

SNETP Report

June 2011 – November 2012

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1. Introduction

This third Annual Report of the Sustainable Nuclear Energy Technology Platform (SNETP) covers the period from June 2011 until November 2012. The report is a required deliverable of the SMILE project of the 7th Euratom Framework Programme (the follow up of the SNETP Office of the 6th Euratom FP), which corresponds to the official SNETP Secretariat.

This period witnessed the consolidation of SNETP in the European Framework. The strategic documents were created during the SNETP-Office project and SNETP started with the coordination of its implementation.

Beginning of 2012 saw the achievement of another major SNETP milestone: the launch of NUGENIA, Nuclear GENERation II & III Association, as an international non-profit association based in Brussels. NUGENIA integrates NULIFE, SARNET and the SNETP Working Group Gen II & III

Moreover, throughout this period the Platform membership continued to grow, from 95 members in May 2011 to 111 in November 2012.

2. Organisation and structure

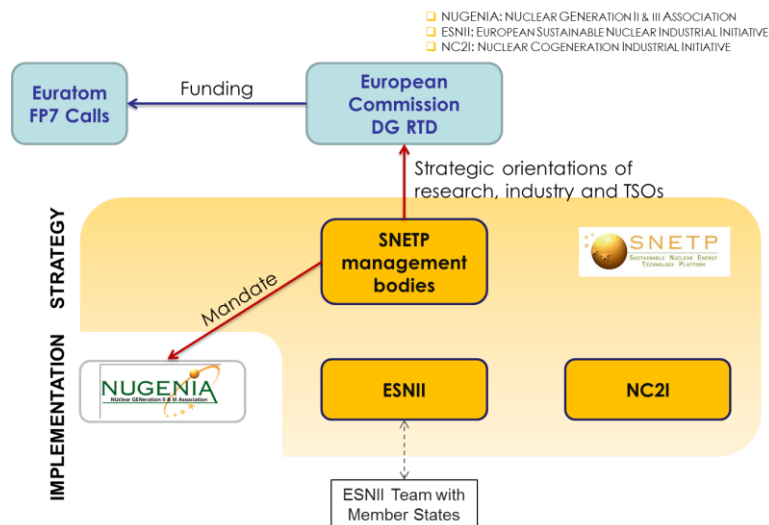
During this period SNETP was in charge of the prioritisation and organisation of the European R&D required to achieve the ambitious goals of nuclear fission development, in particular with respect to the SET Plan.

By March 2012, SNETP gave a mandate to NUGENIA to act as the body in charge of coordinating at EU level the implementation of the R&D within its technical scope: GEN II&III R&D as described in the Strategic Research Agenda (SRA) of SNETP, and related cross-cutting topics. This evolution of the WG Gen II&III of SNETP to NUGENIA, as an international association, is described in the picture below.

The Platform '3-pillar' vision is still maintained:

- ESNII TF: European Sustainable Nuclear Industrial Initiative Task Force
- NUGENIA: NUclear GEneration II&III Assotiation (mandated by SNETP)
- NC2I TF: Nuclear Cogeneration Industrial Initiative Task Force

The groups' mission is to define their priorities, plan their implementation and roadmaps and propose an organisation involving the relevant stakeholders.



After the Fukushima accident, the Governing Board decided to create an ad-hoc group, the Fukushima Task Force to prepare a report on the needs on research after the conclusions of the accident. Once the document published the group will be 'dormant' (to be reactivated when the time comes to update this document).

During this period the Governing Board decided to create a new Editorial Board in charge of the update of the Strategic Research and Innovation Agenda, published in 2009. The new version will be ready in February 2013. Also the ETKM group has been reactivated. The current organisation structure is described in the picture below:

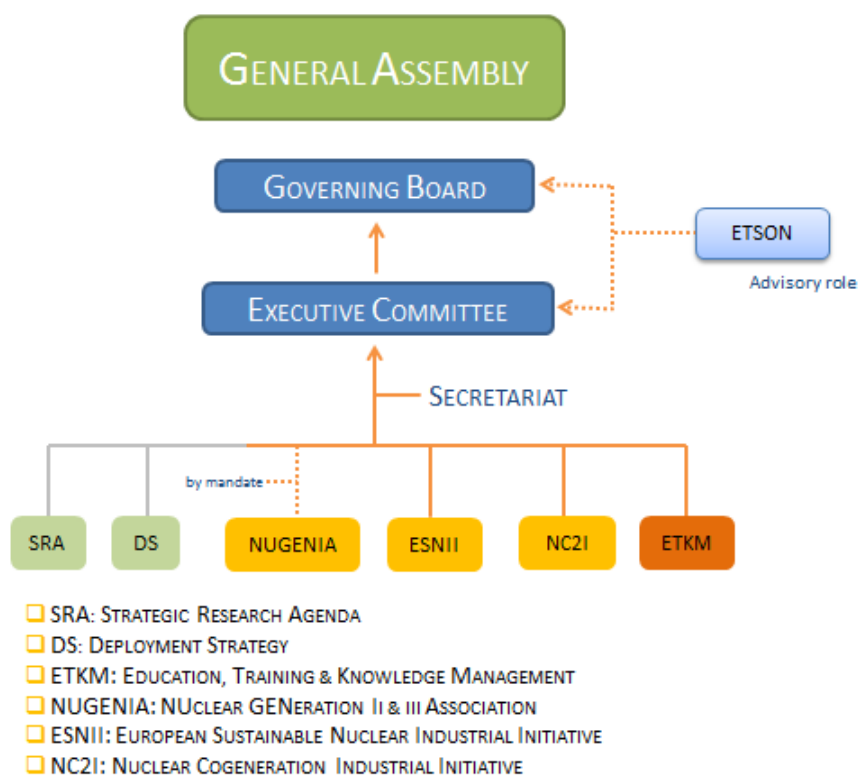


Figure 1: Organisation chart of the SNETP, as of October 2012

3. Working Groups

Editorial Board SRIA

Two appendices of the SRA were edited, after the release of the SRA 2009: the first, on thorium fuel cycle, was published on December 2010 on the SNETP public website; the second, on molten salt reactors, was published on January 2012.

As it was mentioned in the SRA 2009, it is a living document, open for revision every 3 to 4 years. As the first edition was issued on May 2009 and the current vision of nuclear research in Europe has experienced a significant change since then, the SNETP Governing Board on its meeting of 21st March decided to update this document.

Following this decision, the Governing Board created an Editorial Board to prepare the second edition of the Strategic Research Agenda (SRA).

The SRA Editorial Board, taking into account the importance of innovation in the SNETP research, decided to name this new version: "Strategic Research and Innovation Agenda" (SRIA)

It will be released on the European Nuclear Symposium on 26th and 27th February 2013. The document is currently under preparation, but has already involved the contributions of all the WG in SNETP. A public consultation and the final review process have to be done.

ETKM WG – Education & Training

The WG on Education, Training and Knowledge Management has been 'dormant' during a long period of the period covered by this report. The Governing Board, after its meeting on 21st March 2012 asked the ETKM WG to define a clear action plan and to define their objectives.

The group presented an action plan on the next Governing Board meeting on 4th October 2012 and it was approved. The action plan tries to consolidate all the recommendations present in the most recent international reports on E&T and obtain defined actions and the plan to be implemented with the stakeholders involved.

ESNII TF – Advanced nuclear reactors

After its formal launching in the SET Plan Conference on 15-16 November 2010, the ESNII TF has evolved in several aspects.

- The Task Force started with 13 members and has now 22. The balance between industry and research is still present.
- Some formal governance and organisation changes took place: The ESNII Executive Board, with representatives of the 4 ESNII Projects was created, to facilitate the management of the Task Force.
- The implementation plan 2010-2012 was defined and published. It will be updated at the end of 2012.
- The criteria for the Prioritization of the 4 ESNII Projects were settled during the ESNII TF meeting no.14. The exercise of prioritization was also done during this period. The updated objective of ESNII is to "Design, licence, construct, commission and put into operation before 2025 the Sodium Fast Reactor Prototype reactor, called ASTRID and the flexible fast spectrum irradiation facility MYRRHA". The prioritization was:
 - ASTRID (SFR) Reference technology
 - MYRRHA and ALFRED (LFR) short term alternative
 - ALLEGRO (GFR) long term alternative

NUGENIA - Ancient GEN II/III WG

NUGENIA was formally constituted on March 2011, from the ancient WG Gen II/III, NULIFE and SARNET. NUGENIA has been established as a natural progression of the NULIFE mission (it was envisaged to create NULIFE Association / Institute) and as a fruit of close collaboration with the SNETP and SARNET. The legal entity of an association was chosen after a careful review of all European possibilities. The Association being an independent legal entity is open to all nuclear stakeholders endorsing the Statutes. All members of SNETP are welcome as are international and non-European organisations.

The SNETP Governing Board officialised its mandate to NUGENIA to act as the body in charge of coordinating at EU level the implementation of the R&D within its technical scope: GEN II&III R&D as described in the Strategic Research Agenda (SRA) of SNETP, and related cross-cutting topics.

The mandate full document and more information on NUGENIA is available on www.nugenia.org

NC2I TF - Cogeneration

This period witnessed the formal constitution of the WG Nuclear Cogeneration Industrial Initiative (NC2I) by the end of 2012. The NC2I TF gathers energy intensive companies, technology developers, utilities, engineering companies, universities and research centres. Additional industrial representatives from oil refining, chemical clusters, industrial gases, metallurgy have expressed also an interest for nuclear cogeneration. The objective of NC2I is the commissioning within 10 years of a nuclear cogeneration prototype.

4. Secretariat SNETP

From June 2011 to November 2012, the administrative work of the Platform has been carried out by the EC-funded Secretariat, with the Paris-based consultancy LGI as Co-ordinator assisted by CEA, E.ON, FORATOM and UJV Rez.

The Secretariat has been very active in providing support to the SNETP activities by:

- organising formal meetings and writing the minutes
- updating and operating the SNETP private and public websites
- handling membership application and other electronic correspondence
- arranging publication of Platform reports
- creating communication materials (newsletters, newflashes, factsheets, etc)
- representing SNETP at numerous international events

Last but not least, the Secretariat also implemented at working level the strategy of SNETP to interact with various other entities or bodies, such as EC, ENEF, ESFRI, the SET-Plan groups or targeted European Technology Platforms.

Annex 1 Calendar of SNETP Meetings and Key events 2011-2012

Date	Event	Location
2011		
1 June	12 th ESNII TF meeting	Brussels
22 June	1 st Nuclear Cogeneration Industrial Initiative (NC2I) Task Force meeting	Warsaw
27 June	1 st Fukushima Task Force meeting	Prague
29-30 June	11 th Executive Committee meeting	Paris
6 July	4 th Gen II & III TWG meeting	Milano
19 September	12 th Executive Committee meeting	Amsterdam
22 September	2 nd NC2I Task Force meeting	Berlin
28 September	13 th ESNII Task Force meeting	Paris
5 October	8 th Governing Board meeting	Ljubljana
26 October	3 th ESNII Team meeting	Brussels
14-15 November	5 th GEN II III TWG meeting	Brussels
28 November	13 th ESNII Task Force meeting	Warsaw
29-30 November	3 rd General Assembly	Warsaw
2012		
11–12 January	1 st NUGENIA Executive Committee meeting	Paris
30–31 January	13 th Executive Committee meeting	Karlsruhe
13 March	3 rd NC2I TF meeting	Paris
16 March	ESNII Executive Board meeting	Paris
20 March	1 st NUGENIA General Assembly	Brussels
21 March	9 th Governing Board meeting	Brussels
26-28 March	1 st NUGENIA Plenary meeting	Budapest
4 May	14 th ESNII Task Force meeting	Paris
14-15 May	SNETP presents its stand in 7 th ENEF Plenary meeting	Bratislava
22 May	1 st SRIA Editorial Board meeting	Madrid
24 May	Secretariat meeting	Brussels
29-30 May	5 th NUGENIA Executive Committee meeting	Berlin
8 June	12 th ETKM meeting	Paris
18-19 June	14 th Executive Committee meeting	Rome
19 June	SNETP Open Day in ENEA offices - EUSEW Sustainable Energy Week event Presentations from all the SNETP parties	Rome
25 June	ESNII Conference “Advanced fission research in HORIZON 2020” Presentation of ESNII projects and status to the general public. The conference was hosted by the EESC	Brussels
17 August	13 th ETKM meeting	Paris
3-4 September	Secretariat meeting	Montpellier
3-7 September	SNETP presents its stand in the 4th International ATALANTE Conference on Nuclear Chemistry for Sustainable Fuel Cycles . D. Haas, JRC speaker in the conference introduces SNETP	Montpellier
10-11 September	3 rd ESNII Executive Committee Meeting	Brussels

15-16 November	SNETP and NUGENIA are the official associate partners and present its stand in the East Europe Nuclear Energy Summit 2012. SNETP Brochures are included in the Delegate bags. F. Pazdera and P. Kadezca are speakers in the conference	Prague
20-21 September	2 nd SRIA Editorial Board meeting	Brussels
4 October	10 th Governing Board meeting	Genoa
7 November	14 th ETKM meeting	Paris
22-23 November	15 th Executive Committee meeting	Cadarache
29 November	IGDTP Exchange meeting. F. Pazdera attends the meeting representing SNETP	Paris