

Nuclear Essentials - A Beginners Guide

PRE-SESSION

Tuesday, 13 January 2026

World Forum - The Hague, The Netherlands

“Small Reactors, Big Impact”

With no previous nuclear knowledge necessary, this “**crash course**” aims to provide the participants with a basic nuclear vocabulary and lays the foundations on which more in-depth knowledge can be built. The course is a condensed version of the NAC Nuclear Primer, a 3-4-day seminar which is being developed with nuclear newcomer countries in mind.

The Nuclear Primer will focus on innovative, new and future technologies and the skill sets required to make this possible, technology assessment, regulatory aspects, international supply chains and financial models.

NAC has a long track record in nuclear education and its academies and seminars are famed for their quality, content and interactive nature. The dialogue between participants and trainers, both during and between the sessions is a great networking opportunity.

The planning for the crash course is as follows:

- 13:00-13:30: Walk-in
- 13:30-17:00: Nuclear Essentials: A Beginners Guide (includes a 30 min break)

Brief programme overview of the contents:

A Brief History

- The birth of nuclear energy, atoms for peace, non-proliferation

Nuclear Reactor Fundamentals

- Basic principles and reactor concepts
- Reactor operation and safety

Nuclear Technology today and in the future

- A review of current and future technologies
- Large NPPs versus SMRs (pros/cons)
- Financing new build projects
- Operational costs

Fuel Supply

- The fuel supply chain (Uranium, Conversion, Enrichment, Fabrication)
- Alternative fuel types

Spent Fuel Management

- Wet and Dry Storage
- Disposal Methods (Reprocessing, Geological repository, Deep Borehole)

DAY 1: Global Perspectives & The Strategic Role of Nuclear

WEDNESDAY, 14 JANUARY 2026
WORLD FORUM - THE HAGUE

8:30 - 9:00	Registration	
09:00 - 10:15	Session I: Opening & Keynote Speeches Maria van der Hoeven (moderator) Former Dutch Minister and former director IEA	
09:00 - 9:10	Welcome word	Floriske Deutman - Chairman SEK
09:10 - 9:15	<i>The Role of Nuclear Energy in the European Energy Transition</i>	Wopke Hoekstra (video message) - EU Commission
09:15 - 09:35	<i>Global Energy Security & The Case for Nuclear</i>	Cecilia Tam - IEA
09:35 - 10:55	<i>Advancements in Nuclear Technology & Next-Generation Reactors</i>	Dr. Stefano Monti - ENS/AIN
10:55 - 10:15	<i>Fuelling the Future: SMRs and the Evolution of the Nuclear Fuel Cycle</i>	Dr. Magnus Mori - Urenco
10:15 - 10:45	Coffee Break	
10:45 - 11:45	Session II: Global SMR Market & Policy Development Keynote Presentations	
10:45 - 11:05	<i>North American Leadership in Nuclear Innovation</i>	Jacob DeWitte - Oklo Inc.
11:05 - 11:25	<i>SMR Development in China: Innovation & Scale-up</i>	Prof. Dr. Fu Li - Tsinghua University
11:25 - 11:45	<i>Speeding up SMR Development</i>	Martijn van Grijthuijsen - Vice-governor Noord Brabant Province
11:45 - 12:00	<i>Building an SMR in Canada</i>	Geoffrey Olynyk - OPG
12:00 - 13:30	Lunch	
13:30 - 14:45	Session III: The Future of Nuclear in a Net-Zero World	
13:30 - 13:45	<i>The Role of Nuclear in the Energy System</i>	Prof. Dr. David Smeulders - TU Eindhoven
13:45 - 14:00	<i>The Benefits of Investing in Nuclear Through a Fund</i>	Mads Steenberg - 92 Capital
14:00 - 14:15	<i>Spent Fuel, Radioactive Waste management and Decommissioning of SMRs</i>	Dr. Ir. Aliki van Heek - Nuclear-21
14:15 - 14:30	<i>How Nuclear Can Drive A Sustainable Maritime Industry</i>	Dr. Ir. Stephanie Heerema - Allseas
14:30 - 14:45	<i>Italian Perspectives on SMR Development</i>	Eng. Vittorio Festa - Vice-president of AIRP
14:45 - 15:15	Coffee Break	
15:15 - 16:15	Panel Discussion • Dr. Simon Friederich - University of Groningen • Joost Greunsven - TenneT • Benjamin Reinke - X-Energy • Arnoud van der Slot - Roland Berger • Dr. Ir. Stephanie Heerema - Allseas (TBC)	Hans Schoenmakers (moderator) Board Member of SEK
16:15 - 16:45	Inspirational speech by Kiki Lauwers (Thordon)	
16:45 - 17:45	Network reception Informal networking between policymakers, industry and researchers	
18:00 - 20:00	Buffet Dinner	

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DAY 2: The SMR Revolution & Supply Chain Development

THURSDAY, 15 JANUARY 2026
WORLD FORUM - THE HAGUE

8:30 - 9:00	Walk-in	
09:00 - 10:10	Session I: Unlocking the Business Potential of SMRs Remco de Boer (moderator) - Studio Energie - energy researcher, writer & podcaster	
09:00 - 9:20	<i>Bringing SMRs to Market: Challenges and Opportunities</i>	Prof. Sukesh K. Aghara - University of Massachusetts Lowell
09:20 - 9:50	<i>Deploying the Rolls-Royce SMR in NL – leveraging EU collaboration to deliver standard modular proven technology powerplants to NL and the rest of Europe</i>	Sophie Macfarlane-Smith - Rolls Royce SMR Dirk Rabelink - ULC Energy
09:50 - 10:10	<i>SMRs as a Catalyst for Economic Growth: Opportunities for Local and Global Development</i>	Jacob Stedman - Blykalla AB
10:10 - 10:30	Coffee break	
10:30 - 12:00	Breakout Sessions <ul style="list-style-type: none"> 10:30 - 12:00 <i>Financing the Future of SMR's</i> 10:30 - 12:00 <i>Localization Strategies for the SMR Supply Chain</i> 10:30 - 12:00 <i>Global SMR Development & Project Updates</i> 	
10:30 - 12:00	<i>Financing the Future of SMR's</i>	Christine Kampinga (moderator) <i>Quantum Impact Investing</i> Floris Lypens - ABN Amro Hilde Olsen - ABN Amro Mads Steenberg - 92 Capital
10:30 - 12:00	<i>Localization Strategies for the SMR Supply Chain</i>	Prof. Sukesh K. Aghara (moderator) University of Massachusetts Lowell Jochem Lukaart - BAM Infra (TBC) Fabio Nouchy - Tractebel Bert van Renselaar - Sweco
10:30 - 12:00	<i>Global SMR Development & Project Updates</i>	Marieke van Gemert (moderator) - NRG PALLAS Margot de Kerpoisson - Hexana Sophie Macfarlane-Smith - Rolls Royce SMR Kristjan Mihhels - Steady Energy Everett Redmond - Oklo
12:00 - 13:00	Lunch	
13:00 - 14:40	Session II: Investment & Industrialization of SMRs <ul style="list-style-type: none"> 13:00 - 13:20 <i>The Recent Development on SMRs in the Netherlands</i> 13:20 - 13:40 <i>Public-Private Partnerships for New Nuclear Projects</i> 13:40 - 14:00 <i>Current Status and Future Needs for Nuclear Fuel Supply</i> 14:00 - 14:20 <i>Preparation for SMR deployment</i> 14:20 - 14:40 <i>Industrial Energy Demand & Nuclear's Potential Contribution</i> 	
13:00 - 13:20	<i>The Recent Development on SMRs in the Netherlands</i>	Titus Tielens - Tractebel
13:20 - 13:40	<i>Public-Private Partnerships for New Nuclear Projects</i>	Bram-Paul Jobse - EPZ
13:40 - 14:00	<i>Current Status and Future Needs for Nuclear Fuel Supply</i>	Prof. Uner Colak Istanbul Technical University
14:00 - 14:20	<i>Preparation for SMR deployment</i>	Bert van Renselaar - SWECO
14:20 - 14:40	<i>Industrial Energy Demand & Nuclear's Potential Contribution</i>	Andreas Tirez - Febeliec
14:40 - 15:30	Coffee Break	
15:30 - 16:30	Panel Discussion <ul style="list-style-type: none"> Martijn Schut - Director Nuclear Energy Program Min. of Climate Policy & Green Growth Dr. Ir. Anton Philipp Anthofer - Hinneburg (a Bureau Veritas company) Ewoud Verhoef - COVRA Sandro Baldi - Nuward 	
16:30 - 18:00	Closing Network Reception Together with the members of the Netherlands Nuclear Society (NNS)	

DAY 3: Future Directions & Local Interaction

FRIDAY, 16 JANUARY 2026
SITE VISITS

Action Plan for the Nuclear Supply Chain in the Netherlands

Site Visit Option 1: Fuel Cycle Development **URENCO Almelo**

09:00 - 09:30	Gathering at the Meeting Point
09:30 - 12:00	Travel to Urenco Almelo, bus transportation to the Site
12:00 - 15:00	Tour at Urenco Almelo , Gronau (bus transportation to the site, lunch included)
15:00 - 17:30	Return to World Forum, bus transportation back to the World Forum

Site Visit Option 2: Waste Management **COVRA Waste management**

09:00 - 09:15	Gathering at the Meeting Point
09:15 - 11:30	Travel to COVRA, bus transportation to the Site
11:30 - 13:00	Networking Lunch at Landlust Nieuwdorp (Welcome by vice-governor De Bat)
13:00 - 15:30	Tour at COVRA , Borssele
15:30 - 18:00	Return to World Forum, bus transportation back to the World Forum

Site Visit Option 3: Research in Advanced Nuclear Reactors **TU Delft Reactor Institute**

09:00 - 09:30	Gathering at the Meeting Point
09:30 - 10:15	Travel to TU Delft Reactor Institute, bus transportation to the Site
10:15 - 13:15	Tour at TU Delft , Delft
13:15 - 14:00	Return to World Forum, bus transportation back to the World Forum

Meeting Point Location: World Forum The Hague, Churchillplein 10, 2517 JW, The Hague

End of Conference



Urenco Almelo



COVRA Waste
Management



TU Delft Reactor
Institute

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