

NEXSMR INTERNATIONAL CONFERENCE

Energietransitie & Kernenergie

Organisor

From Policy to Deployment: Making SMRs Happen.

International Conference

12 – 14 January 2027

World Trade Center - Rotterdam, The Netherlands

"Small Reactors, Big Impact"

Conference Overview

The nuclear renaissance is underway and SMRs are at its core.
They offer a pathway to net-zero, energy security, and industrial competitiveness.
But moving from ambition to implementation requires tackling key challenges: **financing, licensing, supply chains, and public acceptance.**

NExSMR 2027 brings together the decision-makers who make it happen.

A leading international platform focused on **accelerating SMR deployment, scaling the nuclear supply chain, and turning strategy into real projects.**

Who should attend?

Utilities, industry leaders, policymakers, investors, researchers, and end-users — from ports and heavy industry to hydrogen and chemicals.

Why attend?

Connect with key stakeholders across the value chain, gain insights into market developments and regulation, and be part of the transition from plans to projects.

For more information, contact us via:
info@nexsmr.com

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NEXSMR INTERNATIONAL CONFERENCE

Bèta Research GmbH
Energy Transition and Data Services

SMRs from Atom to Asset

Understanding How SMRs Work, Differ and Get Deployed

PRE-SESSION

Tuesday, 12 January 2027
World Trade Center - Rotterdam, The Netherlands

"Small Reactors, Big Impact"

New to nuclear or want a refresher?

In three hours, you will acquire the vocabulary, concepts, and context needed to get more out of every conversation at NExSMR. Conducted by expert instructor **Aliki van Heek.**



Dr.ir. Aliki van Heek is a distinguished nuclear energy expert with over **30 years of international experience** in nuclear technology, SMRs, energy economics, safety, radioactive waste management, and decommissioning.

She is an independent consultant based in Vienna, Austria, after having served at the **International Atomic Energy Agency** and at **NRG** in the Netherlands. Training was part of her duties at both organisations and afterwards, for example, most recently through an SMR course for the Asian training company EnergyEdge.

Content overview

Nuclear Fundamentals

- What are atoms, neutrons, nuclei, nuclides and isotopes?
- From neutron to grid: how does a nuclear reactor and a nuclear power plant work?
- What are the safety peculiarities of nuclear energy?
- How does nuclear power impact energy sector CO_2 emissions?

SMR Reactor Types

- Which technologies are in operation or envisaged for SMR?
- What are their fuel and waste characteristics?
- What is the experience base and the development need for these SMR types?
- How do the SMR types compare?

Commercial Development

- Beyond electricity: which markets and energy products are envisaged for SMR?
- What is true about nuclear power being expensive?
- Which nuclear financing models are common or proposed?
- What about dependency in the nuclear sector, and specifically for SMR?

Time table

13:00 – 13:30 | walk-in
13:30 – 15:00 | course (nuclear fundamentals, SMR reactor types)
15:00 – 15:30 | break
15:30 – 16:45 | course (SMR reactor types cont'd, commercial development)
16:45 – 17:00 | Q&A, discussion, feedback

DAY 1: Global Deployment & End-User Demand

WEDNESDAY, 13 JANUARY 2027
WORLD TRADE CENTER - ROTTERDAM

Tuesday Evening 12 January 2027	***Day 0: Stakeholder Dinner***	
8:30-9:00	**Registration**	
Moderated by Alexander Rinnooy Kan Opening Session: Setting the Scene		
9:00-9:30	Conference Introduction	**Alexander Rinnooy Kan** - *mathematician and former member of the Dutch Senate*
9:30-9:50	Europe's Nuclear Industrial Strategy	**EU commissioner Wopke Hoekstra** *(TBC)*
9:50-10:10	Global Nuclear Outlook	**Fatih Birol** - *IEA* (TBC)
10:10-10:30	The Netherlands: From Policy to Deployment	**Jo-Annes de Bat** - *Dutch State Secretary for Climate and Green Growth (TBC)*
10:30-10:50	***Coffee Break***	
10:50-12:30	**Session 1: From Policy to Projects** Europe has ambitious nuclear plans. But where are concrete projects emerging, who are the customers, and what is needed to move from political ambition to deployment?	
Future Fuel Cycle		**Magnus Mori -** *Urenco*
Advanced Nuclear Technologies: From Innovation to Deployment		**Oklo**
Plenary panel: Collaboration across the European SMR fleet		**ČEZ** **Rolls Royce** **GBE-N**
Nuclear District Heating: From Concept to Deployment		European Utility
SMRs in Emerging Markets & New Nuclear Countries		TerraPower / Turkish deployment partner (TBC)
SMR deployment-- the offtakers perspective		European industrial player
12:30-13:30	***Networking Lunch***	
13:30-15:15	**Parallel Sessions**	
Track A: SMRs for Utilities & Power Generation *What do utilities need from SMR technologies – and what do developers need from their future customers to move towards deployment?*		**EPZ** **Rolls-Royce SMR** **EDF** **JH Atom**
Track B: Industrial Users, Ports & Heat Applications *How can reactor technologies be matched with very different heat requirements – from urban district heating to high-temperature industrial processes?*		**Allseas** **X-energy** **Industrial end-user (DOW / OCI / Yara – TBC)**
Track C: Building the Nuclear Supply Chain How can Europe build the industrial capacity required for large-scale nuclear deployment?		**Sweco** **ParagonES** **NEO NL (TBC)** **Nucleair Nederland** **NRG Pallas**
15:15-15:45	***Coffee Break***	
15:45-17:15	**High-Level Plenary Panel: Who Will Actually Buy SMR Energy?** SMRs will only be deployed at scale if there are customers willing to buy their electricity, heat or energy services. What will ultimately determine whether prospective customers commit? • **Martijn Hagens** – *Eneco* • **Kiki Lauwers** - *Thorizon* • **Arne Weverling** - *Province Zuid-Holland (TBC)* • *Port of Rotterdam (TBC)* • *Large electricity consumer / data-centre operator (TBC)*	
17:15-17:30	**Closing Remarks**	
17:30-19:00	***Networking Reception***	
19:00	***Industry Dinner***	

DAY 2: Financing, Licensing, Human Capital & Scaling

THURSDAY, 14 JANUARY 2027
WORLD TRADE CENTER - ROTTERDAM

9:00-10:30	**Moderated by Remco de Boer** (Studio Energie) **Session Financing Nuclear Deployment** *What will it take to finance Europe's next generation of nuclear projects and move capital from interest to investment?*
The Economics of Nuclear Deployment	**Jan Emblemsvåg** - *Norwegian University of Science and Technology (TBC)*
The Institutional Finance Perspective	**Chantal Schrijver** – *European Investment Bank*
The European Policy Perspective	**Jeanette Baljeu** – *Member of the European Parliament*
Nuclear Deployment for Sustainable Datacenters	**Lex Coors** - *Digital Realty/EDA*
10:30-10:50	***Coffee break***
10:50-12:00	**Parallel Sessions**
Track 1: Investors, Finance & Commercialisation How can governments, investors and developers create bankable nuclear projects and attract private capital?	**Quantum Impact Investing** **SIMCo Funds** *BNP Paribas (TBC)* *ABN AMRO (TBC)*
Track 2: Regulation, Licensing & Human Capital Can Europe license and staff a new generation of nuclear projects quickly enough to meet its deployment ambitions?	**Bèta Research** **Bureau Veritas** *TU Delft (TBC)* *French regulator (TBC)*
Track 3: AI, Data Centres & Future Electricity Demand Artificial intelligence, data centres and electrification are creating unprecedented demand for reliable electricity. Could this become a new market for SMRs?	**Dutch Datacenter Association** *Leading hyperscaler* *Advanced nuclear / SMR developer* *TenneT (TBC)*
12.00-12:30	**Closing Plenary Panel: From Conference to Deployment** What concrete actions are needed over the next five years to ensure Europe's nuclear ambitions become operational projects? • Senior international nuclear representative (TBC) • Senior government / regional representative (TBC)
12:30-13:30	**Networking lunch**
13:30	**Optional Technical Site Visits**
Site visit option 1: Pallas Reactor Project (TBC)	
Site visit option 2: Rotterdam Industrial Energy Infrastructure (TBC)	
End of Conference	

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