



IAEA

International Atomic Energy Agency

Atoms for Peace

Consultancy
on the
13th GIF-IAEA Interface Meeting

IAEA Headquarters
Vienna, Austria

18 to 19 March 2019

Ref. No: EVT1802002

Information Sheet

A. Background

The IAEA supports Member States in the development of innovative advanced nuclear energy systems across the whole spectrum of technical areas. The International Project on Innovative Nuclear Reactors and Fuel Cycles (INPRO) was established in 2000 as an IAEA flagship project through a General Conference resolution focused in the insurance of a sustainable nuclear energy supply to help meet 21st century global energy needs. The advanced reactor technology development activities at the agency is led by the Nuclear Power Technology Development Section (NPTDS).

The Generation IV International Forum (GIF) is a co-operative international endeavour which was set up to carry out the research and development needed to establish the feasibility and performance capabilities of the next generation nuclear energy systems. It was established in 2000 and currently has fourteen members. GIF selected six reactor technologies for further research and development. These include the: Gas-cooled Fast Reactor (GFR), Lead-cooled Fast Reactor (LFR), Molten Salt Reactor (MSR), Supercritical Water-cooled Reactor (SCWR), Sodium-cooled Fast Reactor (SFR) and Very High Temperature Reactor (VHTR).

In the past, most of the joint activities were exclusively related to the INPRO and NPTDS technical areas but it evolved to include many other areas, including Nuclear Safety and Security, Economics, Educational and Training. Within GIF several Working Groups and task Forces cover these cross-cutting areas. Since the mutual areas of interest involve activities throughout the IAEA, other IAEA offices are continuously encouraged to participate in the meeting to continue the technical exchange and to explore and develop additional opportunities for cooperation.

Shared interests between GIF, INPRO, NPTDS and other IAEA offices have been confirmed in twelve interface meetings held at the IAEA since 2003, one having convened most recently in March of 2018. Areas of technical dialogue, coordination and cooperation have been explored in each of these meetings.

B. Objectives and Deliverables of the Meeting

The objectives of the Meeting are as follows:

- Exchange information on the progress, status and future plans of activities related to RD&D and technology innovations of NES, including Gen IV reactors;
- Monitor progress and update status of action items agreed in the previous interface meeting; and
- Continue exploring new potential areas for cooperation, identifying action items and establishing priorities for further consideration.

C. Target Audience

The target audience for the consultancy meeting comprises:

- Representatives nominated by GIF; and
- Management and experts from the IAEA representing the technical areas identified for possible cooperation.

D. Working Language

The working language of the meeting will be English with no interpretation provided. All communications, abstracts and papers must be submitted in this language.

E. Venue

The meeting will commence on Monday, 18 March 2019 at 9:30 a.m. in Room C-C6, Building C, Vienna International Centre (VIC). Meeting participants are requested to arrive at Checkpoint 1/Gate 1 of the VIC one hour before the start of the meeting on the first day, in order to allow sufficient time for issuing of grounds passes, which are necessary for official visitors to the VIC.

F. Organization

Official correspondence with regard to the technical aspects of the meeting should be addressed to the Scientific Secretaries:

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Agenda

13th GIF-IAEA Interface Meeting (EVT1802002)

IAEA Headquarters, Vienna. 18-19 March 2019

Meeting Room: C building, 7th floor, Room C6

Day 1 – Monday, 18 March

<i>Time</i>	<i>Topic</i>	<i>Presenters</i>
09:30	Session I: Opening Session	
09:30	Welcoming Address by NE DDG	Mr M. Chudakov (I)
09:35	Opening Remarks by GIF PG Chair	Mr H. Kamide (G)
09:40	Self-Introduction of Participants, Appointment of Meeting Chair & Approval of the Agenda	All
10:00	Overview of IAEA Activities and Opportunities for Cooperation	Mr D. Hahn (I)
10:20	GIF General Information and Status of the System Arrangements	Mr H. Paillère (G)
10:40	Summary of Technical Achievements and R&D Outlook	Mr G. Rodriguez (G)
11:00	International Conference on Climate Change and the Role of Nuclear Power	Mr S. Monti (I) NENP
11:10	Group photo	All
<i>11:15</i>	<i>Coffee break (CO7 next to the Coffee Corner on the right side)</i>	
11:40	Session II: Status of GEN IV Systems Development and Update on IAEA Activities on Advanced Reactors	
11:40	SFR	Mr J-M. Ruggieri (G)
12:00	LFR	Mr A. Alemberti (G)
12:20	GFR	Mr B Kvizda (G)
12:40	IAEA Activities on Fast Reactors	Mr V. Kriventsev (I)
<i>13:00</i>	<i>Lunch break</i>	
14:20	Session II - Continue	
14:20	SCWR	Mr R. Sadhankar (G)
14:40	IAEA Activities on SCWR	Mr M. Krause (I)
15:00	VHTR	Mr M. Fütterer (G)
15:20	MSR	Mr V. Ignatiev (G)
15:40	IAEA Activities on (V)HTRs (+ MSR & SMR)	Mr F. Reitsma (I)
<i>16:00</i>	<i>Coffee break (CO7 next to the Coffee Corner on the right side)</i>	
16:30	Opportunities and challenges for advanced nuclear reactors in future power markets	
16:30	GIF EMWG Analysis of the Impact of Increasing Share of Renewables on the Deployment of GEN IV Nuclear Systems	Mr R. Sadhankar (G)
17:00	A new INPRO Service on Scenario Modelling and Analysis to Support Sustainable Development of Nuclear Energy.	Mr J. Phillips (I)
17:20	Status of the IAEA TECDOC on Options to Enhance Energy Supply Security using Hybrid Energy Systems based on SMRs	Mr M. Hussain (I)
17:30	Outcomes of the Technical Meeting on Nuclear–Renewable Hybrid Energy Systems for Decarbonized Energy Production and Cogeneration and planned publications	Ms T. Jevremovic (I) Ms A. van Heek (I)
<i>17:50</i>	<i>Meeting adjourns for the day</i>	

*Comments and presentations: (I) = IAEA Staff, (G) = GIF Member State representative

<i>Day 2 – Tuesday, 19 March</i>		
<i>Time</i>	<i>Topic</i>	<i>Presenters</i>
09:00	Session III: Safety of Innovative Advance Reactor Systems	
09:00	NSNI Priorities Related to Advanced Nuclear Plant Designs	Ms C. Spitzer (I)
09:20	Presentation of RSWG activities	Mr Y Okano (G)
09:40	Presentation of SDC TF activities	Mr S. Kubo (G)
10:00	Proposed Joint GIF IAEA TM on VHTR safety design criteria	Mr F. Reitsma (I)
10:10	<i>Coffee break (CO7 next to the Coffee Corner on the right side)</i>	
	Session IV: Discussions on Other Collaboration	
10:40	R&D Infrastructures	
10:40	GIF TF on R&D Infrastructure	Mr. H. Paillere on behalf of R. Garbil (G)
11:00	IAEA Data Base and Portals on Advanced Reactors Research Infrastructures and Experimental Facilities.	Mr V. Kriventsev (I) Mr G. Martinez-Guridi (I)
11:20	Proliferation Resistance and Physical Protection	
11:20	GIF PRPPWG Activities and Collaboration Perspectives with the IAEA	Mr K. Hori (G) Mr G. Cojazzi (G)
11:40	INPRO Activities on Proliferation Resistance	Mr J. Phillips (I)
11:50	New Safeguards-by-Design Working Group	Mr J. Whitlock (I)
12:00	<i>Lunch break</i>	
13:30	Session V: GIF-IAEA Cooperation Matrix	
13:30	Review of Current Status of the Cooperation Matrix, Priorities and Responsibilities	All
Note:	<i>Subject owners should have discussed and already updated the IAEA-GIF Cooperation Matrix before this session.</i>	
15:10	Session V: Closing session	
	Closing remarks	
	- IAEA	Ms C. Spitzer (I)
	- GIF	Mr H. Kamide (G)
15:30	<i>Meeting adjourned</i>	

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