

RESEAU INTERNATIONAL DES ORGANISMES DE BASSIN INTERNATIONAL NETWORK OF BASIN ORGANIZATIONS RED INTERNACIONAL DE ORGANISMOS DE CUENCA

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Международная сеть водохозяйственных организаций ULUSLARARASI HAVZA ORGANİZASYONLARI AĞI





« EURO INBO 2012»

10th EUROPEAN CONFERENCE ON THE WATER FRAMEWORK DIRECTIVE IMPLEMENTATION

ISTANBUL (TURKEY) – 17 - 19 OCTOBER 2012

ROUNDTABLE 1: WATER, FOOD AND ENERGY NEXUS –

THE DILEMMAS, EXPERIENCES, COSTS AND BENEFITS: WFD AND HYDROPOWER – AGRO-ENVIRONMENTAL MEASURES IN THE CAP REFORM, ETC...

Reporter:

Dr. Aslıhan KERÇ, Turkish Water Institute (SUEN), Turkey

RT 1: WATER, FOOD AND ENERGY NEXUS

Co-chairs:

Mr. Fadi COMAIR, General Director of Water and Electricity Resources, Lebanon

Mr. Claude MIQUEU, Chairman Planning Commission, Basin Committee Adour-Garonne, France

Prof. Dr. İlter TURAN, Professor of Political Sciences, Istanbul Bilgi University, Turkey

Key-note speach: Mr. Antonio GUERREIRO DE BRITO,

"EURO-INBO" President, 2011-2012, Portugal

Presentations:

Caner AKTAŞ, Turkey

Anna OSANN, Spain

Vasiliy STASHUK, Ukraine

Daler KHOLMATOV, Tajikistan

Mikhail KALININ, Belarus

Natacha JACQUIN, France

RT 1: WATER, FOOD AND ENERGY NEXUS

- Common global problem of population increase and urbanization
- Close linkages between the energy sector and agriculture. Reservoirs are used for both purposes. Not only the governments, but the private sector is involved in this area.
- Common agriculture policy strategies for maximizing the energy potential and considering ecosystem services are needed.

RT 1: WATER, FOOD AND ENERGY NEXUS

Key Note speech on the 10 Myths about water:

- People should be convinced that they should financially contribute to the protection of water resources and these funds are efficiently used.
- In comparison to surface waters the groundwaters are not given much attention, however they are especially important for local communities.
- Technology should go hand in hand with good governance for solving the challenging water issues.

Istanbul Water Forum



Outcomes:



- Nexus approach that integrates management and governance across sectors
- Consideration of both quality and quantity without neglecting the ecosystem services
- IWRM at basin scale
- Transboundary basins and the need for cooperation
- Unique mechanisms for every individual basin

RT 1: WATER, FOOD AND ENERGY NEXUS "THE HYDROPOWER POTENTIAL"

- In some regions there is a great hydropower potential (examples from Central Asia).
 Regional economy also depends on the hydropower sector.
- Storage capacity of the reservoirs constructed for HP is also used during drought periods.
- Maximizing the efficient use of HP contributes to significant reductions in carbon gas emissions.

RT 1: WATER, FOOD AND ENERGY NEXUS "ALTERNATIVE ENERGY SOURCES"

- It is necessary to incorporate alternative energy sources within this nexus (biofuels, solar, wind, recycling of agricultural products, etc.)
- Solar energy potential in some regions is very high (e.g. Mediterranean). Renewable energy utilization plans should definitely include maximizing solar power potential

RT 1: WATER, FOOD AND ENERGY NEXUS "REGIONAL DIFFERENCES"

- Energy-water relations are region specific.
 Water can be the source of energy, but in arid regions energy is needed for water production. This water in turn is used for irrigation.
- There are no common definitions and solutions valid for all regions.

RT 1: WATER, FOOD AND ENERGY NEXUS "EFFICIENT IRRIGATION TECHNOLOGIES"

 Efficient irigation technologies should be included in IWRM plans for sustainable development.

INVOLVEMENT OF NGO'S

- Participation of NGOs in governance.
- Cooperation between scientific commissions from different regions on sustainable and renewable energy production

IMPLEMENTATION OF RESEARCH OUTCOMES INTO PRACTICE

 Efforts for minimizing the time delay between the scientific research results and conveying the results into practical applications.

RT 1: WATER, FOOD AND ENERGY NEXUS FINAL COMMENTS

- Involvement of all stakeholders are necessary
 Strategic Environmental Impact Assessment
- Mathematical models can be developed for understanding water-energy-food relations and be used as a tool for cooperation.
- Nexus between the Water-Food-Energy depends on cooperation between different institutions / authorities that deal with these 3 fields. Governmental reforms are needed to have an integrated approach for good governance of Water-Food-Energy.