

5th MDEP Conference on new reactor design activities

International Co-operation: Past, Present and Future

24-25 April 2023 | Antalya, Türkiye



Programme

Day 1: Monday, 24 April 2023

8:30-9:00: Registration

9.00-9.30: Welcome and opening of the conference

- Conference Chair, NDK President, **Zafer Demircan**, welcomes participants to the 5th MDEP Conference
- MDEP Chair, **Alexey Ferapontov**
- NEA **Director General William, D. Magwood, IV**

9.30-10.00: Keynote

Keynote Speaker: **Mr. Alparslan Bayraktar**, Deputy Minister of Energy and Natural Resources

10.00-10.30: Coffee break

10.30-12.10: Session 1 – MDEP Key Achievements and Lessons Learnt

The objective of this session is to highlight accomplishments, bottom-up approach, interactions with industry, framework, challenges and lessons learnt from all Design Specific Working Groups in MDEP especially considering these would be the final presentations from the EPR, AP1000, and APR1400. Discuss commissioning and construction experience as related to design issues and future cooperation on operating experience.

Session Coordinator: Julien Collet (ASN)

Chair: Christer Viktorsson (FANR)

Panellists:

- **Julien Collet**, ASN, MDEP phase 1 Steering Technical Committee Chair
- **Yun Ho Kim**, KHNP, APR1400
- **Guenael Le Cann**, FANR, APR1400 Working Group
- **Tapani Virolainen**, STUK, EPR Working Group
- **Mike Corletti**, Westinghouse, AP1000
- **Péter DEÁK**, HAEA, Codes and Standards Working Group

Q&A panel discussion

12.10-13.40: Lunch break

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13.40-15.10: Session 2 – International Cooperation Framework for New Designs

The objective of this session is to inform decision-making on future activities of the HRP1000 and the VVER Design Specific Working Groups. Panellists share important challenges, lessons learnt, knowledge management considerations and insights; including recommendations on a new framework as it relates to expanding the scope of activities and extending membership to embarking countries.

Session Coordinator: Janne Nevalainen (STUK)

Chair: Retfalvi Eszter (HAEA)

Panellists:

- **Adriana Politi**, HPR1000WG Chair, ARN -Summary of key MDEP activities, feedback and future perspectives
- **Mao Qing**, CGNP - Expectations from HPR1000 vendors, licensees and/or operators
- **Pei Wei**, NNSA - Regulatory practice on the FOAK HPR1000
- **Oya Özdere Gülol**, VVER Working Group Chair, NDK - Summary of key MDEP activities, feedback from members and future perspective
- **Sergey Egorov**, Atomenergoproect JSC - Russian industry benefits from MDEP and VVER WG activities and further expectations
- **Katalin Petőfi-Tóth**, HAEA - Regulatory perspective on VVER licensing

Q&A panel discussion

15.10-15.40: Coffee break

15.40-17.10: Session 3 – Global Supply Chain Management

The objective of this session is to discuss practical challenges with the global supply chain, consider industry perspective and regulatory efforts on supply chain issues.

Session Coordinator: Guenael Le Cann (FANR)

Chair: Oğuz Can (NDK)

Panellists:

- **Jeremy Hubert**, ASN, Vendor Inspection Cooperation Working Group (VICWG)
- **Moongon Lee**, KHNP - Korean Perspective on Supply Chain Management
- **Afşın Burak Bostancı**, MENR of Türkiye - Supply Chain Localisation and Skills Development in Türkiye
- **Keiji Matsunaga**, Toshiba Energy Systems Solutions Corporation
- **Nathan Paterson**, WNA -WNA Supply Chain Working Group
- **Erdem Çakır**, NDK - Certification of Nuclear Safety Equipment Manufacturers

Q&A panel discussion

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17.10-17.25: Keynote

IAEA Deputy Director General **Mikhail Chudakov** - NHSI Initiative of IAEA

17.25-17.40: Closing – Day 1

The Conference Chair will provide a brief summary of Day 1 and discuss the expectations for the Topical and Panel Discussion Sessions on Day 2.

18.00: Cocktail Reception

Day 2: Tuesday, 25 April 2023

8.30-9.00: Welcoming coffee

09.00-10.00: Session 4 – Considerations for Expanding International Cooperation

Session Coordinator: Anil Bekir BÖLME (NDK)

Chair: Orion Phillips (NNR)

Keynote speakers:

- **Irina Sokolova**, Rostechnadzor - Regulatory perspective on working with new embarking countries
- **Sergey Egorov**, Atomenergoproect JSC - Design evolution and changes during the construction

10.00-10.30: Coffee break

10.30-12.00: Session 4 – Considerations for Expanding International Cooperation (Cont.)

The objective of this session is to provide a strategic look (beyond 2023) considering a new audience for MDEP. Perspective from MDEP members on expanding international cooperation to include new embarking countries and preparations for regulatory oversight, as well as to hear on their feedback on and expectations from the Programme.

Session Coordinator: Anil Bekir BÖLME (NDK)

Chair: Orion Phillips (NNR)

Panellists:

- **Christer Viktorsson**, FANR - Perspective on experience setting up new nuclear energy programmes
- **Satyajit Ghose**, BAERA - Perspective from Bangladesh (BAERA) considering VVER designs

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- **Uzman Habib**, PNRA - Regulatory perspective on new nuclear programmes in Pakistan
- **Yusuf Ceylan**, NÜTED - Competence development to support the regulatory body
- **Uwe Stoll**, GRS - Supporting embarking countries at NPP construction stage

Q&A panel discussion

12.00-13.30: Lunch break

13.30-15.30: Session 5 –Challenges for New Technologies

The objective of this session is to discuss what is next for regulators in terms of international collaboration for new reactor technologies, Small Modular Reactors (SMR), and advanced reactors. Panellists could also share perspectives on anticipated policy issues, harmonisation goals, challenges for the regulatory bodies related to the new technologies, e.g.: resources and training, regulations, standards, new materials and fuel and supply chain for them, FOAK, etc.

Session Coordinator: Denis Mistryugov (SEC NRS)

Chair: Abel Julio Gonzalez (ARN)

Panellists:

- **Regulatory perspective**
 - **Tereza Abrman Marková**, SUJB – NUWARD (tri-literal perspective)
 - **Douglas Miller**, CNSC - Bilateral collaboration on licensing efforts for SMRs and other advanced technologies including participation in SMR Forum – BWRX-300
 - **Alexey Ferapontov**, Rostechnadzor - Licensing of new designs (BREST-300, RITM-200 – land deployment)
- **SMRs Vendors**
 - **Tanju Sofu**, GIF/RSWG - Basic Safety Approach for Advanced reactors - TBC
 - **Ronan Tanguy**, WNA/CORDEL - Industry perspective on harmonisation and other challenges for SMRs
 - **Mark Salisbury**, Rolls-Royce SMR - Policy and Regulatory Challenges
 - **Han-gon Kim**, iSMR Development Agency - Policy and Regulatory Challenges
 - **Konstantin Artemiev**, Rosenergoatom JSC - Floating NPP: licensing, construction, and operation experience

15.30-16.00: Coffee break

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16.00-17.45: Panel Discussion Session - Perspectives for future cooperation

The objective of this discussion between MDEP Management Board (MB) and previous Policy Group (PG) members is to reflect on the challenges discussed during topical sessions and highlight areas where more effort is needed to improve the future framework for International Cooperation for VVER and HPR1000 considering the needs of embarking countries, including capacity building. Identify opportunities to further enhanced international cooperation and harmonisation goals. Discuss how to leverage the future cooperation and resources in order to support new reactor technologies.

Session Coordinator: Veronique Rouyer (NEA)

Chair: Abel Julio Gonzalez (ARN)

Panellists:

- **Alexey Ferapontov**, Russian Federation MB member, Rostechnadzor
- **Yue Huiguo**, People's Republic of China MB member, NNSA
- **Tamás Czerovszki**, Hungary MB member, HAEA
- **Zafer Demircan**, Türkiye PG Member, NDK President
- **Orion Phillips**, South Africa MB member, NNR
- **Uzman Habib**, PNRA - TBC

17.45-18.00: Conclusion

The Conference and MDEP Chairs will provide a brief summary of the Conference and discuss the key messages and recommendations.

Conference Chair: NDK President, Zafer Demircan

MDEP Chair, Alexey Ferapontov

18.00: End of the conference