

**International Atomic Energy Agency**  
**Technical Cooperation Project**  
**INT/4/142**  
**“Promoting Technology Development and Application of**  
**Future Nuclear Energy Systems in Developing Countries”**

**PROSPECTUS**

**Title:** Workshop on *IAEA Tools for Nuclear Energy System Assessment for Long Term Planning and Development*

**Place:** Vienna International Center, Vienna, Austria  
C04 Board Room

**Date:** 20–23 July 2009

**Deadline for nominations:** 11 May 2009

**Organizers:** The International Atomic Energy Agency (IAEA)

**Languages:** English

**Target Countries:** Albania, Algeria, Angola, Argentina, Armenia, Australia, Azerbaijan, Bangladesh, Belarus, Belgium, Bolivia, Brazil, Bulgaria, Burkina Faso, Canada, Cameroon, Chile, China, Croatia, the Czech Republic, Dominican Republic, Ecuador, Egypt, 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, the Netherlands, Nigeria, Norway, Islamic Republic of Pakistan, Peru, Philippines, Poland, Qatar, Romania, the Russian Federation, Saudi Arabia, Republic of El Salvador, Senegal, Slovakia, Slovenia, South Africa, Spain, Sudan, Sweden, Switzerland, Syrian Arab Republic, United Republic of Tanzania, Thailand, Tunisia, Turkey, Uganda, Ukraine, United Arab Emirates, the United Kingdom, the United States of America, Uruguay, Venezuela, Vietnam, Yemen, the European Commission

**Participation** Financial support for participants from developing countries will be limited to **one participant per Member State**. The participants from the following countries are expected to attend the workshop on cost-free basis to the IAEA: Australia, Belgium, Canada, Finland, France Germany, Greece, Italy, Japan, the Republic of Korea, Kuwait, the Netherlands, Norway, Saudi Arabia, Spain, Sweden, Switzerland, United Arab Emirates, the United Kingdom, the United States of America, and the representatives of the European Commission.

**Background:** Member States considering long-term and strategic planning of energy and nuclear technology issues should develop an integrated view of all implications, possible development pathways, scenarios and options. Starting from the Member States’ vision and existing long-term national development directions, including implications for sustainability, an assessment should be done for two areas mainly:

1. Evaluation of all options for long-term energy development,
2. Integrated, holistic and long-term view of nuclear energy systems, when nuclear energy is considered as part of the energy mix

Such an integrated view on long-term energy planning and nuclear energy system assessment is essential, considering that the operation lifetimes of a nuclear

power plant may be up to 60 or 80 years. In addition, the time for planning, development, construction and commissioning, decommissioning and waste and spent fuel management needs to be added. Therefore, in total, any nuclear power plant has implications extending beyond 100 years or, in other words, three generations.

**Purpose:** The purpose of the workshop is to present to Member States tools and methods that are available from the Agency in support to the assessment of nuclear energy system for the long-term. These include

1. Energy system assessment tools
2. Nuclear energy system assessment and analysis tools, in particular the INPRO methodology and the nuclear fuel cycle material balance tools.
3. Indicators for exploring long-term nuclear energy perspectives and for analyzing nuclear energy systems according to sustainable development

A second purpose is to obtain feedback from Member States on those tools, experience gained, sharing lessons learned and identifying needs for IAEA support.

**Participants' Qualifications and experience:** The workshop is targeted to technical experts engaged in nuclear energy system assessment and responsible for the development of national strategies for nuclear energy, considering all the relevant aspects affecting sustainable development in a long-term horizon, suitable for integration into and support of national energy development plans. A scientific/technical background in nuclear energy technology is essential.

The **Description of work** part of the nomination form should contain the justification of the role of the nominated participant in the country's development of the national strategy for nuclear energy.

All the documents and discussions will be all conducted in English.

**Nature of the workshop:** The workshop will provide an overview of the tools and methods identified above, including an introduction to the issues that each of them addresses, a guide on how to use the tools and methods in a specific context. Insights and lessons learned by the application of these tools by some Member States will also be shared.

The workshop will also provide an opportunity to discuss with IAEA staff specific needs and interests from Member States for obtaining support and for using the tools, possibly encompassing training, documentation, assistance missions and application support.

**IAEA Responsible Officers:** **Workshop Directors:** Mr. Palmiro Villalibre, INPRO Group, Division of Nuclear Power, Department of Nuclear Energy; tel.: +43 1 2600 26718, e-mail: [p.villalibre@iaea.org](mailto:p.villalibre@iaea.org) , and Mr. Ahmed Irej Jalal, Senior Energy/Nuclear Power Planner, Planning and Economic Studies Section (PESS), Department of Nuclear Energy; tel.: +43 1 2600 22780, e-mail: [a.jalal@iaea.org](mailto:a.jalal@iaea.org)

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**Application  
Procedure:**

Nominations should be submitted on the standard IAEA application form for meetings and workshops. The applications should be endorsed by the official channels (the Ministry of Foreign Affairs, the National Atomic Energy Authority or the office of the United Nations Development Programme). The completed application form should be returned through established official channel between the corresponding Member State and IAEA. Applications must be received by the International Atomic Energy Agency, Wagramer Strasse, 5, P.O. Box 100, A-1400, Vienna, **not later than 11 May 2009**. Nominations received after that date or applications which have not been routed through one of the aforementioned cannot be considered. Advanced nominations by facsimile (+43-1-26007) or e-mail to ([Official.Mail@iaea.org](mailto:Official.Mail@iaea.org)) are welcome. The facsimile/e-mail should contain the following basic information about the candidate(s): name, age, sex, academic qualifications, and present position including exact nature of duties carried out, proficiency in English, and full working address (including telephone and fax numbers, and e-mail) to enable the IAEA to make preliminary evaluation of and to communicate with the candidates.

**Administrative  
and financial  
arrangements:**

Nominating Governments will be informed in due course on the names of the selected candidates and at that time full details will be given on the procedures to be followed with regard to administrative and financial matters. During their attendance at the Workshop participants from developing countries, eligible to receive technical assistance, will be provided by the IAEA with a stipend sufficient to cover the cost of their accommodation, food, and minor incidental expenses. The IAEA will also provide the participants with a round-trip air ticket, economy/excursion class, from their home countries to Vienna, Austria and return. Shipment of accumulated workshop materials to the participants' home countries is not the responsibility of the IAEA. The organizers of the workshop 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 traveling to and from or attending the workshop, 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.