International Atomic Energy Agency

INPRO Dialogue Forum on Nuclear Energy Innovations: Multilateral Approaches to Sustainable Nuclear Energy Deployment - Institutional Challenges

PROSPECTUS

Project Number & Title: INT/4/142 “Promoting Technology Development and Application of Future Nuclear Energy Systems in Developing Countries”

Place (City, Country): Vienna International Centre, Vienna, Austria

Dates: 4-7 October 2010

Deadline for Nominations: 31 July 2010

Organizers: The International Atomic Energy Agency (IAEA), Vienna, Austria

Host Country Organizer: IAEA Workshop Directors:

Mr. Hussam Khartabil, Nuclear Engineer, INPRO, Division of Nuclear Power, Department of Nuclear Energy; tel.: +43 1 2600 22818, e-mail: h.khartabil@iaea.org

Mr. Ahmed Irej Jalal, Senior Energy/Nuclear Power Planner, Planning and Economic Studies Section (PES), Department of Nuclear Energy; tel.: +43 1 2600 22780, e-mail: a.jalal@iaea.org

IAEA Programme Management Officer:

Mr. Ivan Videnovic, Europe Section 2, Department of Technical Cooperation; tel.: +43 1 2600 22409, e-mail: i.videnovic@iaea.org

IAEA Technical Officer:

Mr. Peter J. Gowin, Programme Liaison Officer, INPRO, Division of Nuclear Power, Department of Nuclear Energy; tel.: +43 1 2600 22848, e-mail: peter.gowin@iaea.org

Language: English

Purpose: Recent INPRO studies are increasingly showing the importance of implementing multilateral approaches to ensure successful and optimal deployment of nuclear energy throughout the 21st century in a sustainable manner. These INPRO studies include:
- Vision & scenario studies on the role of nuclear energy to meet expanding global energy needs.
- Nuclear Energy System Assessment using the INPRO methodology.
- Innovations in institutional arrangements (e.g., bilateral or multilateral agreements, national nuclear legislation and regimes, safety standards, new regulatory and licensing approaches, etc).

Multilateral approaches can be defined as cooperation between more than two national and/or international actors to achieve a desired outcome. Multilateral approaches have been considered in the past to address certain challenges associated with nuclear energy deployment. Examples include proposals to create international fuel banks, harmonization of licensing approaches, and the creation of international fuel cycle centres. These and other proposals for multilateral approaches have significant economic advantages and address important issues such as enhanced access to nuclear technology, security of supply and non-proliferation.

Multilateral approaches have technical and non-technical challenges. This workshop will focus on the non-technical challenges. These non-technical challenges are institutional in nature and require innovative approaches that need to be discussed and formulated in advance of any successful expanded deployment of nuclear energy systems. This workshop will provide an opportunity for technology users and holders to discuss these institutional challenges in the context of an expanded global use of nuclear energy that will contribute to meeting global energy needs in a sustainable manner for the remainder of the 21st century. The focus of the discussion will be on recent multilateral proposals that have long-term implementation timeframe and are expected to have major implications on the sustainability of nuclear energy.

The workshop will be conducted in cooperation between INPRO, the Planning and Economic Studies Section (PESS), Office of External Relations and Policy Coordination (EXPO), the Safety Assessment Section of the Division of Nuclear Installation Safety, the Nuclear Power Engineering Section (NPES), and the Division of Nuclear Fuel Cycles and Waste Technology (NEFW).

**Expected Output(s):** Participating Member States will be provided with information on the latest initiatives in multilateral cooperation to facilitate the long-term deployment of sustainable nuclear energy systems. The participants will also discuss and debate the expected institutional challenges associated with these multilateral approaches. The outcome of the workshop will be documented in a meeting report.

**Scope and Nature:** The workshop will consist of lectures and presentations by IAEA and international experts with a focus on the following:

1) Introductory examples of past multilateral initiatives in selected areas and
highlights of recent INPRO studies that demonstrate the need to give further consideration to multi-lateral approaches.

2) Presentations highlighting more recent multilateral initiatives (e.g., security of supply and multilateral fuel cycle centres) that have long-term implications in terms of facilitating economic and equitable access to nuclear energy while addressing the issue of long-term sustainability.

3) Open discussion/dialogue moderated by a panel about major institutional challenges associated with the implementation of multilateral approaches and the time-frame for addressing these challenges if nuclear energy is to contribute to meeting global energy needs in the 21st century.

4) Discussion of future steps.

Background Information:

Through the Technical Cooperation (TC) Programme and the International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO), the Agency seeks to bring together technology holders and technology users to discuss and share information on desirable innovations, both technical and institutional, to ensure that nuclear energy is available to meet long-term global energy needs in a sustainable manner. The INPRO Dialogue Forum is one mechanism for technology holders and users to discuss such innovations. Several workshops are planned and the first workshop was held February 1-4, 2010.

Participation:

The meeting is open to Albania, Algeria, Angola, Argentina, Armenia, Australia, Azerbaijan, Bangladesh, Belarus, Belgium, Bolivia, Brazil, Bulgaria, Burkina Faso, Canada, Cameroon, Chile, China, Croatia, Czech Republic, Dominican Republic, Ecuador, Egypt, El Salvador, Estonia, Finland, France, Georgia, Germany, Ghana, Greece, Hungary, India, Indonesia, Israel, Italy, Japan, Jordan, Kazakhstan, Kenya, the Republic of Korea, Kuwait, Latvia, Libyan Arab Jamahiriya, Lithuania, Malaysia, Mexico, Mongolia, Morocco, Netherlands, Nigeria, Norway, Pakistan, Peru, Philippines, Poland, Qatar, Romania, Russian Federation, Saudi Arabia, Senegal, Slovakia, Slovenia, South Africa, Spain, Sudan, Sweden, Switzerland, Syrian Arab Republic, Thailand, Tunisia, Turkey, Uganda, Ukraine, United Arab Emirates, United Kingdom, United Republic of Tanzania, United States of America, Uruguay, Venezuela, Vietnam, Yemen, and the European Commission.

Financial support for participants from developing countries will be limited to one participant per Member State. The participants from developed countries and from the countries which are not recipients of the IAEA Technical Cooperation (TC) assistance are kindly requested to attend the workshop on cost-free basis to the IAEA. To enhance participation of experts from technology holder countries, limited financial support will be provided to countries that are not recipients of TC assistance.

Participants’ Qualifications:

The workshop is targeted to senior officials engaged or interested in establishing and conducting a dialogue between nuclear technology holders and users as part of the international discussion on nuclear issues, including planning for future nuclear energy systems.
The **Description of work** part of the nomination form should contain the justification of the role of the nominated participant in the country’s envisaged engagement in the Dialogue Forum as part of the national strategy for nuclear energy.

**Nomination Procedure:**

Nominations should be submitted on the standard IAEA Nomination Form for Meeting/Workshop and National Consultant (available on the IAEA website: http://www.iaea.org/). Completed forms should be endorsed by relevant national authorities and returned to the Agency through the official channels, i.e. the designated National Liaison Office for IAEA Matters.

The completed nomination forms should be sent to the Programme Management Officer for this project, Mr. Ivan Videnovic, through IAEA Official Fax (+43-1-26007) or E-Mail (Official.Mail@iaea.org), not later than **31 July 2010**. Nominations received after this date or which have not been routed through the established official channels cannot be considered.

**Administrative and Financial Arrangements:**

Nominating Governments will be informed in due course of the names of the candidates who have been selected and will, at that time, be given full details of the procedures to be followed with regard to administrative and financial matters.

Selected participants from countries eligible to receive technical assistance will be provided with a round trip economy class air ticket from their home countries to **Vienna, Austria**, and a Daily Subsistence Allowance (DSA) at the prevailing UN Rate. Shipment of accumulated meeting materials to the participants' home countries is not the responsibility of the IAEA.

The organizers of the meeting do not accept liability for the payment of any cost or compensation that may arise from damage to or loss of personal property, or from illness, injury, disability or death of a participant while he/she is travelling to and from or attending the meeting, and it is clearly understood that each Government, in nominating participants, undertakes responsibility for such coverage. Governments would be well advised to take out insurance against these risks.