN ESCAP  
*Mr Pranesh Chandra Saha, Chief Energy Resources Section, Environment and Sustainable Development Division, ESCAP*
- 10:50 - 11.00 Introduction of session program and adoption of agenda. *Mr. Bo Libert, Regional Adviser, UN Economic Commission for Europe*
- Session 1. Review of work plan implementation in 2006-2007.**
- 11.00 -11.10 Development of cooperation between Kazakhstan and Kyrgyzstan on using water resources of Chui and Talas rivers. *Mr. A K. Kenshimov, Deputy Chairman of water resources committee, Kazakhstan; Mr. B.T. Koshmatov, Director General, Department of water resources, Kyrgyzstan.*
- 11.10-11.20 Project “Central Asian regional water information base (CAREWIB)”. *Mr. V.V. Khegai, SRC ICWC*
- 11.20-11.30 Dam safety in Central Asia. Capacity building and regional cooperation. *Mr. T.K.Kamalov, “Gosvodkhoznadzor”, Chairman, Uzbekistan*
- 11.30-11.40 Project “Capacity building to manage air quality and use of environment friendly technologies of coal burning in Central Asia (CAPACT)”. *Mr. Bo Libert, Regional Adviser, UN Economic Commission for Europe; Mr Evgeniy Nadezhdin, Regional Adviser, Un Economic Commission for Europe*

- 11.40-11.50 EIA in transboundary context. Mr. K. Noruzbaev, *State agency on environment protection, Kyrgyzstan*
- 11.50-12.00 Enhancing of energy efficiency by means of increasing investments to observe UN environmental conventions, and in particular on climate change. Mr Evgeniy Nadezhdin, *Regional Adviser, UN Economic Commission for Europe*
- 12.00-12.10 Development of feasibility study on establishment of international water energy consortium in Central Asia, including relevant aspects of transboundary exchange of power. Mr Evgeniy Nadezhdin, *Regional Adviser, UN Economic Commission for Europe*; Mr. V.V. Khagai, *SIC ICWC; representative of EurAsEC*.
- 12.10-12.30 Energy for sustainable development. UN ESCAP activity. Mr. Kohji Iwakami, *UN ESCAP*
- PARTICIPANTS PHOTO
- 12.30-13.30 Lunch
- Session 2. Review of the implementation of cooperation development strategy on rational use of water and energy resources in Central Asia.
- 13.30-13.50 Implementation of regional strategy SPECA. Mr. A.P. Kholmatov, *IC IFAS*; Mr. G.N. Petrov, *Tajikistan*.
- 13.50-14.00 State and problems of joint use of water and energy resources of Syrdarya river basin. Mr. A.G.Zyryanov, *Kyrgyzstan*.
- 14.00-14.20 On energy conservation program for Central Asia. Mr. Zenyutich, *Russia*.
- 14.20-15.30 Discussion
- 15.30-16.00 Coffee break
- 16.00–16.15 Interaction and cooperation with other international programs and initiatives on water and energy resources in SPECA member countries. Mr. Erkimbek Kuishabaev, Mr. Alexander Mironenkov, *EurAsEC ; ADB representative*.
- 16.15-16.30 Water management improvement project in the Kyrgyz Republic. Mr. A. N. Krutov, *Team leader, World Bank project component*
- 16.30-17.00 Review of relevant decisions of the second session of SPECA Steering Committee. Mr Evgeniy Nadezhdin, *Regional Adviser, UN Economic Commission for Europe*
- 17.00-18.00 Discussion

**Thursday, November 15 ноября, 2007**

**Session 3. Dam safety in Central Asia**

- 9.30-9.45 Outcomes and prospects of project implementation on dam safety in Central Asia. Mr. Bu Libert, *Regional Adviser, Economic Commission for Europe*
- 9.45-10.45 Harmonization of national legislations and prospects of cooperation development on

ensuring of hydro engineering structures safety

*Mr. Kenshimov A.K., Kazakhstan*

*Mr. Zyryanov A.G., Kyrgyzstan*

*Mr. Kholmatov A.P., Tajikistan*

*Mr. Ballyev K.B., Turkmenistan*

*Mr. Kamalov T.K., Uzbekistan*

- 10.45–11.00 Discussion
- 11.00–11.30 Coffee break
- 11.30–12.00 Planning of dam safety activities in 2008-2010. *Moderator - Mr. Bo Libert, Regional Adviser, UN Economic Commission for Europe*
- 12.00–12.30 Discussion
- 12.30–13.30 Lunch
- Session 4. Discussion and development of work plan for 2008-2009**
- 13.30–14.00 Working program draft presentation. *Mr. Bo Libert, Mr Evgeniy Nadezhdin, Regional Adviser, UN Economic Commission for Europe; Mr. Kohji Iwakami, UN ESCAP*
- 14.00–14.30 Discussion
- 14.30–15.00 On possible funding of projects from Russian funds under UN ECE and UN ESCAP. *Mr Evgeniy Nadezhdin, Regional Adviser, UN Economic Commission for Europe; Mr. Kohji Iwakami, UN ESCAP*
- 15.00–15.30 Discussion
- 15.30–16.00 Coffee break
- Session 5. Adoption of conclusions and recommendations**
- 16.00–17.00 Discussion
- 17.00–18.00 Adoption of session recommendations. Session closing

**Workshop on Energy for Sustainable Development in Central Asia:  
Developing Strategies for the Coordinated SPECA Energy System and the Baku  
Initiative on Energy Efficiency**

12-14 November 2007, Bishkek, Kyrgyzstan

**REPORT**

**I. Background and Organization**

1. The Workshop on Energy for Sustainable Development in Central Asia: Developing Strategies for the Coordinated SPECA Energy System and the Baku Initiative on Energy Efficiency was held in Bishkek, Kyrgyzstan from 12 to 14 November 2007. The Workshop was organized by the United Nations Economic and Social Commission for Asia and the Pacific (UNESCAP), and the Economic Commission for Europe (UNECE) in collaboration with the collaboration with the Institute “Vodavtomatika and Metrologiya”.
2. The Workshop was participated by 24 participants comprising Government officials, specialists and experts from Kyrgyzstan, Tajikistan and Uzbekistan as well as representatives of the UNDP (Kyrgyzstan) and an observer from the Russian Federation.
3. The Workshop was opened by Mr Alamaz Biibosunov, Head of Department, Ministry of Industry, Energy and Fuel Resources, Kyrgyzstan, followed by a welcoming statement from Mr Pranesh Chandra Saha, Chief, Energy Resources Section, Environment and Sustainable Development Division of UNESCAP.

**II. Conclusions and Recommendations**

**Strategic Planning and Management (SPM)**

The participants of the Workshop made the following conclusions and recommendations for consideration of the Project Working Group (PWG) on Water and Energy Resources:

4. “Strategic Planning and Management” (SPM) was recognized as a useful tool to strengthen the energy planning process including the sustainability.
5. During the Workshop, the participants used SPM as a tool to analyze two project proposals earlier endorsed by the PWG and the SPECA Coordinating Committee, i.e., (a) Coordinated SPECA Energy System; and (b) Baku Initiative on Energy Efficiency and Conservation. The participants also discussed relevance of energy security and sustainable development within the framework of Central Asia.
6. Some SPECA countries are also applying some components of the SPM in their planning. However, the participants expressed the need to further strengthen the national capacity to take advantage of SPM fully. They also stressed that such tool might be adapted to the national conditions. The status of how SPM application in each country is summarized in annex I.

### **Energy Security and Sustainable Development**

7. Noting that political commitments from the highest level are important to resolve some of the transboundary issues, the participants recognized that there is a need towards building a common ground for a high-level dialogue with a view to enhance energy security and move towards sustainable development at the sub-regional level in SPECA.
8. The participants identified the following areas as major challenges towards enhancing energy security and sustainable development.
  - a. River basin management: reaching consensus between water demand for irrigation and electricity production;
  - b. Development of a common energy market through creation of an energy pool in order to ensure optimal development and utilization of all forms of energy resources, including fossil fuel, hydro and other renewable resources in the region;
  - c. Improving energy and water diplomacy;
  - d. Ensuring implementation of energy efficiency and measures;
  - e. Integrated approach in resolving environmental concerns, including climate change, relevant to the energy sector.
  - f. Creating an enabling condition for renewable energy development and in widening access to energy services in rural areas.
9. Using the SPM approach, the participants analysed two project proposals to identify the benefits, activities, as well as risks to implement the projects as noted below:

#### **A. Coordinated SPECA Energy System**

10. The participants noted that balanced development of infrastructure and distribution of energy resources will be vital to ensure energy security and sustainable development in Central Asia. Recognizing the abundant energy availability in Central Asia, the participants further noted that there is a good potential for developing a common energy market and for exporting energy resources to Europe and Asia. However, they mentioned that a step-by-step approach should be taken towards developing a common market.

**Benefits:** A Coordinated SPECA Energy System could:

- (a) bring higher level of balanced utilization of water and energy resources in Central Asia;
- (b) enhance energy security;
- (c) enhance efficiency in the generation and utilization of electricity.

**Activities:** Activities could include:

- (a) implementation of measures towards the development of a common energy market step-by-step;
- (b) development and implementation of joint projects;
- (c) unification and harmonization of legislation.

**Threats:** Possible threats could be:

- (a) political instability in the region;
- (b) different levels of economic development;
- (c) difference in the structure of electricity generation;
- (d) lack of qualified human resources.
- (e) deteriorating environment (GHG emissions and pollutants from the energy sector);

## **B. Baku Initiative on Energy Efficiency and Conservation**

11. Under this initiative, the participants recognized that many countries have some policies to promote energy efficiency. However, they noted that the progress of such implementation was not visible. They further noted that energy price would be a key factor in promoting energy efficiency.

**Benefits:** Baku Initiative on Energy Efficiency and Conservation could:

- (a) reduce energy consumption, which could be exported to in order to increase national budget;
- (b) contribute towards the resolution of social issues related to energy supply;
- (c) increase volume of energy export as well as increased competitiveness by lowering the energy intensity of the economy.

**Activities:** Activities may include:

- (a) programmes to support adoption of legal framework to promote energy efficiency;
- (b) investment promotion activities including mobilization of financial resources for energy efficiency;
- (c) creation of a joint body to monitor the implementation of energy efficiency.

**Threats:** Existing and possible threats are:

- (a) low prices of energy resources;
- (b) rapid population growth exerting pressure on energy demand in the future;
- (c) inadequate legislative base;
- (d) insufficient commercialization.

## **Potential role of Central Asia towards enhancing energy security and sustainable development**

12. In moving forward with the initiatives, the participants noted that it would be necessary to have agreements, institutional or coordination mechanism, political support and commitment, funding and implementation to further enhance collaboration to create a common energy market.
13. In addressing the challenges towards enhancing energy security and sustainable development, the participants recognized the need for (a) setting up criteria, principles and indicators for energy security, (b) reducing dependency on oil and gas through development of hydro and other alternative energy resources including renewable energy; (c) undertaking joint development and management of projects; (d) promoting CDM and carbon trading.
14. In order to ensure that regional energy cooperation projects support national efforts, the participants considered it essential to (a) have national policy to include transboundary energy cooperation; (b) strengthen integration process among the countries; (c) ensure training of qualified human resources and the required funding; (d) actively participate in regional policy formulation and implementation.
15. In mobilizing financial resources, the participants noted the need for developing partnerships in various forms, such as, investment consortiums, public-private partnership, management partnership, joint ownership for parallel(independent) or joint operation, infrastructure development funds (using oil dividend). The participants recognized that identification of stakeholders and involving them as partners in projects would be essential (Foreign Direct Investment, International Financing Institutions, private or business community).
16. As various initiatives are undertaken in Central Asia on energy security and sustainable development in many forms, it would be essential to synergize national level activities to regional level activities by (a) linking it with national projects and programme; (b) encouraging development partners to cooperate and collaborate with regional projects; (c) institutionalizing national level coordination among key stakeholders, (d) encouraging synergies among the agencies dealing with different international initiatives; (e) influencing international initiative to cooperation and collaborate; (f) discussing common issues at the SPECA forums: meetings of PWG, Coordinating Committee and the Governing Council. These measures would lead to avoid duplication.
17. In further pursuing the development of the proposals the participants:
  - a. Stressed the importance of supporting collaboration among on-going activities including those by SPECA, EurAsEC, Shanghai Cooperation Organization (SCO), CAREC, etc. to avoid duplication and encourage complementarities;
  - b. Noted that a common energy market is a long-term goal, which will need stakeholders to be involved and could be achieved gradually building on bi- and multi-lateral cooperation.
  - c. Renewable energy plays an important role in Central Asia and it should be reflected in all initiatives.

- d. Emphasized on exploring and identifying financing schemes for large scale hydro power plants, which could contribute towards the development of the concerned countries as well as to supply electricity to neighbouring energy systems.
- e. Expressed the need for sharing information and experiences on energy security and sustainable development among the Central Asian Countries through journals, websites and other media.

### **III. Acknowledgement**

18. The participants expressed its appreciation to the Government of Kyrgyzstan and the host organization, the Institute “Vodavtomatika and Metrologiya” for successfully organizing the Workshop.

### **IV. Adoption of the Report**

19. The Workshop adopted its report on 14 November 2007.

#### **Annex I**

#### **Application of SPM in Kyrgyzstan, Tajikistan and Uzbekistan**

##### **Kyrgyzstan**

Following the instruction of the Government of Kyrgyzstan the project “National Energy Programme for 2007-2010 and development strategy of fuel and energy complex” has been developed, based on the elements of SPM. Under this project, the objectives, priorities and targets are identified for short and long-term perspectives. The driving forces (economic and demographic growth, economic and social problems, scenarios built using the estimations and analyses of demand for energy) have been applied.

As a baseline, the analysis of development of the fuel and energy complex for 1990-2006 has been done and the results of the reforms have been used. The project “National Energy Programme for 2007-2010 and development strategy of fuel and energy complex” has been agreed by all stakeholders (all interested ministries and agencies) and at present time it is being implemented according to the Plan of Action, 2007-2010. The monitoring and the assessment of progress are being made by the Ministry of industry, energy and fuel resources. Based on the agreements the other agencies will be involved.

##### **Tajikistan**

Sustainable development is identified as a state priority for Tajikistan but implementation of sustainable development is difficult due to weak economic growth. Energy security is a priority as contained in the approved National Development Strategy. The Strategy is based on development of hydro energy system, construction of new large hydro power plants. Long-term planning for the energy complex development up to 2015 exists, which takes into consideration poverty reduction strategies. The priority for the energy complex development is on hydropower development. One of the main challenges is an interconnection of electricity with neighbouring countries.

Three main challenges on energy security and sustainable development of Central Asia:

1. Conflict of interests between irrigation and hydro energy;
2. Weakness of the main market of energy resources;
3. The structure of energy resources of Tajikistan is dominated by 95% of hydro resources.

## **Uzbekistan**

The Energy Strategy covering up to 2010 is being implemented. The main directions had been identified in 1995. Since then there were some decisions taken and some programmes had been considered depending on the results of the evaluation of the implementation. Recently, in Uzbekistan the programmes of development and modernization of electric power system, oil, gas and fuel industry for the period of 2007-2011, has been approved. At this stage, there is a need to develop long-term vision for the period of 2025-2030.

In Uzbekistan, all elements of SPM are taken into account in the developing the mid- and long-term programmes of development of energy: estimation of driving forces, using the scenario plan; formulation of the strategy, management of plan of action, monitoring and estimation of progress of implementation. During the development of strategy of energy sector of economy and identification of the elements of SPM – energy security and sustainable development are considered as basic factors of development of the country. Solving of problems of enhancing of efficiency of fuel and energy resources, solving of the conflict between irrigation and hydro energy are considered as priorities towards the energy security and sustainable development of Central Asia.

## ANNEX 4

### **Preliminary action plan for 2008 within the frame of the project on the development of cooperation on dam safety in Central Asia**

#### First group of meetings

March 12-13, 2008, Tashkent, Uzbekistan

Regional meeting on cooperation in the field of dam safety in Central Asia

Receiving organization: “Gosvodtechnadzor”

March 13, 2008, Tashkent, Uzbekistan

Working Group meeting on the development of the regional agreement on cooperation in the field of hydro structures’ safety in Central Asia (within the frame of regional meeting)

March 13, 2008, Tashkent, Uzbekistan

Working Group meeting on harmonizing legislative base and technical normative documents in the field of dam safety in Central-Asian countries (within the frame of regional meeting)

March 14, 2008, Tashkent, Uzbekistan

National meeting on cooperation in the field of dam safety in Central Asia

Receiving organization: “Gosvodtechnadzor”

#### Second group of meetings

May 22-23, 2008, Ashgabat, Turkmenistan

National meeting on cooperation in the field of dam safety in Central Asia

Receiving organization: Минводхоз в сотрудничестве с НИЦ МКУР МФСА

May 26-27, 2008, Dushanbe, Tajikistan

National meeting on cooperation in the field of dam safety in Central Asia

Receiving organization: Ministry of water resources in cooperation with “Barki Tochik”

#### Third group of meetings

September 11-12, 2008, Bishkek, Kyrgyzstan

National meeting on cooperation in the field of dam safety in Central Asia

Receiving organization: Department of water resources in cooperation with JSC “Electrical stations”

September 15-16, 2008, Almaty (or Astana), Kazakhstan  
National meeting on cooperation in the field of dam safety in Central Asia  
Receiving organization: Department of water resources (RVR) in cooperation with MES

#### Fourth group of meetings

November 2008, 2 days  
Regional meeting on outcomes of project implementation on the development of cooperation in the field of dam safety in Central Asia  
(Will start the following day after regular session of SPECA PWG Energy/water)  
Receiving organization: ?

November 2008, 0.5 day  
Working Group meeting on the development of regional agreement in the field of hydro structures' safety in Central Asia (within the frame of regional meeting)

November 2008, 0.5 day  
Working Group meeting on harmonizing legislative base and technical normative documents in the field of dam safety in Central-Asian countries (within the frame of regional meeting)

#### **ANNEX 4a**

##### **Possible matters for consideration**

##### **Of the Working Group on co-ordination of the legislation and harmonizing of technical normative documentation with regard to dam safety in Central-Asian countries**

##### ***A. Harmonizing of technical normative documentation on safe operation of the dams and other hydro structures***

1. Facilitating on achieving uniformity and possible unification of the key technical documents relating to safe dam and other hydro structures operation on transboundary rivers, including the following documents:

- a. Operation rules for hydro structures and reservoirs taking into account:
  - Compliance of design parameters and actual parameters;
  - Condition of water discharge structures and mechanical equipment and their compliance with the rules;
  - Compliance of reservoir operational regimes with existing operation rules;
  - Flood discharge;
  - Winter discharge regimes for reservoirs;
  - Scheme of regulation and use of river runoff;
  - Environmental requirements;
  - Silting condition of the reservoir and ways to maintain effective storage volume;
  - Zones of possible flooding during emergency situations;
  - State of notification scheme and interaction during emergency situations;

As a result, proposals on safe operation will be prepared, along with the draft Operation rules for hydro structures on transboundary rivers.

- b. Monitoring guidelines for hydro structures, taking into account:
- Hydro structure's classification;
  - Types of natural observations, periodicity;
  - Condition of observation system;
  - Efficiency of data processing, communication and evaluation;
  - Scope and procedures for data sharing;
  - Proposals to improve monitoring.

As a result, draft Monitoring guidelines will be developed for hydro structures on transboundary rivers.

- c. Typical survey program, taking into account:
- Equipment of hydro structures with control devices;
  - Organization of hydro structures surveillance;
  - Condition of hydro structures;
  - Implementation of measures on repair and reconstruction;
  - Condition of technical documents;
  - Implementation of measures to enable reliability and safety of hydro structures.

The draft Provision on participatory survey of hydro structures on transboundary rivers defining composition and responsibilities of panel members will be developed.

It is possible to develop intergovernmental agreement to achieve uniformity and unification of key technical documents relating safety of hydro structures in the region, or to include the relevant article into the draft of Regional agreement on cooperation in the field of dam safety.

***B. Creating of single register for dams and other hydro structures with interstate importance, including:***

- Approval of the list of hydro structures of interstate importance to include those into the single register;
- Approval of the list of data to be included into the register;
- Development of single or compatible formats to register hydro structures.

It is possible to develop intersectoral (or intergovernmental) agreement to create and introduce single register of hydro structures of interstate importance, or to include the relevant article into the draft of Regional agreement on cooperation in the field of dam safety.

***C. Unification of monitoring methods on condition of dams and other hydro structures***

- Promoting establishment of regional technical centers on monitoring methods, control and measuring devices, automation devices and information transfer.

**ANNEX 4b**

**Preliminary agenda for  
Regional meeting on cooperation in the field of dam safety in Central Asia  
March 12-13, 2008, Tashkent, Uzbekistan**

1. Procedural matters  
(Approval of agenda and election of the Chairman and co-Chairmen)
2. On the status of development or review of the national legislation on hydro structures' safety based on adoption of model national law "On safety of hydro structures" and possible facilitating for stakeholders to adopt model law.  
(Report of member countries representatives, as well as IFAS and EurAsEC)
2. Development of regional agreement on cooperation in the field of dam safety and proposals on further actions to achieve this goal  
(Report of member countries representatives, as well as IFAS and EurAsEC)
4. On harmonizing legislative base and monitoring procedures in the field of dam safety in Central-Asian countries (Report of member countries representatives)
5. On the establishment of the Working Groups (i) on the development of regional agreement on cooperation in the field of hydro structures' safety in Central Asia and (ii) on harmonizing legislative base and technical normative documents in the field of dam safety in Central-Asian countries  
(Discussion of organizational aspects and scope of activity for the Groups)
6. Familiarization with the activity on state regulation in the field of hydro structures' safety in Uzbekistan  
(Report of the representatives of "Gosvodkhoznadzor" and other agencies; visits to Diagnostic and Training centers of "Gosvodkhoznadzor")
7. Approval of action plan for 2008
8. Approval of the decisions, recommendations and the report of the meeting.

**Preliminary agenda for  
National meetings on cooperation in the field of dam safety in Central Asia  
(Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan and Uzbekistan)**

3. Procedural matters  
(Approval of agenda and election of the Chairman and co-Chairmen)
4. Existing legislative basis and organizational forms of state regulation in the field of hydro structures' safety.  
(Analysis of existing legislation and organizational structures in the field of hydro structures' safety, justification of the need to establish specialized legislation in this field)
5. On the status of development or review of the national legislation on hydro structures' safety based on adoption of model national law "On safety of hydro structures".  
(Communication on work conducted to develop or improve national legislation on hydro structures' safety)
6. On participation in the development of regional agreement on cooperation in the field of dam safety  
(Discussion and proposals with regard to opinion towards proposed regional agreement on cooperation in the field of dam safety)
7. On participation in cooperation on harmonizing legislative base and technical normative documents in the field of dam safety in Central-Asian countries  
(Development of proposals on documents and procedures to harmonize those)
8. Approval of the decisions, recommendations and the report of the meeting.

**2008-2009 Work Plan**  
**(Ongoing, planned and possible UNECE and UNESCAP activities in support of**  
**the UN Special Programme for the Economies of Central Asia (SPECA))**

**WATER, ENERGY AND ENVIRONMENT**

In light of a large degree of interdependence of most of the SPECA member countries, efficient use of water and energy resources on mutually agreed and beneficial terms is critical for economic and social development in the region and meeting basic human needs of its populations. The theme of Water and Energy was among the initial work areas of SPECA and was addressed through the Project Working Group on Water and Energy Resources. This work resulted in the elaboration of the Strategy for the Efficient Use of Water and Energy Resources in Central Asia.

The Governing Council, which met in May 2006 in Baku, decided that the proposals for a coordinated SPECA energy and the Baku Initiative on Energy Efficiency and Conservation be submitted to the Project Working Group (PWG) on Water and Energy Resources for consideration and reporting to the next Coordinating Committee. The SPECA Coordinating Committee met in December 2006 in Dushanbe, following the PWG, which reviewed the two proposals extensively and recommended the approval of those projects. The SPECA Coordinating Committee subsequently endorsed the recommendations of the PWG. Further it approved the recommendations of the PWG on strengthening dam safety.

Integrating environmental concerns into key economic sectors is a key condition for sustainable development and ensuring the well-being of people in the SPECA region, which currently faces a range of environmental problems some of which are trans-boundary in nature. These include such problems as air pollution, wastes including hazardous wastes, land degradation and desertification, fragile ecosystems, management of water resources in the subregion, and the problem of the Aral Sea, among others. The Central Asian countries require active support and technical assistance from the international community to enable to effectively address these problems and to ratify and implement relevant international legal

instruments, such as the UNECE Environmental Conventions. Implementation of such Conventions would need considerable effort in the promoting environmental, water and energy cooperation between the countries in Central Asia.

The proposals endorsed by the SPECA Coordinating Committee will contribute towards enhanced energy security of the SPECA region, as well as shifting towards a sustainable development path.

In 2008-2009, the following projects and activities are envisaged:

<b>WATER, ENERGY AND ENVIRONMENT</b>		
<i>B Name of Project/Activity</i>	<i>Timeframe</i>	<i>Budget</i>
<b>Ongoing and planned projects/activities with funding secured or expected. These activities would be implemented in mutually reinforcing way. Additional support from interested partners would expand the scope and the number of beneficiaries of these projects/activities.</b>		
Central Asia Regional Water Information Base (CAREWIB) Project	2005-2009	US\$ 274,200 plus in-kind contributions from partners in the first phase – 2007, US\$ 630,000 plus in-kind contributions from partners in the second phase 2007-2009
Dam safety in Central Asia: capacity-building and subregional cooperation	2005-2010	Pilot phase in 2006 60,000 EURO. Funding for a 3-year phase is being raised. Estimated budget 300,000 EURO
Second project phase “Development of Cooperation on the Chu and Talas Rivers” (with OSCE)	2007-2009	Funding partly available, funding gap for 2008-2009 100,000 EURO
Water quality in Central Asia (with UNDP and others)	2008-2009	Funding from UN Development Account (USD 443,000)
Participation in the elaboration of a concept on efficient use energy and water resources in Central Asia	2008-	Funding is being raised. Estimated budget – US\$ 260,000
Environmental impact assessment in a trans-boundary context: implementation of pilot project for Central Asia	2006-2008	Funding from the Government of Norway, 100,000 EURO

Financing energy efficiency investments for climate change mitigation (in cooperation with UNDP, EBRD)	2007-2014	Kazakhstan is the only SPECA country fully allegeable to participate: other SPECA member countries will be invited to training workshops and policy seminars as an outreach activity
Policy advisory services in the areas of energy efficiency, as well as implementation of UNECE Environmental Conventions	Upon request	UN Regular Budget (RPTC)
<b>Possible projects/activities in areas where UNECE/UNESCAP have considerable experience and in-house expertise and which could be implemented if supported by interested donors/partners. These projects could be implemented in addition to and in coordination with projects/activities listed above.</b>		
Coordinated SPECA Energy System	2008-2012	Funding is being raised. Estimated budget US\$500,000
Baku Initiative on Energy Efficiency and Conservation	2008-2012	Funding is being raised. Estimated budget US\$ 500,000
Elaboration of a regional program on energy efficiency and energy conservation in Central Asia		Estimated budget US\$ 380,000 (to be integrated into the proposal on Baku Initiative)
Trans-Asian Energy System	2008	Estimated budget US\$ 100,000 per annum
Assessment of renewable energy potential including wind and small hydro in Central Asia	2008	Estimated budget US\$ 300,000
English-Russian dictionary on trans-boundary water management	2008	Estimated budget US\$ 80,000