

NRG PALLAS

Topical webinar

LTO of nuclear power plants, up to and beyond 60 years

Frederic Blom

Cluster Manager Nuclear Compliance & projects

18 February 2026

NRG
PALLAS

Nuclear. For Life.

Nuclear Innovation Conference

NIC 2026 – 3rd Edition

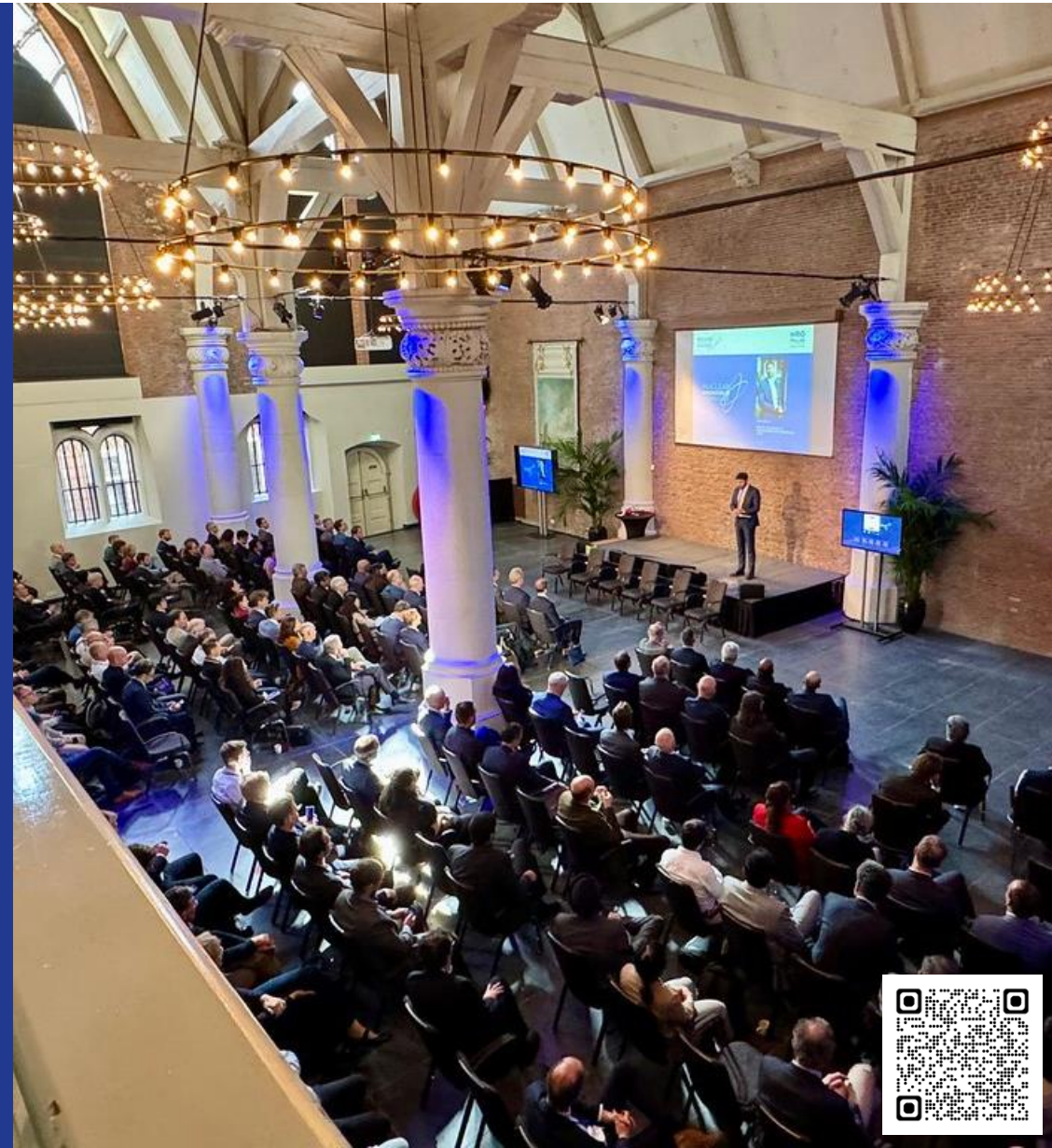
Connecting nuclear to: Industry, Innovations, investors, generations and you!

June 10-11 2026, Phil Haarlem

Meet with key players in the nuclear energy sector

- Showcase of the latest developments
- Live discussions with decisionmakers
- The ultimate networking event

Registrations are open:
<https://www.nrgpallas.com/company/events/nic>



Frederic Blom

Education

Master - Mechanical Engineering, University of Twente (Netherlands)

Ph.D. Mechanical Engineering at EPF-Lausanne (Switzerland)

Current function:

Manager nuclear compliance & projects, NRG PALLAS in Petten.

Examples of key projects and activities are:

Development of LTO-1 at Borssele NPP (40-60 years)

Set-up of Long Term Operation project at Ringhals NPP (Sweden)

Ageing management project Olkiluoto (Finland)

Long Term Operation project Atucha NPP (Argentina), Oskarshamn (Sweden)

Set-up of LTO team at NRG (projects Argentina, South-Africa, Belgium, Japan)

Start of LTO-2 at Borssele NPP (beyond 60 years)



Agenda

Time CET	Subject
15:05 – 15:15	Opening + introduction - Frederic Blom, moderator
15:15 – 15:45	Atucha I LTO: strategy and lessons learned Rodrigo Miri (Atucha NPP, Argentina)
15:45 – 16:15	An effective approach to LTO justification: from 60 to 80 Lorenzo Stefanini (NRG PALLAS, The Netherlands)
16:15 – 16:30	Summary and wrap-up – Frederic Blom

NRG PALLAS

Medical Isotope Solutions

Radio-isotopes & Radio-chemicals

Nuclear Energy Services

New Reactors

- New-build Programmes
- SMR's and Advanced Reactor Development
- Fuels and Materials Irradiations

Existing Reactors

- Long Term Operation
- In-service Inspections
- Licensing
- Fuel management
- Waste management and decommissioning

Radiation Protection

- Operational support
- Laboratory service
- Measuring, monitoring & calibration
- Education and Training

Research

Nuclear Energy and Medical Research

PALLAS New-build

Replacement of HFR in Petten

NRG PALLAS in Alkmaar, Arnhem en Petten



Unique nuclear infrastructure



Molybdenum production facility



Radiological laboratory



Inspection hall



High flux reactor

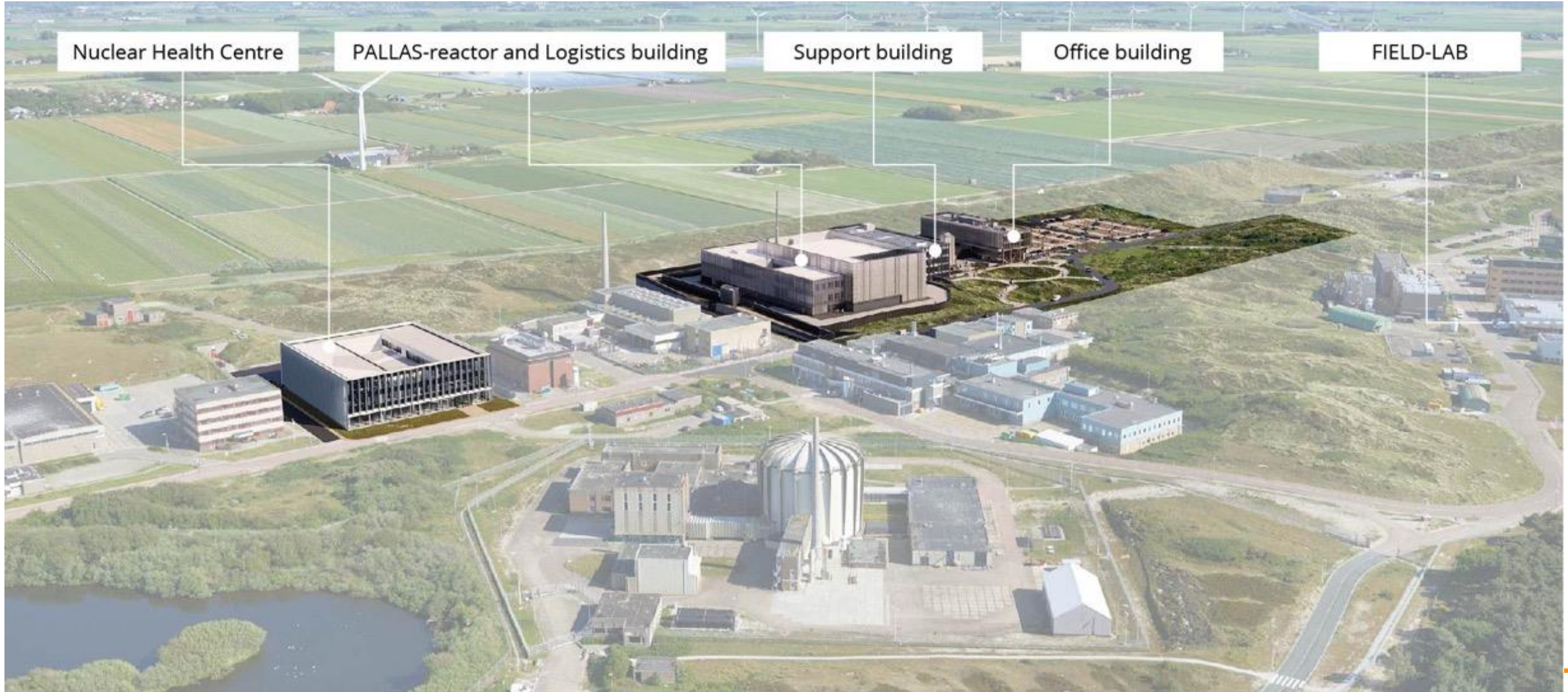


Waste management facilities

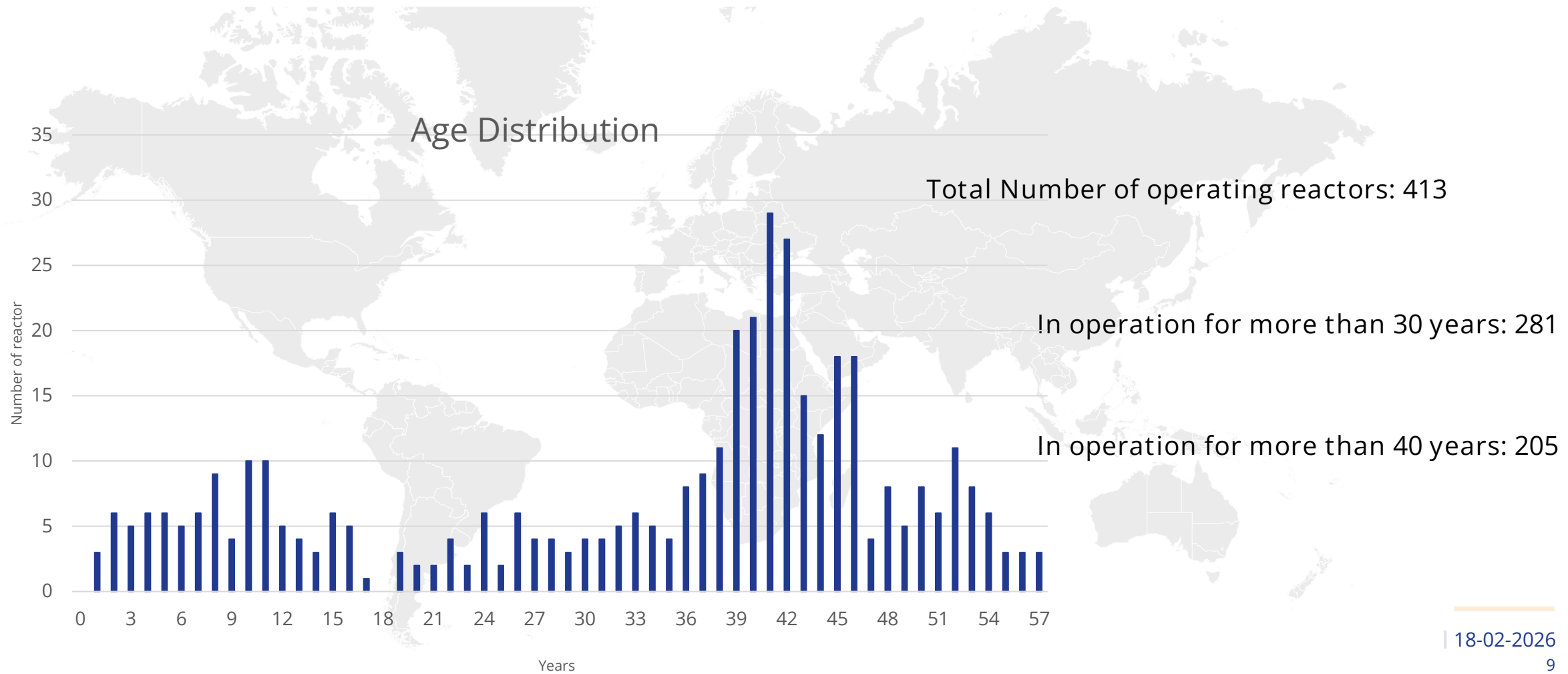


Hot cell laboratories

Preparation and realisation PALLAS-reactor



Ageing of the nuclear fleet



Pillar Concept

Long-Term Operation

Long Term Operation (LTO) of a nuclear power plant refers to the continued operation beyond an established time frame.

Pillar Concept

Ageing Management Plan

Set of strategies and activities designed to maintain the optimal conditions of the structures, systems, and components (SCCs) of a NPP.



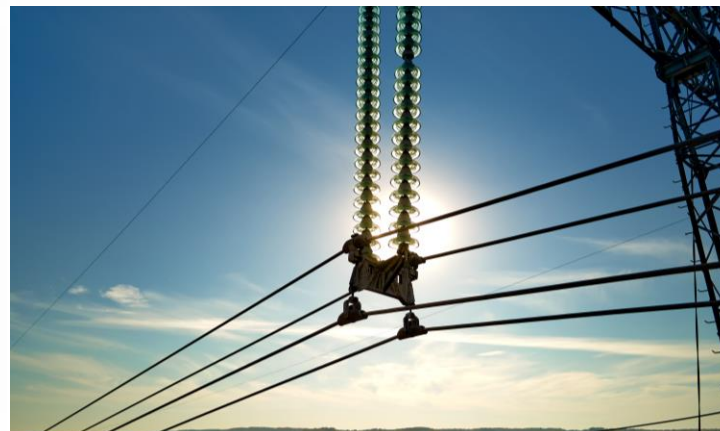
Why LTO, Key reasons



Preserving Grid
Reliability



Extending Clean Energy
Production



Preserving Energy
Security



Focus areas:

1. Ageing management
2. LTO
3. PSR
4. Technical support
5. Assessments & calculations
6. Project management support
7. Preparation of SALTO missions

Our Portfolio

Our Gallery Portfolio



NUCLEOELECTRICA
ARGENTINA S.A.





Thank you!
Frederic.blom@nrgpallas.com

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