GIF 2019/2020 Annual report
08th July 2020,
Virtual meeting

Gilles RODRIGUEZ
CEA – GIF Technical Director
Outline

- GIF organisation – governance
- Technical Secretariat organisation
- Update on status of R&D arrangements (systems, projects)
- GIF Activities
- GIF publications:
  - Task Force activity:
    - TF on R&D infrastructures
    - TF on E&T– webinars
    - TF on advanced manufacturing and materials engineering
- Next EG/PG meetings
Generation IV International Forum (GIF) governance structure (2020)

GIF Chairman
Hideki KAMIDE, Japan

Vice-Chairs
Alice CAPONITI, USA, Vice Chair, (Regulatory issue)
Sylvestre PIVET, France, Vice Chair, (Market issue)
Jong Hyuk BAEK, Korea, Vice Chair, (R&D Collaboration)

Policy Secretariat
Policy Director
Nobuchika KAWASAZAKI
Japan

Technical Director
Gilles RODRIGUEZ
France

Technical Secretariat
NEA

GIF Secretariat
Chief of Staff
Nobuchika Kawasaki
Masahiro Nishimura
Japan

GIF Secretariat
Support Team
Kyoko Mukaida, Japan
Katsunori Ishii, Japan
Hiroshi Taninaka, Japan
Kazunori Hirao, Japan
### GIF members’ involvement in Gen IV systems R&D (As of Jan 2020)

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- ●: signatory of System Arrangement
- ○: signatory of Project Arrangement
- ▲: signatory of MoU
## Arrangements (May 2020)

| Arrangement | Effective since | AUS | CA | EU | FR | JP | CN | KR | ZA | RU | CH | UK | US |
|-------------|----------------|-----|----|----|----|----|----|----|----|----|----|----|----|----|
| VHTR SA     | Extended       | X   | X  | X  | X  | X  | X  | S  | X  | X  | X  | X  |    |    |
| HP PA       | 19-Mar-08 / Ext| X   | X  | X  | X  | S  | X  | O  | S  | X  |    |    |    |    |
| FFC PA      | 30-Jan-08 / Ext| X   | X  | X  | X  | X  | X  | S  | X  |    |    |    |    |    |
| MAT PA      | 30-Apr-10 / Ext| X   | S  | X  | X  | X  | X  | X  | S  | X  |    |    |    |    |
| CMVB PA     | Prov – PP ready| P   | P  | P  | P  | P  | P  | O  | S  | P  |    |    |    |    |
| SFR SA      | Extended       | X   | X  | X  | X  | X  | X  | X  | X  |    |    |    |    |    |
| AF PA (II)  | 18 Apr 2018    | X   | X  | X  | X  | X  | X  | X  | O  | X  |    |    |    |    |
| GACID PA    | 27-Sep-07 / Exp.| X   | X  |    |    |    |    |    | X  |    |    |    |    |    |
| CDBOP PA    | 11-Oct-07 / Ext.| O   | X  | X  | S  | X  | S  | S  | O  | X  |    |    |    |    |
| SO PA       | 11-Jun-09 / Ext.| X   | X  | X  | X  | X  | X  | O  | S  |    |    |    |    |    |
| SIA PA      | 22-Oct-14      | X   | X  | X  | X  | X  | X  | O  | X  |    |    |    |    |    |
| SCWR SA     | Extended       | X   | X  | X  | X  | X  |    |    |    |    |    |    |    |    |
| M&C PA      | 6-Dec-10       | X   | X  | O  | X  |    |    |    |    |    |    |    |    |    |
| TH&S PA     | 5-Oct-09 / Ext  | X   | X  | O  | X  |    |    |    |    |    |    |    |    |    |
| SIA PA      | Provisional    | P   | P  | P  | P  |    |    |    |    |    |    |    |    |    |
| GFR SA      | Extended       | X   | X  | X  |    |    |    |    |    |    |    |    |    |    |
| CD&S PA     | 17-Dec-09 / Ext.| X   | X  |    |    |    |    |    |    |    |    |    |    |    |
| FCM PA      | Prov. PA ready | P   | P  | P  |    |    |    |    |    |    |    |    |    |    |
| LFR MOU     | no limit       | X   | X  | X  | X  | X  | X  |    |    |    |    |    |    |    |
| MSR MOU     | SA under devel  | X   | X  | X  | X  | O  | O  | O  | X  | X  |    |    |    |    |

X = SIGNATORY  P = PROVISIONAL PARTICIPANT  O = OBSERVER  S = SIGNATURE PROCESS ONGOING

Signed recently  To be extended

Exp: expired / Ext: extended
GIF Activities: COVID-19 constraints

• The COVID-19 have change a lot the way of working in the GIF community. But we took some opportunities to change (and sometimes improve) the GIF way of working.

• It proves that we can find a lot of agility in the GIF members:
  – Largely use of Video meeting (before COVID it was only audio meetings)
  – The GIF Feb workshop was recorded live and could be seen by Chinese colleagues
  – Innovative way to realize PMB meetings by OECD/TS (Video in two steps)
  – Centralized way of sharing the GIF documents via the GIF Website (GIF Website large improvements)
Some General Information = Technical Progress

- Even if the COVID-19 is still impacting our daily work, we try to Stay on Course of the GIF Program Of Work
  - The GIF 2019 Draft Annual report is published in time. It has been harmonized and slightly reorganized
  - The GIF 2018 Symposium proceeding have been published
  - The RDTF Final report has been submitted for final review and we draw the synthesis of the corresponding Workshop
  - There are many on-going actions carried out by the SSC, PMB, WG and TF members. Some of them:
    » Complete reformatting of the GIF Website
    » A position paper on GENIV reactor flexibility
    » A chapter on GIF flexibility for the NICE initiative
    » PRPP White paper review
    » Request from WGSAR on fuel qualification by the end of July
Some General Information = Objectives vs Achievements

- For the months to come, many challenges were listed in Oct 2019:
  - **Success in the relationships with SMR Vendors** => the Feb workshop was a success we need to pursue this initiative.
  - **Put in practice some of the proposed actions in the program plan** => some of them were already implemented. For some other I need EG /PG position
  - **Start efficiently the process of Knowledge Capitalization** => it is progressively realized between the TD/PD/TS. More presentation in Oct 2020
  - **Smart change of the GIF communication** => Website, Newsletter,…
  - **GIF WEBINARS are becoming must-see events** => see Patricia presentation
Some General Information = In the GIF Agenda

• **Coming meetings & event:**

  • *We plan to hold a GIF stand at the WNE 2020 (Paris) => postponed to Dec. 2020*

• **2020 : GIF is twenty years old ! => we are preparing specific events during the Oct. 2020 EG/PG meeting in Amboise**
Some General Information: the next EG meeting

• 2020: GIF is twenty years old!
  – We will reorganize the EG/PG Agenda
    » More dynamism, more interactive, less overlapping between EG & PG meetings

• We are preparing several events during the Oct. 2020 EG/PG meeting in Amboise:
  – An end of afternoon tour and dinner at the Clos Lucé Castle (the home of Leonardo Da Vinci)
  – We plan to invite some recently retired people
  – We plan to organize an extra lecture from a non GIF member
  – …
2019 Annual Report & GIF Symposium

Annual Report 2019:
- Soon available on GIF website
- No paper copy

GIF Symposium 2018:
- The Proceedings have been published in May 2020
- Available of the GIF Website
- No paper copy
Task Force on Advanced Manufacturing and Materials Engineering

- TOR of the interim Task Force on Advanced Manufacturing and Materials Engineering approved by PG at its May 2018 meeting.
- Decision to transform it into a TF in Oct. 2019
- Large success of the related Workshop in Feb. 2020
- Decision to pursue this Workshop meeting every year
Task Force on Research Infrastructures

- TOR of the TF approved by the PG in Cape Town (Oct 2017)
- 1st meeting took place in Feb 2018, hosted by NEA
- Chair: R. Garbil from EURATOM / Co-Chairs: A. Vasile (then F. Serre) from France and S. Kim from Korea
- Objectives: promote synergies between systems, enhance utilisation of research facilities, identify key research infrastructures that are needed (and may not exist)
- Regular TF meetings by phone conference
- Paper presented at 4th GIF Symposium
- TF Final Report v0 finished (May 2020) => TF Final report v1 (Oct 2020)
- Two-day workshop on experimental needs (including from private sector companies developing advanced reactors) planned week 17-21 Feb 2020
Conclusions of the Feb 18-20 GIF Workshops

A great success!
- Efficient Organization
- Good balance between public & private
- Frank discussions, positive participation

Participants:
Moderator: Stefano Monti (IAEA)
- Lou Martinez Sancho, CIO KAIROS Power
- David Leblanc, Terrestrial Energy
- Robin Manley, Ontario Power Cooperation
- Raj Iyengar, NRC Office of research
- Dominique Hittner, USNC
- Richard Wain, Rolls Royce
- Frederik Vitabäck, GE-Hitachi
- Arkady Karneev, Rosatom
Conclusions of the Feb 18-20 GIF Workshops

A great success!
Initiative in the diffusion process
Initiative in the output process

See the Workshop, keep it alive:
Recording from the GIF Website
Timing Ease the viewing
EG/PG meetings: 19-23 Oct. 2020, Amboise - France

Organised by OECD/NEA

The draft agenda is still under preparation !!

It will be produced during July