



Horizon 2020 Programme

Gemini Plus

Research and Innovation Action (RIA)

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Proceedings of the final GEMINI+ workshop

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Summary

This deliverable presents the proceedings of the final GEMINI+ workshop held on November 25th, 2020. This open workshop was aimed to present and disseminate the results generated by the GEMINI+ Project, in particular research on the contribution that High Temperature Reactors (HTRs) may bring to deep decarbonisation towards focus on a real potential first demonstration project in Poland. The scope includes all actions taken in order to complete pre-event tasks, logistic support during the workshop and post-event actions.

Approval

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Abbreviations

HTRs	High Temperature Reactors
MEP	Member of the European Parliament
NC2I	Nuclear Cogeneration Industrial Initiative
SNETP	Sustainable Nuclear Energy Technology Platform

Summary

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The scope includes all actions taken in order to complete pre-event tasks, logistic support during the workshop and post-event actions.



1 The Final Workshop preparation

This following section outlines all the actions taken by the organisation team during the event preparation phase.

1.1 Defining the event format

1.1.1 Covid-19 impact

The GEMINI+ Final Workshop was originally planned on the 25th of November in Brussels to achieve a significant impact on the audience, especially given the participation of Minister Kurtyka. Unfortunately, the Covid pandemic prevented the organisation team from holding the event physically on this date.

Two options were then envisaged:

- Postpone the event to spring 2021
- Maintain the initial date of the event but hold it virtually.

The two possibilities were analysed and a risk assessment was done.

Option 1 was a best option to guarantee the long-awaited impact of the event but it also raised the question of the status of the pandemic in spring 2021 as it may well still be there. A physical event in the first semester of 2021 might be cancelled or postponed again.

Option 2 seemed to be the safest option even though a virtual event may be less “convincing” than a physical event. Option 2 would also enable to gather more participants.

After analysing both alternatives, discussions led in favour of Option 2.

1.1.2 Workshop format and online tool

One of the first actions was to define the format of the online workshop and the online tool that would be used. To do so, several online meetings were organised several months before the event with the organisation team and the moderators.

Based on the needs expressed by the moderator of the event, different technical criteria were defined:

- Attendees shall be directed first in a virtual lobby that allows the organisation team to admit the entry;
- Only speakers and the moderator shall be able to speak, all other attendees shall be muted during the entire event duration;
- The speakers and the moderator shall be able to interact freely during the whole panel time slot;
- Questions of the audience shall be possible only through the chat box
- A person from the technical support team shall filter and group the questions, and ask them when requested by the moderator;
- No possibility shall be given to the attendees to unmute themselves.

To provide a relevant tool for this webinar format, it was decided to use Microsoft Teams as it met all the criteria described above.



1.1.3 Final Workshop Agenda

**High Temperature Reactors for deep decarbonisation: the Polish example
From the Gemini+ research project towards demonstration**

Brussels – 25 November 2020

8:45 Introduction: Objective of and Rules for the meeting (Chair - Organizer)			
Opening Session: Policy Perspectives			
9:00 Polish Minister for Climate & Environment M. Kurtyka: COP perspectives for the Energy Transition Director-General for Energy D. Juul-Joergensen: The EU Green Deal Polish MEP & Vice Chair ITRE Z. Krasnodebski: Implementing the EU Green Deal			
# Time Item Panellist			
Panel 1: The Global Picture: the role of nuclear energy in Europe to fight climate change			
1	9:30	Decarbonising Energy: electricity and heat: IEA Reports on Nuclear and Hydrogen (05/2019) Main outcomes of the EU In-Depth Energy Review (06/2020)	L. Varro
2	9:50	Role of Nuclear Energy in decarbonising Europe	Y. Desbazeille
3	10:10	A Member State view: The Polish nuclear programme Large Power Reactors and HTRs	J. Sobolewski
Panel 2: High Temperature Reactor – Technical and Economic aspects			
4	10:30	Main characteristics of HTR - How it works - Safety & waste issues related to HTR	D. Hittner
5	10:50	International Developments of HTR (GIF) HTR for Hydrogen - HTTR	M. Fütterer
6	11:10	Analysis of HTR economics	H. Paillere
Panel 3: Financing HTR in Poland			
7	11:30	Structure of a potential HTR demonstration project in Poland	G. Wrochna
8	11:50	Financing Nuclear Innovation	M. Deffrennes R. Garbil P. Manolatos
9	12:10	Q/A and Concluding remarks	G. Wrochna M. Deffrennes
12:30 - Adjourn			

L Varro is Chief Economist at IEA; Y Desbazeille is DG Foratom; G Wrochna is Vice Minister for Science and Education in Poland; D Hittner is lead expert in HTR technologies retired Framatome; M Fütterer is European Commission Official (JRC) and Chair of the VHTR System in the Gen IV International Forum; H Paillere is Head Planning and Economic Studies at AIEA; J Sobolewski is Plenipotentiary Director for HTR at the Polish National Centre for Nuclear Research and Member of the Euratom Scientific and Technical Committee; M Deffrennes is retired Official European Commission and was leading the Nuclear Innovation NI2050 Initiative at the NEA, R Garbil is Head of Section at DG RTD European Commission, P Manolatos is project officer GEMINI+ European Commission DG RTD

Figure 1: Agenda

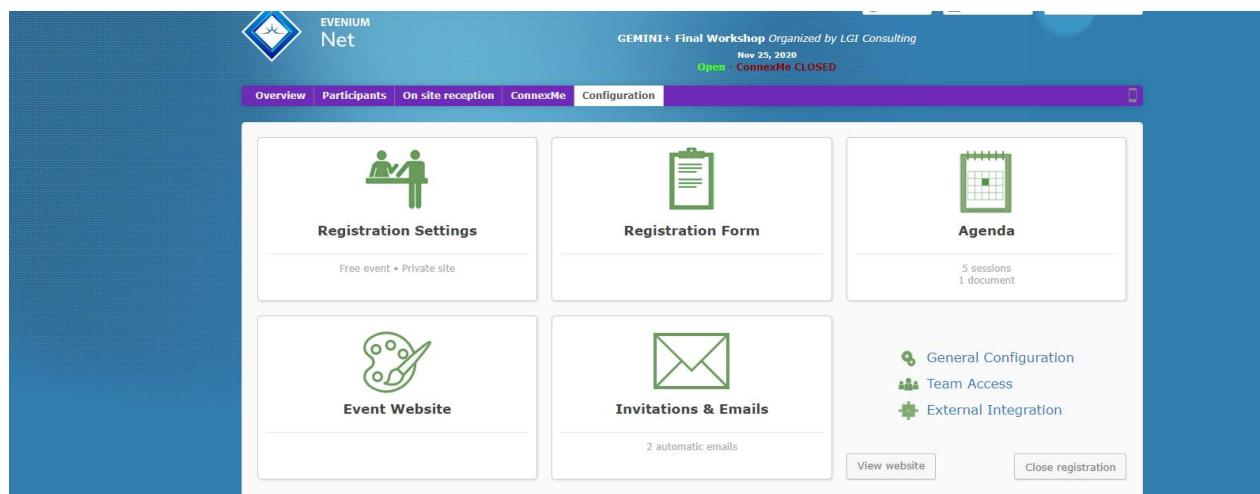


1.2 Management of the participants

1.2.1 Registration platform

In order to follow-up with the attendees participation, a registration platform was set up for the event. The platform used was Evenium - <https://evenium.net/>. It allowed the organisation team to manage different aspects of the registration process – see figure below

- Registration settings
- Registration form
- Agenda
- Event website
- Invitations & Emails



The screenshot shows the Evenium platform interface for the "GEMINI+ Final Workshop". The top navigation bar includes tabs for Overview, Participants, On site reception, ConnexMe, and Configuration. The Configuration tab is active. The main area displays five management tools:

- Registration Settings**: Shows a green icon of two people, indicating a free event and a private site.
- Registration Form**: Shows a clipboard icon.
- Agenda**: Shows a calendar icon, indicating 5 sessions and 1 document.
- Event Website**: Shows a paint palette icon.
- Invitations & Emails**: Shows an envelope icon, indicating 2 automatic emails.

On the right side, there are three configuration options: General Configuration, Team Access, and External Integration. Buttons for "View website" and "Close registration" are also present.

Figure 2: Registration platform



The registration page visible by the invitees was the following:

GEMINI+ Final Workshop

Wed November 25 2020, from 8:45 am to 1:00 pm

To mark the end of the GEMINI+ project which was launched in September 2017, join the GEMINI+ Final Workshop organised in Brussels, on 25 November. This half-day event will provide a perspective on the contribution that High Temperature Reactors (HTRs) may bring to deep decarbonisation besides focus on a real potential first demonstration project in Poland.

Due to Covid-19 pandemic, the GEMINI+ Final Workshop will be completely held online.

Registration

[Log out](#)

General Admission

Quantity

Price

1

Free

[Next ►](#)

Agenda

[Search](#)

[Expand Agenda](#)

Wednesday

Nov 25

8:45am Introduction

9:00am Opening Session: Policy Perspectives

9:30am Panel 1: The Global Picture: the role of nuclear energy in Europe to fight climate change

10:30am Panel 2: High Temperature Reactor – Technical and Economic aspects

11:30am Panel 3: Financing HTR in Poland
12:30pm

GEMINI+

When

Wed November 25 2020, from 8:45 am to 1:00 pm

[Add to my calendar](#) ▾

[About the organizer](#)

LGI Consulting

[Contact the organizer](#)

Figure 3: Registration page

1.2.2 Targeted audience

The main target groups of GEMINI+ Final Workshop were:

- The International and European Scientific Community in research activities on cogeneration and HTGR technology
- The Nuclear industry
- EU policymakers
- New generation of engineers
- Researchers and experts

1.2.3 Invitations

The invitation was drafted in two versions: one for the general audience and the other for VIPs invitees.

In the first invitation, attendees were invited to register to the event on the registration page created which allowed the organisation team to control who attends the event. It is only when they registered that the participants received the link to join the event.



In the second invitation, the link to join the meeting was given directly. No process of registration was needed. This specific invitation concerned the speakers, the moderator, and the VIPs (Director-General for Energy D. Juul-Joergensen, Polish Minister for Climate & Environment M. Kurtyka, Polish MEP & Vice Chair ITRE Z. Krasnodebski) invited to the workshop.

First version:

Dear colleague,

At a time when the challenges related to climate change become a top priority matter in the EU, the H2020 GEMINI+ project developed a solution for contributing to the objectives of the Green Deal by decarbonising the CO₂ emissions of industry.

On November 25th morning, GEMINI+ will organize an online final workshop aiming to present the project outputs after three years of intense research and development, from the Gemini+ research on the contribution that High Temperature Reactors (HTRs) may bring to deep decarbonisation towards focus on a real potential first demonstration project in Poland.

Discussions will be organised around three panels:

- Panel 1: The Global Picture: the role of nuclear energy in Europe to fight climate change
- Panel 2: High Temperature Reactor – Technical and Economic aspects
- Panel 3: Financing HTR in Poland

GEMINI+'s consortium is delighted to count among the speakers Mr Michał Kurtyka, Polish Minister for Climate & Environment, and Mr Grzegorz Wrochna, Vice Minister for Science & Education!

You will find more information on the agenda attached and on the GEMINI+ [Website](#).

For registration, please click [here](#)

The connection details to attend this online event will be communicated in the registration confirmation email.

We are looking forward to welcoming you to this event!

Kind regards,
GEMINI+ coordination

** This email is sent to you by LGI Sustainable Innovation, a GEMINI+ partner, in charge of supporting the coordination of the GEMINI+ project. In case you do not wish to receive any other email regarding this event, you shall notify your request by return email.*



Second version:

Dear colleague,

At a time when the challenges related to climate change become a top priority matter in the EU, the H2020 GEMINI+ project developed a solution for contributing to the objectives of the Green Deal by decarbonising the CO₂ emissions of industry.

To mark the end of the GEMINI+ project which was launched in September 2017, join the **GEMINI+ Final Workshop organised online, on the 25th of November morning**.

During this half-day, GEMINI+ partners will present the project outputs after three years of intense research and development, from the Gemini+ research on the contribution that High Temperature Reactors (HTRs) may bring to deep decarbonisation towards focus on a real potential first demonstration project in Poland.

Discussions will be organised around three panels:

- Panel 1: The Global Picture: the role of nuclear energy in Europe to fight climate change
- Panel 2: High Temperature Reactor – Technical and Economic aspects
- Panel 3: Financing HTR in Poland

GEMINI+'s consortium is delighted to count among the speakers Mr Michał Kurtyka, Polish Minister for Climate & Environment, and Mr Grzegorz Wrochna, Vice Minister for Science & Education!

You will find more information on the agenda attached and on the GEMINI+ [Website](#).

You will be able to join the event by clicking here: [Join GEMINI+ Final Workshop](#)

We are looking forward to welcoming you to this event!

Kind regards,
GEMINI+ coordination

** This email is sent to you by LGI Sustainable Innovation, a GEMINI+ partner, in charge of supporting the coordination of the GEMINI+ project. In case you do not wish to receive any other email regarding this event, you shall notify your request by return email.*

Invitations were communicated through different channels:

- Invitations sent by email by LGI on behalf of GEMINI+ coordination
- Invitations sent through FLEXX SNETP (an online collaborative workspace) to all the FLEXX users as the GEMINI+ project was launched by the European Nuclear Cogeneration Industrial Initiative (NC2I) that is one of the three pillars of SNETP
- Communication on GEMINI+ project Website – see figure below

[ABOUT](#) [GEMINI +](#) [NEWSROOM](#) [RESOURCES](#) [PARTNER AREA](#)

GEMINI+ Final Workshop

November 25



To mark the end of the GEMINI+ project which was launched in September 2017, join the GEMINI+ Final Workshop organised online, on 25 November!

This half-day event (8:45 am to 1 pm) will provide a perspective on the contribution that High Temperature Reactors (HTRs) may bring to deep decarbonisation besides focus on a real potential first demonstration project in Poland.

[Registration and agenda available here.](#)

Figure 4: Screenshot of GEMINI+ Website

The invitation was sent a month before the event and a reminder was sent ten days before the event. The registered participants also received a last reminder the day before the event from the registration platform with all the information on how to join the event.

1.3 Coordination of the speakers and moderators

The organisation team contacted the speakers and the moderator the week before the event for the following purposes:

- To provide them one again with the link to join the event
- To remind them of the time scheduled for their presentation
- To inform them about the event being recorded
- To communicate them good online practices
- To offer them support for sharing their presentations during the event.

To ensure a smooth running of the event, it was decided that all the presentations would be centralized in one place by the support team:

- To provide a back-up support in case a speaker would experience some technical issues
- To be able to share the presentation for the speaker if he/she preferred



2 Technical support during the final Workshop

2.1 Roles allocation

The organisation team was in charge of hosting the whole event, which implied first to define all the settings of the online tool (Microsoft Teams) according to the Webinar conditions chosen.

Then, different roles were distributed before the event to ensure proper proceedings and during the event each person of the organisation team had several assignments to fulfil:

- Technical support for managing the chat and the audience questions
- Technical support for managing the presentations of the speakers
- Technical support to control the entrance to the event
- Chairman role

2.2 Collecting the event data

One of the actions during the event was also to collect the attendance data in order to be able to measure the success of the event.

The event was also recorded to keep track of the main outputs of the workshop – the speakers' approval was received before the event.

3 Post-event actions

3.1 Communication and dissemination

All the presentations were published on the GEMINI+ Project Website in order to allow the GEMINI+ community to have access to the data presented during the event.

<http://www.gemini-initiative.com/gemini-final-workshop/>

Communication on social media (Twitter) was also carried out in order to disseminate the project results to the general public and the target audiences.

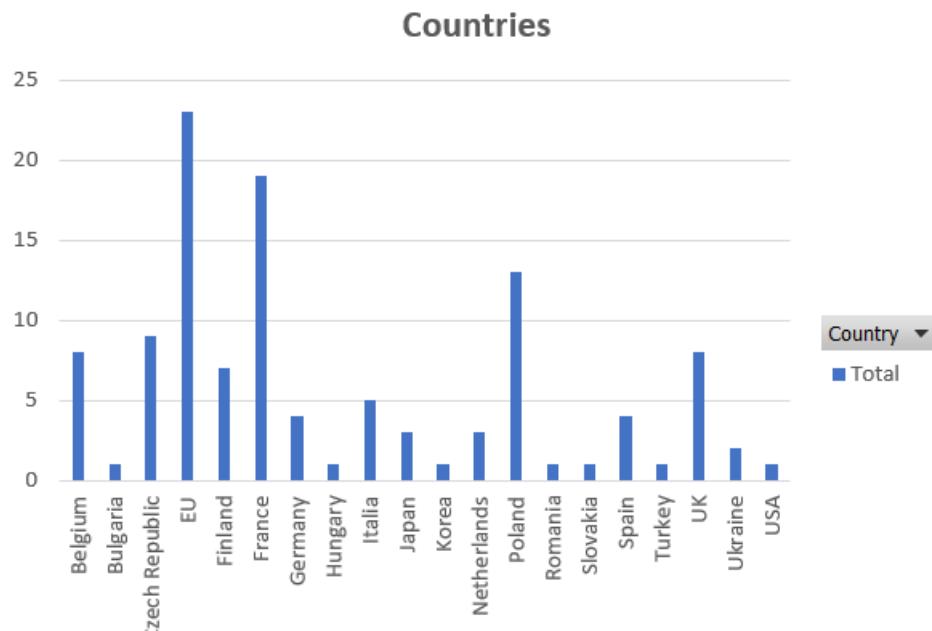
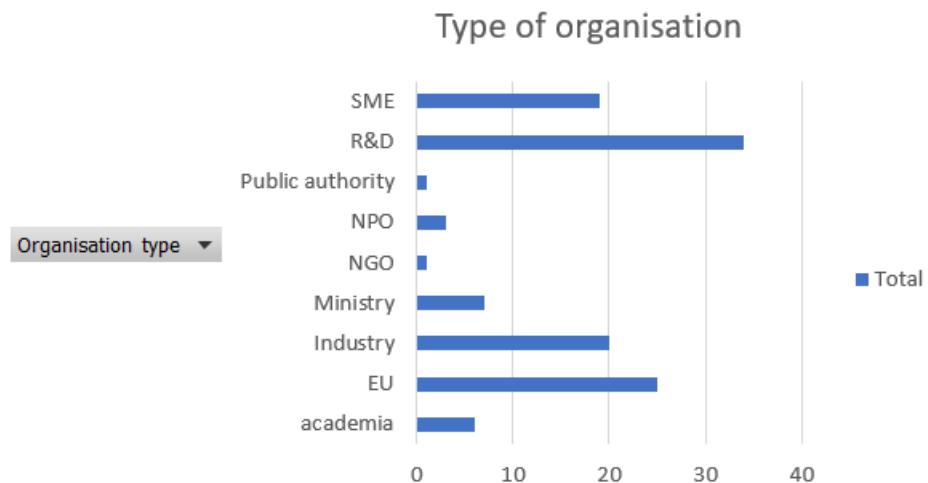
3.2 The event assessment

The data collected during the event was used to assess the event performance in terms of attendance.

Here are key performance indicators selected to measure the event success:

Number of registrations: 119 participants

Number of attendees during the event (average): 74 participants – with a number of attendees stable during the event


Number of registered participants

Figure 5: Participation per country
Number of registered participant per organisation

Figure 6: Participation per organisation type

This participation turnout was judged by the organising team much higher than if the event had taken place physically.