

Joint workshop organized by Iran National Science Foundation (IIASA National Member Organization for Iran), the Ministry of Energy of Iran and International Institute of Applied System Analysis (IIASA).

4-5th October 2016, Tehran, Iran.

FURTHERING RESEARCH COLLABORATION AND INSTITUTIONAL LINKS IN THE FIELDS OF WATER, RISK MANAGEMENT AND NEXUS STUDIES

Introduction

By the decision of the IIASA Governing Council in June 2016 the Islamic Republic of Iran became the 24th member of IIASA, represented by the Iran National Science Foundation (INSF) as IIASA national member organization of Iran. Enhanced collaborative links between Iranian academia, research institutions and governmental organizations and IIASA in research, capacity building, and strategic science policy assessment activities have been developing rapidly, see [IIASA Info Sheet on Activities with Iran](#). The Iranian and IIASA parties agreed on a number of priorities for collaboration as articulated in the Memorandum of Understanding signed by President of INSF and the Director General & CEO of IIASA. These priorities include furthering the collaboration in the areas of Energy, Air Quality, Risk Assessment and Water.

A workshop to further collaboration in the fields of Energy and Air Quality was held from 12 to 13 April 2016 at Sharif Energy Research Institute (SERI). This resulted in a cooperation agreement between IIASA, SERI, Sharif University of Technology and the Iranian National Committee on Energy Efficiency and Environment that identified a range of projects including an analysis of energy transformation in Iran and the development of IIASA's GAINS model to identify cost-effective measures to reduce air pollution in Tehran. These projects are currently under development and envisaged to start in 2017.

Extensive interactions between Iranian and IIASA colleagues also took place during the 7th Annual Conference of the International Society for Integrated Disaster Risk Management ([IDRIM 2016](#)) at Isfahan from 1 to 3 October 2016, during which a number of emerging new collaborative activities were discussed, such as, enhanced work on risk assessment and security of the Iranian electricity grids.

The next workshop, taking place from 4 to 5 October 2016 in Tehran, will involve a broad range of Iranian and IIASA colleagues in the scientific and science to policy science communities, working in the areas of Water and Risk.

Purpose and objective of the Workshop

To provide an overview and assess the baseline of the ongoing policy development and research relating to risk and water and nexus in Iran, and to match these with IIASA current and future agendas, specifically in the IIASA [Water](#) and [Risk](#) programs as well as some of the relevant cross cutting international activities and projects at IIASA, especially the [Water Futures and Solutions Initiative](#) (WFAS) and [The World In 2050](#) (TWI2050) project.

Expected Outcomes

A short report summarizing the key research and policy activities and priorities in the area of water and risk assessment in Iran, both in national and regional/international context, and scoping of activities for collaboration with IIASA. The report is expected to identify suitable mechanisms, human resources, capacity building efforts and funding frameworks for the development of these activities and projects.

AGENDA

Time	Date	2016-10-04
9:30	9:35	Opening Session
9:35	9:40	Welcoming Statement (Mr. Mahmoodi, Vice Minister of Energy)
9:40	10:00	Iranian Keynote Speaker (Vice President: Nosratollah Zargham)
10:00	10:30	IIASA Keynote Speaker (Pavel Kabat)
10:30	10:45	Break
SESSION 1: Water and RISK Challenges in Iran		
10:45	11:05	Current and Future Water Challenges in Iran, The Need for Systemic Integration of Science, Policy and Planning (Alireza Daemi: Vice Minister, Planning and Economic affairs, Ministry of Energy)
11:05	11:20	Iranian Keynote Speaker (Risk Advisor to Minister of energy, Prof. Mohsen Ghafouri Ashtiany)
11:20	11:40	Managing the Risks of the Energy-Water-Food-Environment and Climate Change Nexus in Iran (Bahram Taheri: Adviser to Minister of Energy)
11:40	12:00	Water Governance in Iran (Dr. Hedayat Fahmi), Deputy Director General Integrated Water and Wastewater Planning, MOE
12:00	13:30	Lunch and Prayers
SESSION 2: Water Futures and Solutions		
13:30	14:00	IIASA Water Futures and Solutions Initiative (Simon Langan)
14:00	15:00	<p style="text-align: center;">Discussion on: Incorporation of Iranian Water Challenges into IIASA's Water Futures and Solutions Initiative</p> <p>Chairman: Dr. Taheri and Professor Kabat (IIASA) Discussants: Iranian Scientists & Current Decision Makers</p> <ol style="list-style-type: none"> 1. Mr. Keshavarz, Deputy Minister for Farming, Ministry of Jihad-e- Agriculture 2. Dr. Heydari, Head of Water and Power Economy Studies, Ministry of Energy 3. Drs. Zahraei, University of Tehran Water Program, NEXUS Studies 4. Dr. Dabiri, Deputy of Environmental Protection Organization 5- Dr. Keykha, Parliament Representative and Ex-Head of Natural Environment Dept.
15:00	16:00	<p style="text-align: center;">Round Discussion by participants Wrap up and Action Plan by chairman</p>
16:00	16:15	Break
SESSION 3: International, integrated, global projects		
16:15	18:00	<p>Iranian input and participation in IIASA's international projects and activities on Sustainable Development Goals (SDGs) and regional NEXUS challenges. IIASA activities in these areas include:</p> <ul style="list-style-type: none"> • The World in 2050 (TWI2050) project, which is a partnership between science and policy that aims to develop equitable pathways to sustainable development within safe planetary boundaries in order to build human and environmental resilience to global

		<p>change. It uniquely aims to address the full spectrum of sustainable development challenges arising from SDGs.</p> <ul style="list-style-type: none"> The Integrated Solutions for Water, Energy, and Land project, which has been recently launched by IIASA, together with the Global Environment Facility (GEF) and the United Nations Industrial Development Organization (UNIDO). This new project aims to identify integrated solutions to energy, water, food, and ecosystem security in selected regions of the world. These are regions facing multiple energy and land use challenges and rapid demographic and economic changes, and are hardest hit by increasing climate variability and change. <p style="text-align: center;">Chairman: Dr. Taheri and Professor Kabat</p>
16:15	16:45	Overview presentation on TWI2050 project and related Nexus activities (Pavel Kabat)
16:45	18:00	<p>Discussants: Iranian Scientists & Current Iranian and UN Affiliated Decision Makers</p> <ol style="list-style-type: none"> 1. Dr. Maknun, Head of SD Office, Amirkabir U of Tech, Vice Director of Sustainable Development National Committee 2. Dr. Alipour, Advisor to Vice President in Department of Environment and General Director in Environmental Research and Technology 3. Dr. Keykha, Ex-Deputy DOE Director of Natural Environment and Member of the Environmental Commission in the Parliament 4. Dr. Kalantari, Ex-Minister of Agriculture, Advisor to President on Environment, Water and Agriculture, Director of Lake Urmia Restoration Project 5-Mr. Daemi, Deputy Minister on Economic and Planning Affairs, MOE 6- FAO Representative, Iran 7- UNDP Representative, Iran 8- Tehran Cluster UNESCO Representative <p>Round Discussion by participants (Avg. 8 minutes per participant and around 10 minutes for moderation)</p>
18:00	18:15	Wrap up and Action Plan by chairman

Time	Date	2016-10-05
SESSION 4: Water Related Risk Management		
8:30	8:50	From risk to resilience: IIASA research in Iran (Reinhard Mechler and Masoud Yazdanpanah)
8:50	9:10	Assessing flood and drought risk given climate change (Stefan Hochrainer)
9:10	9:30	Policy tools for mitigating and transferring drought and flood risk (Ali Chavoshian)
9:30	9:50	Governing the Water Crisis (Nadya Komendantova)
9:50	11:15	<p>Discussion on: How can IIASA-Iran collaboration contribute to Iran's water related risk challenges?</p> <p>Chairman: Dr. Ramazani, Head of System Engineering, Amirkabir University of Technology</p> <p>Discussants: Iranian Scientists & Former Decision Makers & Private Sector</p> <ol style="list-style-type: none"> 1. Prof. Karamouz, Professor of Water Department, Tehran University

		2. Dr. Maknun, President Iranian Water Resources Association 3. Dr. Shiati/Mr. Shafiefar, Consultant of Water Sector, Yekom Consultants 4. Masoud Yazdanpanah (IIASA researcher)
11:15	11:30	Break
11:30	12:30	Round Discussion by Participants Wrap up and Action Plan by Chairman
12:30	14:00	Lunch and Prayers

SESSION 5: Case Study – Wetlands and Terminal Lakes (Cases discussed: Urmia Lake and Hamoon Lake), Location Sharif university of Technology		
14:00	14:30	Urmia Lake Restoration Program (Prof. Tajrishi, Director of M&E and study of Urmia Lake Restoration Program)
14:30	14:50	The role of Climate change on Urmia Lake Crisis (Somayeh Shadkam)
14:50	15:50	Discussion on: Lessons learned from ULRP Chairman: Prof. Tajrishi 1. Prof. Morid Head of the Group Water Resources Management, Tarbiat Modares University 2. Somayeh Shadkam (IIASA Researcher) 3. Dr. Arab, Advisor to Urmia Lake Restoration Committee 4. Dr. Noorian, Ex-Head of Iranian Meteorological Organization, Ex-Vice Director of Dept. of Environment 5. Dr. Keykha, Member of Parliament from Sistan va Baloochestan Province, Ex-Deputy Director, DOE, Natural Environment 6. Mr. Jabbar Vatan Fada/Mr. Naghibi, Transboundary Water Dept. Director, MOE 7. Dr. Bagherzadeh Karimi, Director of Wetlands, DOE 8. UNDP Representative, Iran
15:50	16:05	Break
16:05	16:30	Hirmand River and the Hamoon Lake Crisis (Mr. Jabbar VatanFada) + Translation
16:30	17:30	Discussion on Possible incorporation of Hirmand River, Hamoon Lake and Transboundary Water Issues in IIASA's Water and RISK programs
17:30	18:00	Wrap-up/Action plan (Urmia Lake Basin, Hirmand River, Harmoon Lake and wider research needs and IIASA expertise)

