



NNWI



CONFERENCE

**Powering Industrial Decarbonisation:
SMRs for Materials Processing Industries**

14 MAY 2026 | LONDON, UK



PANEL 4

Supply Chain and Infrastructure for Industrial SMR Deployment

Chaired by David Appleyard, Chief Editor, Nuclear Engineering International

- Lincoln Hill, Director of Policy and External Affairs, **Nuclear Industry Association**
- Mike Crawforth, Lead Strategy & Business Development Manager, **Rolls-Royce SMR**
- Sue Ferns OBE, Senior Deputy General Secretary, **Prospect**



PANEL 4

**Supply Chain and Infrastructure for Industrial
SMR Deployment**

Lincoln Hill

Director of Policy and External Affairs

Nuclear Industry Association



SMR

ROLLS-ROYCE SMR FOR INDUSTRIAL USERS

14TH MAY 2026 – NNWI POWERING INDUSTRIAL DECARBONISATION

Clean, affordable energy for all

GLOBAL OPPORTUNITY BUILT ON KEY EUROPEAN PROGRAMS

2GW+ OF GOVERNMENT-BACKED CONTRACTED DELIVERY



SMR

Our Key Stages of Activity:

- 1 Deliver against our secured projects in the UK and Czechia, and grow our delivery capability
- 2 Win in Sweden, solidifying European energy sovereignty and building a strong European supply chain
- 3 Grow a global fleet in support of decarbonisation and energy sovereignty

The United Kingdom

3 Units

Units 1-3 on contract at Wlyfa (April 2026)
8000+ project specific jobs



Sweden

3 Units

Final downselect for the Videbergkraft project at Ringhals immanent



Czechia

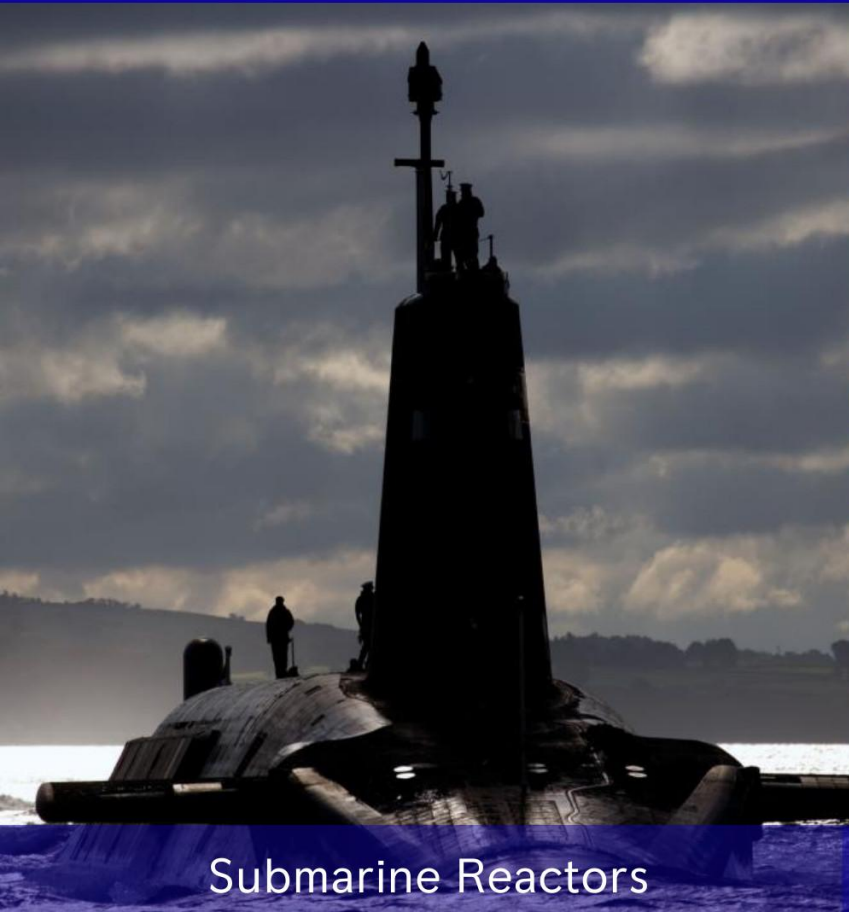
1 Unit

Unit 1 on contract at Temelín (April 2026)



Industrial Users Need Security

WE ARE NOT NEW TO NUCLEAR...
90+ reactor cores delivered since 1958



Submarine Reactors



Defense



Civil Aero



Data Center Backup Power



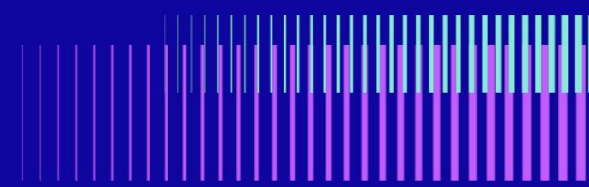
SMR

...OR MAKING MISSION-CRITICAL
PRODUCTS AT VOLUME

44,000+ employees

Supporting millions of total jobs

~£1 Billion invested into R&D every year



THE BEST NUCLEAR SOLUTION FOR CLEAN ENERGY RAMP UP – A MATURE DESIGN, LEADING ECONOMICS, SCALABLE APPROACH, DELIVERY CONFIDENCE



INTEGRATED 'WHOLE POWER PLANT' STANDARDIZED DESIGN



FULL MODULARIZATION AND FACTORY BUILD



ENTIRE PLANT OPTIMIZED FOR ECONOMICS

$$\text{Levelized Cost Of Electricity (LCOE)} = \frac{(\text{Capex} + \text{Opex} + \text{Decom} + \text{Fuel} + \text{Financing})}{\text{Power Generation} \times \text{Capacity Factor}}$$

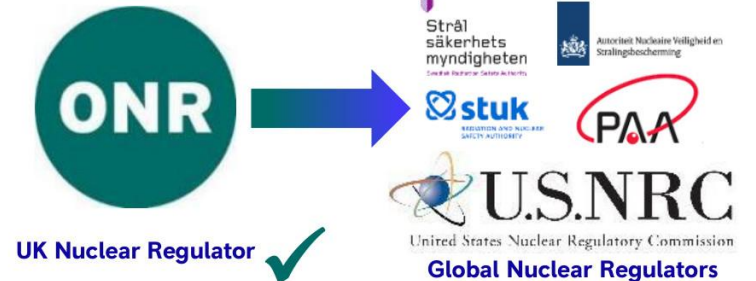
SINGLE CONTRACT DELIVERY



WORLD-CLASS PARTNERS



MOST PROGRESSED POWER STATION THROUGH NUCLEAR REGULATION



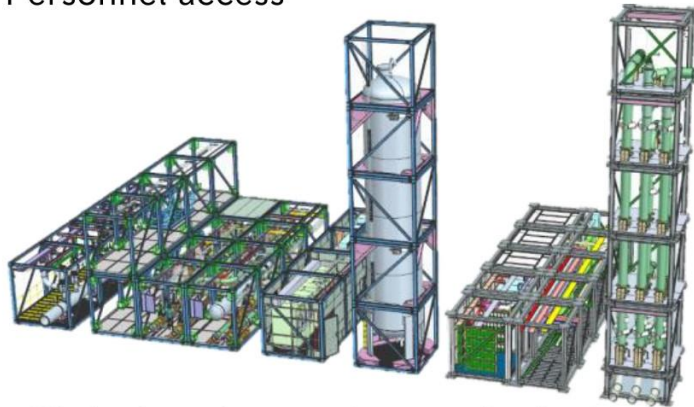
WE ARE MODULARISING THE WHOLE POWER STATION TO TAKE ADVANTAGE OF FACTORY PRODUCTION SYSTEMS THAT REMOVE TRADITIONAL CONSTRUCTION RISK AND PROVIDE STABILITY FOR OUR WORKFORCE AND SUPPLY CHAIN PARTNERS



SMR

Standard Modules:

- Vertical and horizontal MEP modules
- Tank modules
- Personnel access
- Pipe cable and utility routing
- Shielding and segregation
- Structural modules
- EC&I modules



All designed around a standard grid size for integration



Modules
(assembled components)



Clusters
(assembled modules)



Blocks and Buildings
(Power Station)



OUR UNIQUE MODULAR APPROACH ENABLES US TO VALIDATE THE CONSTRUCTION PROCESS GIVING CONFIDENCE IN COSTS AND SCHEDULE AND EMBEDDING LEARNING BEFORE THE FOAK IS UNDERWAY



Representative Facility Demo



CELL DEMO

Off-site Quality Assurance Capability



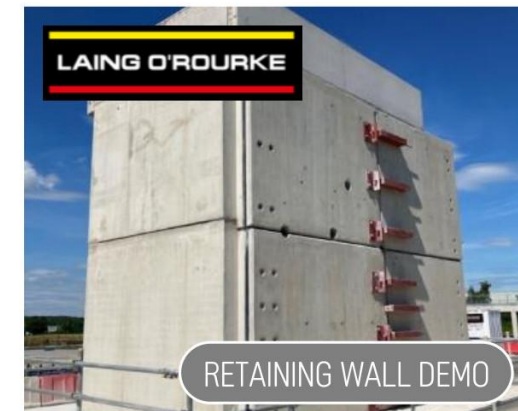
FAT DEMO

MKoP Dev, Module Install & Construction



MODULE DEMO 2.1 & 2.2

CKoP Dev Assembly & Construction



RETAINING WALL DEMO

MEP Assembly of large components



EXPERI - MODULE 1

MEP Assembly of Complex Module



EXPERI - MODULE 2

MKoP Dev, Module Install & Construction



MODULE DEMO 2.3

CKoP Dev Assembly & Construction



ASBP DEMO

Completed

Live Project





SMR

THE CHALLENGE

- Traditional nuclear business models are designed for the provision of grid power and do not enable wider use cases
- Moving away from government sponsored projects is difficult until a technology proves it can deliver repeatedly

Baseload Power



Grid Electrical Power



Private-wire High Utilisation



Industrial Heating



Residential Heating

Power to X



Hydrogen Production



Sustainable Fuel Production



Ammonia Production





**Powering Industrial Decarbonisation –
Supply chain and infrastructure for
industrial SMR deployment**

NNWI Conference – 14 May 2026

Sue Ferns, Senior Deputy General Secretary

Challenges

- FOAK technology
- Co-ordination
- Clear strategy and roadmap
- Investment in supply chains and skills
- Politics

Workforce skills – what's the issue?

- Competition and fragmentation v life cycle approach
- The hollow middle
- Barriers to mobility
- Experience – not just numbers
- Expanding the pipeline

Workforce skills – what else should we do?

- Nuclear skills plan (Sept 2026)
- Role of regulators
- Learn from international experience
- Incentivise mobility and provide routes home
- Utilise the pre-retirement and retired skills base.

The prize

- Good jobs – nuclear, industrial and supply chain
- Sustaining and revitalising communities – place matters
- Energy security
- Economic growth
- Export opportunities



prospect



Q&A Discussion

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