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国际原子能机构

International Atomic Energy Agency

Agence internationale de l'énergie atomique

Международное агентство по атомной энергии

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The Secretariat of the International Atomic Energy Agency (IAEA) presents its compliments to the IAEA's Member States and has the honour to draw their attention to the **Third Meeting of the Technical Working Group on Small and Medium Sized or Modular Reactors (TWG-SMR)** (hereinafter referred to as "event"), which had to be postponed owing to the COVID-19 outbreak and will now be held at the IAEA's Headquarters in Vienna, Austria, from **31 August to 2 September 2020**.

The purpose of the event is to discuss recent advances in small and medium sized or modular reactor (SMR) technology, to identify subjects of common interest for future collaboration, and to advise on IAEA programmatic activities.

The Terms of Reference of the TWG-SMR are enclosed.

The event will be held in English.

Member States are informed that designations already received for this event will remain valid. Should Member States not have submitted any designations or wish to change their designation, they are invited to designate one participant to represent the Government at this event. Member States are strongly encouraged to identify suitable women participants.

The IAEA is generally not in a position to bear the travel and other costs of participants in the event. The IAEA has, however, limited funds at its disposal to help meet the cost of attendance of certain participants. Upon specific request, such assistance may be offered to normally one participant per country, provided that, in the IAEA's view, the participant will make an important contribution to the event. The application for financial support should be made at the time of designating the participant using the attached Grant Application Form (Form C).

It should be noted that compensation is not payable by the IAEA for any damage to or loss of personal property. The IAEA also does not provide health insurance coverage for participants in IAEA events. Arrangements for private insurance coverage on an individual basis should therefore be made. The IAEA will, however, provide insurance coverage for accidents and illnesses that clearly result from any work performed for the IAEA.

Designations should be submitted to the IAEA through the competent national authority (Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority) not later than **10 July 2020** using the attached Participation Form (Form A). Completed and authorized Participation Forms should be sent either by email to: Official.Mail@iaea.org or by fax to: +43 1 26007 (no hard copies needed). Copies should be sent by email to the Scientific Secretary of the event, Mr Frederik Reitsma, Division of Nuclear Power, Department of Nuclear Energy (Email: F.Reitsma@iaea.org) and to the Administrative Secretary, Ms Mercedes Nicole Córdova Jurak (Email: M.Cordova-Jurak@iaea.org). The Scientific Secretary of the event will liaise with the participants directly concerning further arrangements, including travel details, as appropriate, once the official designations have been received.

The Secretariat of the International Atomic Energy Agency avails itself of this opportunity to renew to the IAEA's Member States the assurances of its highest consideration.



16 June 2020

Enclosures: Terms of Reference of the TWG-SMR

Participation Form (Form A)

Grant Application Form (Form C)

**TERMS OF REFERENCE FOR
THE IAEA TECHNICAL WORKING GROUP ON
SMALL AND MEDIUM SIZED OR MODULAR REACTORS
TWG-SMR**

The Technical Working Group on Small and Medium Sized or Modular Reactors (TWG-SMR) is a group of experts established to provide advice, recommendations and support to the IAEA for programmatic planning and implementation in all areas related to technology development, design, development and economics of small and medium sized or modular reactors (SMRs) that can be used for the production of electricity and/or industrial process heat. Reflecting a global network of excellence and expertise, this Technical Working Group is specifically meant to provide guidance to the IAEA on addressing challenges associated with the assessment of technology readiness and deployability of SMRs in Member States. The TWG-SMR, through its advice and recommendations, will benefit the Member States by strengthening the effectiveness and coordination of the IAEA's activities on SMR technology development, design, deployment and economics.

I. SCOPE

The TWG-SMR focuses on technology development, design, deployment and economics of SMRs that can be used for the production of electricity and/or industrial process heat in both expanding and embarking countries. The Technical Working Group will provide advice, recommendations and formulate programmatic guidance for the IAEA's activities on SMRs, specifically in the following areas:

- Research, technology development and innovation;
- Development of generic technical requirements for user countries;
- Technology assessment approaches for advanced SMR designs;
- Reliability, safeguardability, and constructability;
- Codes and design standardization of structures, systems and components;
- Industrialization of SMRs, covering design, engineering, manufacturing and supply chain;
- Site characterization;
- Economic competitiveness, financial considerations, market needs and cost analysis;
- Capacity building for embarking and expanding nuclear countries;
- International cooperation.

In order to avoid unnecessary duplication of activities and to develop the necessary synergies and complementarities, the TWG-SMR will coordinate its activities with other in-house IAEA programmes in cross-cutting areas, as well as with related activities of other international organizations.

II. FUNCTIONS

The functions of the TWG-SMR are:

- a) To provide advice and guidance, and to marshal support in interested Member States for implementation of the IAEA's programmatic activities on technology development, design, deployment and economics of SMRs for the production of electricity and/or industrial process heat (the Technical Working Group will also provide guidance on developing roadmaps to assess the technology readiness level of SMR designs for deployment in Member States);
- b) To provide a forum for information and knowledge sharing on national and international programmes in the area of SMR technology development, deployment and human capacity building;
- c) To act as a link between the IAEA's activities in specific areas and national technical and industrial communities, as well as delivering information from and to national communities;
- d) To provide advice on preparatory technical missions in Member States, on the IAEA's activities in planning and implementing coordinated research programmes, collaborative assessments and other activities, as well as on the review of the results of SMR demonstration projects;
- e) To develop and/or review selected IAEA publications from the IAEA Nuclear Energy Series or the IAEA Technical Documents series, assess existing gaps and advise on the preparation of new publications or other outputs;
- f) To identify important topics for discussion by the Standing Advisory Group on Nuclear Energy (SAGNE) and contribute to status reports, Technical Meetings and topical conferences in the field of advanced SMRs and their applications;
- g) To encourage the participation of young nuclear professionals, in particular from embarking countries, as appropriate, in IAEA activities.

III. MEMBERSHIP

Members of the TWG-SMR shall be appointed by the Deputy Director General, Head of the Department of Nuclear Energy, following consultation with the respective national authorities or organizations.

Members of the TWG-SMR:

- shall be acknowledged experts in advanced reactor design and technology development and deployment, including economic aspects, and shall have extensive links with international/professional technical communities;
- are to serve for a standard term of four (4) years;
- shall participate in the TWG-SMR in their personal capacity and shall provide, as appropriate, views on national policies and strategies in the Technical Working Group's technical field;
- may, as appropriate, bring experts to provide additional information and share experience during the meetings of the TWG-SMR.

The total membership of the TWG-SMR shall not exceed twenty (20) members.

The Deputy Director General, Head of the Department of Nuclear Energy may from time to time also co-opt additional members and/or invite observers from other Member States and international or regional organizations on an ad-hoc or continuing basis.

IV. CHAIRMANSHIP

The Chairman of the TWG-SMR shall be selected from the members of the TWG-SMR by the Deputy Director General, Head of the Department of Nuclear Energy.

V. SECRETARIAT AND ADMINISTRATIVE AND TECHNICAL SUPPORT

Within available resources, the Deputy Director General, Head of the Department of Nuclear Energy will provide for administrative and secretariat services required by the TWG-SMR, including meeting facilities, maintenance of records and distribution of documents. The Nuclear Power Technology Development Section of the Department of Nuclear Energy shall provide the services of a Scientific Secretary. Support, when required, will also be provided by managers and staff from the Department of Nuclear Energy or other relevant Departments.

VI. METHODS OF WORK AND DELIVERABLES

Except as otherwise herein stated, the TWG-SMR will determine its own methods of work, including preparation of its Agenda, establishment of special groups, keeping of records and other procedures, and will report on its findings to SAGNE and to the Deputy Director General, Head of the Department of Nuclear Energy.

The activities of the TWG-SMR between periodic meetings shall be coordinated by the Scientific Secretary taking into due consideration the relevant recommendations of the TWG-SMR and SAGNE.

Following each meeting, the TWG-SMR shall provide the Deputy Director General, Head of the Department of Nuclear Energy with a report on its achievements and recommendations. The report shall also be published on the Web in a format and content agreeable to all members.

The Chairman of the TWG shall communicate to SAGNE the recommendations for strategic development or other important topics to be discussed at SAGNE meetings.

VII. MEETINGS

The TWG-SMR will meet at regular intervals but not more frequently than once a year with each meeting lasting up to four working days. Extraordinary meetings may be called when required.

Meetings will be conducted in English only.

VIII. COSTS

The IAEA is not in a position to bear the travel and other costs of the TWG-SMR members to attend the TWG-SMR meetings. All costs involved in the participation of each member, including travel and per diem expenses, shall, in general, be supported by the Member State/organization. However, the IAEA may contribute to covering the cost of attendance of members from developing countries, if sufficient funds are available and if a significant contribution can be made to the meeting by the respective members.

Participation Form

Third Meeting of the Technical Working Group on Small and Medium Sized or Modular Reactors (TWG-SMR)

IAEA Headquarters, Vienna, Austria

31 August–2 September 2020

To be completed by the participant and sent to the competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority) of his/her country for subsequent transmission to the International Atomic Energy Agency (IAEA) either by email to: Official.Mail@iaea.org or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretary [F.Reitsma@iaea.org] and to the Administrative Secretary [M.Cordova-Jurak@iaea.org].

Participants who are members of an invited organization can submit this form to their organization for subsequent transmission to the IAEA.

Deadline for receipt by IAEA through official channels: 10 July 2020

Family name(s): (same as in passport)	First name(s): (same as in passport)	Mr/Ms
Institution:		
Full address:		
Tel. (Fax):		
Email:		
Nationality:	Representing following Member State/non-Member State/entity or invited organization:	
If/as applicable: Do you intend to make a presentation? Yes <input type="checkbox"/> No <input type="checkbox"/> Title:		

Grant Application Form

Third Meeting of the Technical Working Group on Small and Medium Sized or Modular Reactors (TWG-SMR)

IAEA Headquarters, Vienna, Austria

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To be completed by the applicant and sent to the competent national authority (e.g. Ministry of Foreign Affairs, Permanent Mission to the IAEA, or National Atomic Energy Authority) of his/her country for subsequent transmission to the International Atomic Energy Agency (IAEA) either by email to: Official.Mail@iaea.org or by fax to: +43 1 26007 (no hard copies needed). Please also send a copy by email to the Scientific Secretary [F.Reitsma@iaea.org] and to the Administrative Secretary [M.Cordova-Jurak@iaea.org].

Deadline for receipt by IAEA through official channels: 10 July 2020

Family name(s): (same as in passport)	First name(s): (same as in passport)	Mr/Ms:
Mailing address:	Tel.:	
	Fax:	
	Email:	
Date of birth (yy/mm/dd):	Nationality:	

1. Education (post-secondary):

Name and place of institution	Field of study	Diploma or Degree	Years attended from to	

2. Recent employment record (starting with your present post):

Name and place of employer/ organization	Title of your position	Type of work	Years worked from to	

3. Description of work performed over the last three years:

4. Institute's/Member State's programme in field of event:

Date: Signature of applicant: _____

Date: **Name, signature and stamp of Ministry of Foreign Affairs, Permanent Mission to the IAEA or National Atomic Energy Authority** _____