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India's WNE debut

Vital role for nuclear in energy strategy

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BEElieve in the future

Focus on Beyond Electricity

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Spotlight on success

Celebrating excellence in our industry

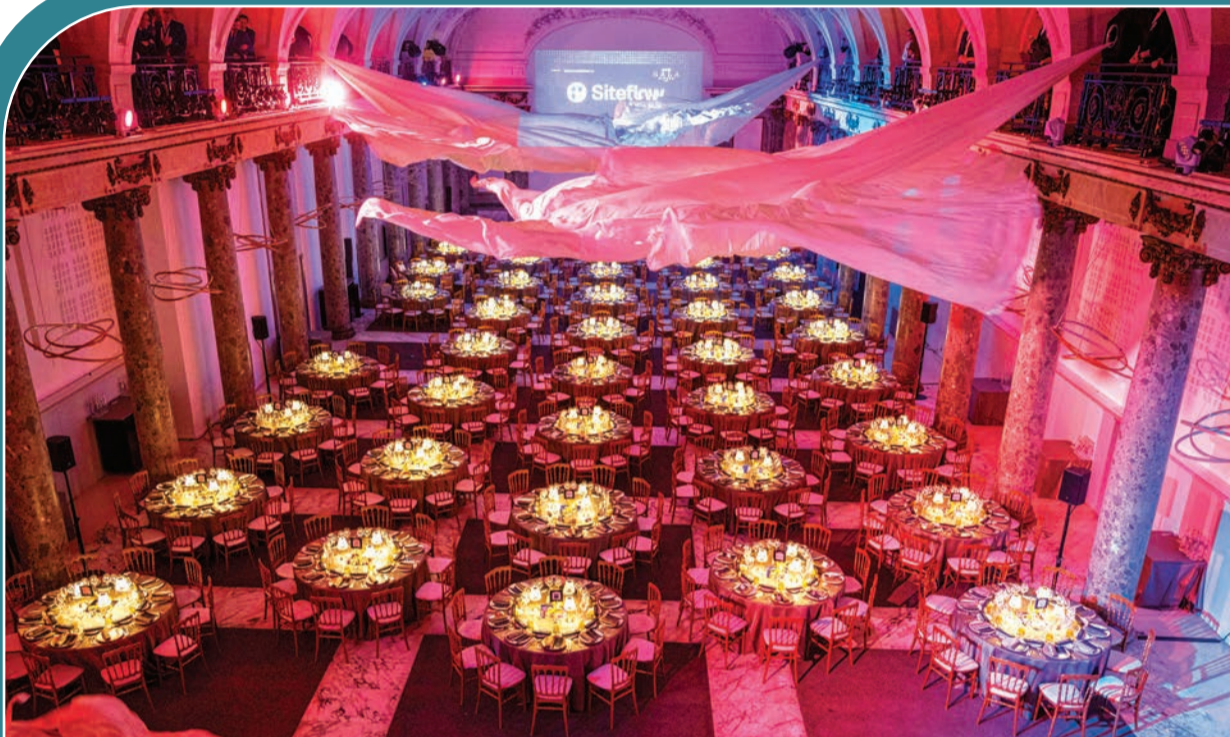
SEE P8



WNE DAILY



NOVEMBER 04 2025 // PARIS NORD VILLEPINTE



GALA OPENING FOR SIXTH WNE

A sparkling assembly of VIPs, exhibitors and friends of WNE gathered at the elegant Pavilion Cambon last night for the second WNE Gala Dinner, to mark the opening of WNE 2025. Greeting guests, WNE President Sylvie Bermann extended a warm welcome on behalf of GIFEN and the organisers of the exhibition – “a celebration of our industry, its progress and the collective energy that drives us.”

Joining Ambassador Bermann and GIFEN President Xavier Ursat at the head table were Mathieu Bihet, Belgian energy minister; Pietro Barabaschi, ITER director-general; Dr Fatih Birol, executive director of IEA; Anne-Marie Descôtes, secretary-general of France’s ministry for Europe and Foreign Affairs; Dr Jimmy Gasore, Rwandan minister of Infrastructure; Rafael Mariano Grossi, director-general of IAEA; Stephen Lecce, minister for Energy and Mines of Ontario; and Dr Lassina Zerbo, Rwandan atomic energy board president. For additional photos turn to page 12.

Sponsors: Siteflow, and Mediaco

EDITORIAL Sylvie Bermann, Ambassador of France and President of WNE

RENAISSANCE OF NUCLEAR BODES WELL FOR THE FUTURE

It gives me great pleasure to once again welcome the global civil nuclear family to Paris and the sixth edition of the World Nuclear Exhibition. We are gathering at a time when nuclear is experiencing a renaissance on every continent – and WNE is a perfect illustration of this new dynamic. This year we are excited to be staging WNE in a larger hall at the Paris Villepinte exhibition complex, a move made necessary to accommodate more than 1,000 exhibitors from around the world – a quarter of them at the show for the first time.

We also have 25 national pavilions, a proud record that underlines both the growing support for our industry in many countries and a recognition of the importance of WNE as the catalyst for bringing together players large and small under one roof.

Our themes this year reflect major factors influencing the global shift in attitudes to nuclear that we have observed over recent years as populations become aware of universal challenges facing them and look for answers.

‘Nuclear, today and tomorrow’ and ‘Beyond

electricity’ encapsulate these aspirations.

Our first theme opens the door for discussions on making the most of existing installations, new nuclear programmes, new technologies, and new approaches to a circular economy.

Every development and innovation brings new opportunities for the industry; for the first time, WNE is organising a roundtable on fusion technology to highlight such opportunities, while elsewhere on the programme, artificial intelligence (AI) is a huge talking point as concrete examples of its current use and expected breakthroughs are discussed. ‘Nuclear tomorrow’ will demand more



human resources. This is the focus of our Job and Training village which invites young people to discover the nuclear industry, its jobs and its many opportunities. Innovation has its dedicated platform in our Startup village which showcases 20 of the most promising ones in the sector from around the world. Nuclear science is

integral to many areas of life other than electricity generation, and this is highlighted under our theme ‘Beyond electricity’.

In another first for WNE, we are featuring nuclear’s role in medicine, agriculture, and industrial applications such as hydrogen, urban heat and e-fuels – even space – which I expect will be a real talking point of this year’s exhibition.

It remains for me to thank our many sponsors without whose support WNE would not be possible, and to wish everyone an enjoyable and successful show.

“ Nuclear science is integral to many areas of life other than electricity generation, and this is highlighted under our theme ‘Beyond electricity’ ”

DAY ONE Main Stage Programme

- 09.30-10.30 Opening ceremony
- 10.30-11.15 Ministerial session
- 14.00-14.15 Keynote speech
- 14.15-15.15 – Panel discussion: Fast-tracking new nuclear programmes: international experiences
- 15.45-16.30 EDF Tribune: From supply chain to value chain: Lessons for nuclear’s next wave
- 16.45-17.30 Orano Tribune: Fuelling nuclear ambition to sustain small, advanced and large reactors
- 17.45-18.30 WNE Innovation Awards ceremony
- 18.30-20.00 WNE Happy Hour

For more info world-nuclear-exhibition.com/en-gb/programme

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MATCH highlights impact of France's nuclear revival



France's nuclear revival is under way and projects are gathering steam. These are the conclusions of GIFEN's MATCH programme in its third annual update, published on the eve of WNE 2025.

MATCH is a tool designed to support the development plan of the French nuclear industry consistent with the strategy announced by President Emmanuel Macron in 2022. Based on a 10-year workload plan, it monitors the alignment between resources and needs and drives a framework for companies in the nuclear industry to share their experiences and actions for the benefit of that alignment.

The 2025 results highlight the effective impact of the nuclear revival, with a 30% increase in planned purchases by project owners over a five-year period. In total, across all roles, approximately 100,000 new full-time equivalent positions (FTEs) will be required throughout the sector by 2035, the vast majority of which will be technicians.

Enhancements to MATCH's features have strengthened its ability to define action plans for human and industrial needs. These action plans, tailored

to each segment and offering a more precise response to specific needs, are currently being designed.

Xavier Ursat, chairman of GIFEN (pictured top left), said the 2025 results show that "our industry, which brings together nearly 2,000 companies employing around 250,000 FTEs, is mobilised to deliver the programmes entrusted to it." At WNE 2025, he added, "everyone will be able to witness the strength and momentum of our industry."

Olivier Bard, chief executive of GIFEN (pictured below left) said the MATCH 2025 report "illustrates the work carried out by GIFEN with a strengthened and more robust methodology. We continue to develop segment-based work for an even more accurate understanding of the situation, trends and needs in the nuclear industry, in order to build and deploy operational action plans."

"MATCH is a valuable measurement tool, but above all, it serves an industrial sector that is vital for our country, to enhance its performance and to build its capabilities and industrial capacities."

Hear Xavier Ursat's keynote speech tomorrow at 9:30 (main stage).

[MATCH] monitors the alignment between resources and needs and drives a framework for companies in the nuclear industry to share their experiences for the benefit of that alignment



Bruce Power is producing Lutetium-177, which is used for targeted treatments in cancers that have metastasized

Unlocking the potential of new radioisotopes

As medical research looks deeper into the creation of specialist radioisotopes for a variety of uses, Montreal-headquartered AtkinsRéalis (M058) – a WNE gold sponsor – stands ready to exploit the unique structure of its CANDU reactors to offer the medical community customised solutions.

CANDU reactors in Ontario, which currently produce 60% of the world's supply of the medical isotope Cobalt-60, could potentially unlock other isotopes with important medical uses.

The company says this is made possible by the structure of the reactor – horizontal tubes in a geometric pattern, which are surrounded by low pressure and relatively low temperature water.

"The inherent design of a CANDU reactor, and how easy it is to access the core, allows us to produce very high volumes of Cobalt-60

without having any negative impact on the power operations of the reactor," said Julianne den Decker, senior vice-president, Operations, Candu Energy.

"This became the starting point for discussions with the medical community about what else we could put into that reactor for different periods of time, which potentially could allow us to unlock other types of medical isotopes."

As the CANDU reactor is refueled online, it offers the flexibility to insert the radioisotope and extract it in whatever time frame is required. Den Decker said: "At Ontario Power Generation, they started working with the medical community on Molybdenum-99 and that is now used for cancer imaging and cancer treatments."

"At Bruce Power, they are producing Lutetium-177, which is used for targeted

treatments in cancers that have metastasized throughout the body.

"There have been remarkable results from some of these treatments."

The reactors producing these radioisotopes have been retrofitted with harvesting systems through the existing access ports, but newer designs will have them built in.

AtkinsRéalis has had interest from CANDU operators in Asia in harnessing this capability. The design allows incredible flexibility and opens opportunities for research.

Den Decker said: "I like to say that we're the oven makers and the medical community are the chefs. They provide the recipes to go into the oven and decide to put it into an area of high neutron flux or into an area of lower radioactivity, as well as whether they want to put it in for seven months, seven days or seven hours."

Partnership model eyed for nuclear new build in Nordic climes

For the Nordic countries of Northern Europe, the challenges to the development of new nuclear projects are partly brought about by their own efficiency. The region offers the most competitive electricity prices in Europe, generated through a decarbonized electricity system.

However, the conclusions of a recent two-year feasibility study, conducted by the Nordic energy company and WNE gold sponsor Fortum (G048), identify market potential for new nuclear to enable further decarbonisation through the electrification of industries and to

strengthen the security of supply by adding firm capacity to the grid.

To achieve this, Fortum is exploring an investment solution using strategic partnerships that could bring together utilities, the state, vendors and consumers.

Jesper Marklund (right), the company's senior manager for strategic partnerships, explained: "The state has an essential role in any new nuclear development. Our feasibility study

shows that public-private co-investment partnership is the way forward."

In addition to sharing the risks, the partnership advantages go further: "A balanced strategic partnership brings experience and input from different parts of the private sector into the project company – from utilities, but also possibly vendors and off-takers."

"The idea is to have a strong owners' organisation and strong owners bringing relevant skills and



competencies to build the project company. The possible involvement of off-takers is suggested to ensure that the new supply is coupled to the new demand for electricity.

"These partnerships could be through ownership of the new plant, or through possible power purchase agreements."

The company is still exploring the balance of such a proposed project company.

Jesper Marklund leads a workshop on the partnership approach at 16:00 today in Workshop Room 3.

INTERVIEW BERNARD FONTANA, CHIEF EXECUTIVE OF EDF

EDF: COMMITTED TO DOMESTIC AND GLOBAL NUCLEAR EXCELLENCE

As nuclear energy gains renewed momentum in France, across Europe, and worldwide, EDF, along with its subsidiaries Framatome and Arabelle Solutions and its industrial partners, is undertaking an unprecedented effort to expand its industrial capabilities and transform the sector.

The EDF sponsor tribune, alongside representatives from our industrial value chain, will focus on the practical levers driving transformation.

Furthermore, EDF will underscore the significance of evolving today's supply chain into a true value chain – more integrated, standardised, and diversified – based on partnerships, to capitalise on lessons learned and support the development of a sovereign, high-performing nuclear industry.

EDF expects this 2025 edition of the World Nuclear Exhibition to foster stronger industrial partnerships. We aim to share our progress and visions to build a successful nuclear industry worldwide.

Our motto is: GO Electric, BUILD Nuclear with EDF. First, we aim to express our common support for the development of low-carbon energy sources, particularly nuclear power, which is essential in the fight against climate change.

Second, we seek to exchange ideas and

projects on enhancing safety and security, quality, lead time and competitiveness, recognising that nuclear success cannot rest on the achievements of a few companies alone.

Finally, with humility, we view WNE as an opportunity to strengthen existing partnerships and forge new ones to advance the goals of the nuclear industry.

The nuclear industry faces several key challenges, including ensuring safety and operational excellence, enhancing efficiency under reduced lead times, and improving quality control while preserving the agility required for executing major projects.

EDF is addressing these challenges through a commitment to safety, streamlining approvals, modernising project governance, and investing in digital tools. EDF applies these principles to its major programs, notably for new construction programmes such as Hinkley Point C and Sizewell C in the UK, and the new French EPR2 programme, as well as for our long-term operation (LTO) programme for our domestic fleet.

EDF's message at WNE is that we are committed to delivering safe, reliable, competitive and sovereign nuclear projects in France and worldwide, contributing to the global goal of tripling nuclear

capacity by 2050.

We believe that reducing lead times, improving quality, and ensuring cost efficiency are crucial for delivering nuclear energy infrastructure faster, at lower cost, and with greater precision.

We invite you to join us in building strong partnerships to turn this ambition into reality with you. And of course, come and visit our booth (F064) which physically embodies our group's ambitions for the decades ahead.



“We believe that reducing lead times, improving quality, and ensuring cost efficiency are crucial for delivering nuclear energy infrastructure faster, at lower cost, and with greater precision

BOOKSHOP

POP-UP BOOKSHOP BRINGS TOPICAL BOOKS AND AUTHORS TO WNE

WNE is launching the Ephemeral Library – a pop-up bookshop where visitors can discover and take home essential works on the civil nuclear industry, authored by some of the world's most influential voices.

Works by thought leaders such as Jean-Marc Jancovici and Bernard Blain, among well-known experts, feature in the selection of books in both French and English selected exclusively for WNE by GIFEN and book industry experts. "Our on-site bookshop gives everyone an opportunity to take away some of the knowledge that powers the industry," said a spokesperson for the organisers. There will be signing sessions at the event every day, so come along, meet the authors and leave with your signed copy!

TODAY'S Signing session

14:00-15:00
GÉOPOLITIQUE DU NUCLEAIRE: POUVOIR ET PUISSANCE D'UNE INDUSTRIE DUALE

Teva Meyer, Associate Professor of Geopolitics at the University of Upper Alsace, Research Fellow, IRIS

WNE DAILY

Want to share a story with us? Find us at the Press Centre or email our editorial team at: info@wnedaily2025.com

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Orano is also building partnerships to develop advanced fuel solutions with SMR, AMR and fast neutron reactors

6 India's nuclear power plants run 24 reactors with a total installed capacity of 7,943 MWe. Six reactors are currently under construction

2X Westinghouse expects AI to double productivity in some domains, reduce outage durations, and even improve safety margins

INTERVIEW NICOLAS MAES, CHIEF EXECUTIVE OF ORANO

A ROBUST NUCLEAR FUEL CYCLE TO SUSTAIN EVERY AMBITION

To achieve net-zero emissions, energy policies must reconcile decarbonisation goals with long-term security of supply of competitive energy.

In this context, nuclear energy stands out as a strategic asset: a proven, low-carbon, and reliable source that not only supports electricity generation but also strengthens emerging uses such as process heat for industry, and district heating. By doing so, nuclear energy is increasingly regarded as indispensable to building resilient and diversified energy portfolios.

The world is in a period of unprecedented energy and natural resource transition. Developments in the nuclear industry include operating lifetime extensions of existing large reactors and significant efforts to launch the next generation of reactors including small modular reactors and advanced modular reactors.

Nuclear energy requires a sustainable, accessible, robust nuclear fuel cycle to support this momentum. Orano's ambition is to support the development of today's and tomorrow's reactors by delivering efficient solutions.

Orano's Tribune, 'Fuelling Nuclear Ambition to Sustain Small, Advanced, and Large Reactors', will focus on the industry efforts, to ensure that the global nuclear fuel cycle meets the increasing needs and expectations of nuclear reactors operators.



Orano is involved in every stage of the nuclear fuel cycle, including mining, conversion, enrichment, reprocessing and recycling of spent fuel, manufacturing of MOX fuel assemblies, as well as nuclear material packaging and transportation.

At Orano, we are not passively waiting for the future, we are already entering a new era of investments across the fuel cycle:

- To supply the global uranium market and meet the challenge of tripling uranium production, we have a balanced and diversified portfolio of mining projects for the short, medium and long term, particularly in Canada and Central Asia, while maintaining significant efforts in exploration and innovation to optimise our projects and unlock previously inaccessible uranium resources.
- For conversion, we are maximising the production of the newest OECD industrial conversion facility.
- For enrichment, we are expanding our Georges Besse II plant and actively investigating the IKE project in the United States.
- In the back end, we are preparing the long-term continuity beyond 2040 of our existing assets at La Hague and Melox and simultaneously launching their renewal through the 'Aval du Futur' programme.
- Orano is also building partnerships to develop advanced fuel solutions with SMR, AMR and fast neutron reactors. In addition, Orano is also present at the BEE exposition with Orano Med, front-runner in the development of a new generation of targeted alpha-therapies to fight against cancer.

inbrief

ADVANCED SOLUTIONS FOR FULL LIFECYCLE

Amentum (K072), at WNE for the first time, is promoting its advanced engineering and innovative technology solutions for the full nuclear lifecycle. Headquartered in Virginia, the company provides strategic advice, programme and project management, siting and environmental assessment, regulatory compliance, design and engineering. Amentum has more than 53,000 employees worldwide, with nuclear expertise in many locations. Its projects include Sizewell C project management, clean-up at Fukushima and Dalgety Bay in Scotland, reactor operational support for South Africa's Koeberg NPP, marine works at Hinkley Point C, and construction management and coordination at ITER.

FORGE MONCHIERI PROMOTES EXPERTISE

Italian forging company Forge Monchieri (N146) is at WNE to promote its experience and expertise in new nuclear power plants, plant revamping, SMRs and waste management.

The Brescia-based company – "the ideal partner for forging products" – is a leader in the large-scale forging industry whose expertise and state-of-the-art manufacturing systems underscore the quality of its output and enable it to respond quickly to the demands of a rapidly evolving market.

ADDRESSING THE CLIMATE CHALLENGE

A global leader in air filtration, Camfil (C040) has been supplying high-quality filtration and ventilation equipment to nuclear power plants for more than 60 years, during which time it has equipped more than 90 plants worldwide. At WNE, its experts are on hand to explain how the company is addressing climate and safety challenges in the nuclear industry with its filtration systems, acoustic enclosures, ventilation, exhausts, dampers, ducts, as well as maintenance and refurbishment services.

AI 'POISED TO RESHAPE' INDUSTRY PROCESSES

The growing role of artificial intelligence (AI) within the industry is a hot topic at this week's WNE. Platinum sponsor Westinghouse Electric Company (F104) believes the technology is already delivering real-world efficiency improvements.

Westinghouse has seen a strong response from the market since launching its Hive generative AI system last September at the World Nuclear Symposium and the company's director of digital optimisation solutions, Mike Drudy, will be highlighting how AI can "supercharge engineering efficiency" at a workshop at WNE today.

"It's a chance to see a real-time demonstration of how AI is already delivering measurable value in day-to-day operations," says Drudy (pictured).

At the heart of Westinghouse's Hive solution is bertha – its nuclear-aware AI assistant that is contextually knowledgeable based on decades of industry data. "Engineers in the nuclear industry can spend upwards of 30% of their time searching for information," says Drudy, noting that bertha "helps them get that time back".

Drudy says the company's AI solutions have demonstrated double-digit efficiency



gains across several engineering workflows. "For example, integrating bertha into CMIS has reduced engineering change package preparation time," he says. "In our EPC teams, we are exploring ways to use AI tools to reduce costs and improve planning."

"Material development is another area – engineers are using it to research new material characteristics and for ways that we can improve our overall processes."

Drudy says that since launching bertha a year ago, it has gained traction from utilities and industry groups. "The potential is boundless," he says. "AI is poised to reshape how nuclear OEMs and utilities handle engineering, operations, and compliance."

"From predictive maintenance and automated inspections to real-time licensing support and training, we believe AI will shift workflows from manual and reactive to intelligent and proactive."

"Over time, we expect AI to double productivity in some domains, reduce outage durations, and even improve safety margins," he adds.

'Supercharge your engineering efficiency with AI', 13:30, Workshop Room 2

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INDIA: NEW INROADS INTO NUCLEAR

India's growing nuclear capabilities will be on display for the first time at WNE, with both individual exhibitors and a dedicated national pavilion (B004).

Nuclear energy plays a vital role in the country's long-term energy strategy. The government has implemented a three-stage nuclear power programme with an ambitious target of at least 100 GW by 2047.

A recent power ministry panel report, widely reported, said India will need almost \$217 billion of investment to meet its target. The report comes at a time when Prime Minister Narendra Modi's government has promised ambitious legal reforms, including limits to operator and supplier liability, to encourage private investment in the sector.

As of September, India's nuclear power plants run 24 reactors with a total installed capacity of 7,943 MWe. Six reactors are currently under construction, which will contribute a further 4,768 MWe.



Construction site at Kudankulam nuclear power plant

Driven by earlier trade bans, a lack of indigenous uranium and vast thorium reserves, the country has been making advances in the field of thorium-based fuels, working to design and develop a prototype for an atomic reactor using thorium and low-enriched uranium.

The inaugural India pavilion will play host to a variety of companies and national industry bodies, including the Confederation of Indian Industry, Adani Group and the National Thermal Power Corporation (NTPC).

In addition, Indian companies from across the country, several of them newcomers to WNE, have individual stands.

Aruna Alloy Steels (K084) an experienced manufacturer of machined steel castings for nuclear service, returns to WNE, as does Larsen & Toubro (E134), which offers turnkey construction, equipment manufacturing (including nuclear-grade forgings), and services, certified with ASME N and NPT stamps.

Newcomers include Core Energy Systems (D126), which creates EPC, O&M, and automation solutions for complex nuclear systems – specialising in life extension, waste management, and precision refurbishments, and Hylent Technologies (C017), which develops revolutionary reactors based on low energy nuclear reaction (LENR) technology.

First-time exhibitor Enpro Industries (L148) is described as a global leader in mechanical fluid systems, process equipment, and renewable energy projects, while Kirloskar Brothers (E130), a world-class pump manufacturing company with expertise in the engineering and manufacturing of fluid management systems, is at the show with its pumps and pumping solutions for nuclear power plants and SMRs.

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Dexterous solutions for stroke patients

Silver sponsor Veolia (H030) is demonstrating the flexibility of its innovations in the Beyond Electricity Expo (BEE) with Dexter, a remote handling manipulator, which was deployed successfully at Fukushima and has been adapted for wider application.

Simon Delavalle, chief technology officer at Veolia, explained: "We developed a system of Dexter that did everything a human can do, but could not do in that dangerous environment. Things that could not be automated, because the tasks are complex, but also because they are not planned. Having human skills in that environment is essential."

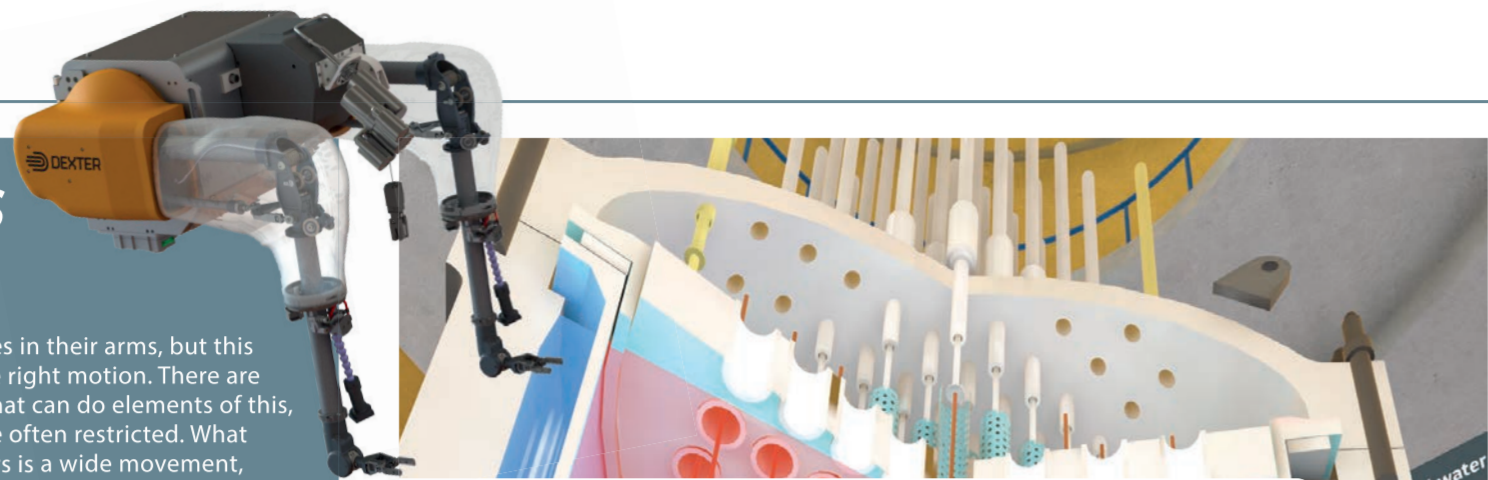
Dexter features force, or haptic, feedback, which means that anything interacting with the robot is felt by the operator. Delavalle said: "If you lift something you will feel the weight of what you are lifting. If you are tightening a screw, you will feel if the screw is loose or tight."

This force feedback instigated a current project with the University of Hasselt in Belgium, which integrated Dexter into rehabilitation exercises for stroke patients. The technology aims to stimulate the rebuilding of crucial neural pathways, enhancing a patient's ability to move and control their arm and hand. Delavalle said: "These patients are having treatment to enable reactivation

of the nerves in their arms, but this requires the right motion. There are machines that can do elements of this, but they are often restricted. What Dexter offers is a wide movement, reflecting human capability. The patients can try intricate tasks, such as pouring coffee or tying a shoe, which are not possible on other machines." Therapists can also adjust Dexter's level of assistance to tailor exercises or games to each patient's needs. "Initially we can offer assistance, as if a helping hand was assisting them. And the reverse, as they are improving we can offer some resistance to help train their muscles, depending on which stage of rehabilitation they are in."

In trials, the participants exhibited life-changing progress, with some patients regaining the ability to independently dress and feed themselves and embrace loved ones.

“Dexter offers a wide movement, reflecting human capability. Patients can try intricate tasks - such as pouring coffee or tying a shoe - not possible on other machines...”



VR Energy Encyclopedia



'SEEING RADIATION' MADE POSSIBLE WITH PORTABLE GAMMA CAMERA

Nuclear imaging technology designed to offer greater access to imaging across medical departments, for patient-centred care, cost efficiency and improved workflow, is a highlight at WNE on the stand of UK-based Serac Imaging Systems (A014B), a featured startup company.

Nuclear imaging, which uses gamma cameras to image the distribution of radiolabelled tracers within the body, is currently restricted mainly to facilities with large SPECT/CT scanners in dedicated nuclear medicine departments. Serac's compact portable Seracam was "designed from the outset for its practical application" to allow simple, small organ imaging at the point of care, whether in an outpatient

clinic, hospital ward, physician's office, intensive care unit, or operating room, reserving SPECT cameras for more complex cases.

The company says its Seracam "leverages technology designed for NASA space observatories" to match or exceed the performance of current systems.

"Surgically precise gamma video images are overlaid on live optical video stream showing the operator the location of sources and watching them move in real time. 'Seeing radiation' enables safer, more effective and more efficient operations."

The device is undergoing testing at clinical sites in preparation for regulatory submission.

Nuclear's vital role beyond electricity A BEE IN WNE'S BONNET

The civil nuclear industry's vital and growing role in improving lives and securing a sustainable future – beyond providing clean energy – is one of the themes of WNE 2025. It is dramatically illustrated at the entrance to the show with a new feature, BEE – the 'beyond electricity expo'. Visitors are greeted by the BEE immersive experience that offers highlights into sectors benefiting from nuclear technology, notably the key areas of medicine, agriculture, space and heat, plus desalination, propulsion and waste disposal.

Healthy expansion

Nuclear medicine is expanding rapidly in areas including diagnostics, treatments and new radioisotope production technologies. Examples abound throughout the show.

Growth in this sector is also powered by the success of specialised radiopharmaceutical firms in developing diagnostic and therapeutic radiopharmaceuticals, with innovations driven by advances in targeted radioligand therapies and new radioisotope production technologies.

Platinum sponsor **Orano Med (H054)**, whose Alpha Therapy Laboratory focuses on producing radioligand therapies, is developing a new generation of targeted therapies.

Known as targeted alpha therapy (TAT), these use the unique properties of lead-212 (212Pb), a rare alpha-emitting radioisotope and one of the most potent therapeutic payloads against cancer, to treat patients not responding to existing treatments.

NuviaTech Healthcare (F046) is promoting its ISOMED series for treatment delivery, designed to simplify and extend the application of nuclear medicine. The

“Recent breakthroughs include using soft electron beams for egg disinfection”

NuMED x40 dose calibrator – successor of the well-known ISOMED series using the proven NUVIA measuring chamber – is used to measure precisely the activity of radiopharmaceuticals to ensure that patients receive the correct radioactive dose for diagnostic imaging or therapeutic procedures. **Veolia (H030)**, meanwhile, is showcasing its work in adapting technologies originally developed to protect workers in the nuclear sector to applications in other sectors, such as health. Its advanced telemanipulator platform Dexter demonstrates how

Veolia's technologies combine robotics, teleoperation, and AI to enhance safety and efficiency across industries.

The final frontier...

In space – the so-called last frontier – developments in nuclear space travel focus on developing both power systems and propulsion, with NASA and partners exploring new radioisotope fuel for deep-space power.

In Europe, **Tractebel (K019)**, a Belgian-based global engineering company, is leading a consortium that includes the French **Alternative Energies and Atomic Energy Commission (CEA – H064)**, **ArianeGroup, Airbus** and **Frazer-Nash (N045)**, on the **ESA RocketRoll** project to harness nuclear electric propulsion (NEP) for space exploration.

The consortium aims to equip Europe with advanced propulsion systems capable of undertaking long-duration missions, including manned expeditions to Mars.

Back down to earth

Here on Earth, as climate change brings greater uncertainty, the nuclear industry is exploring ways to provide space and water heating to towns and cities as a low-carbon alternative to fossil fuels.

Calogena (B084), a French startup specialising in innovative nuclear technologies, has developed a 30MW thermal nuclear boiler designed for urban heating networks.

This facility, which uses uranium fuel, aims

to provide cities with carbon-free heat and help reduce dependence on fossil fuels.

Nuclear science innovation in agriculture is also growing globally, enabling the industry to cultivate stronger, healthier and more nutritious crops, boost agricultural productivity, develop resilient systems in the face of climate change and ensure international food security.

The FAO-IAEA Joint Centre's Atoms4Food initiative is central to these developments, providing tailored solutions to agricultural challenges.

Current developments in the sector focus on mutation breeding for resilient pest-resistant crops, isotopic techniques for efficient fertilizer and water management, and good practice in food irradiation to increase shelf and eliminate pathogens.

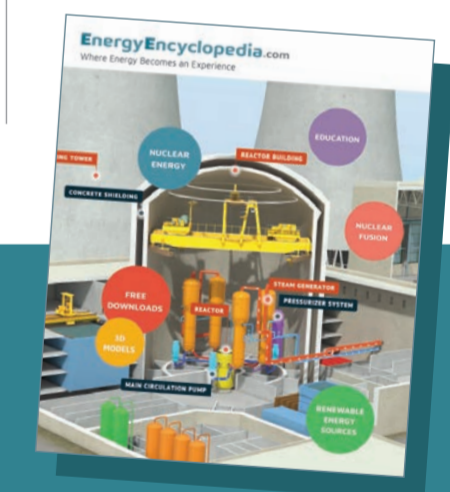
Recent breakthroughs include using soft electron beams for egg disinfection, cosmic ray neutron sensors for soil moisture monitoring, and AI with genomics for accelerated crop variety development.

All nuclear science applications demand care to maintain appropriate levels of safety. **Lerner Pax (F081)** is a specialist in this field, and for decades has been researching, designing and assembling radiation protection solutions for the industrial, nuclear, research and medical sectors, notably radiopharmacy and nuclear medicine.

VIRTUAL HANDS-ON EXPERIENCE OF REACTOR ASSEMBLY

In the BEE expo area, Czech company Simopt presents its virtual reality (VR) Energy Encyclopedia, an immersive educational application that is part of the broader EnergyEncyclopedia.com project. The VR experience allows users to explore more than 20 interactive 3D

models of nuclear, fusion and renewable energy systems, including a virtual lab where they can assemble PWR or SMR reactors or a steam turbine and then watch them operate in full-scale animated demonstrations. The app is available free on the Meta Quest Store.



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Pitch : Lounge France le 5/11

Enjeux du Centre d'Excellence France (CoE) pour la sécurité nucléaire, créé par les opérateurs nucléaires français (ANDRA, CEA, EDF, FRAMATOME, ORANO) et désigné par l'AIEA « Collaborating Centre for Computer Security and Artificial Intelligence for Nuclear Security ».

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SIGMA INGENIERIA

The prestigious WNE Innovation Awards programme, this year in its fifth edition, aims to showcase key players in the civil nuclear industry who have demonstrated excellence and innovation in their fields of operation. It is a unique opportunity to recognise the remarkable achievements of the industry and promote innovation in this sector

CELEBRATING EXCELLENCE



For 2025, the programme has been revamped with four redefined categories – an evolution that reflects that of the industry itself over the past decade since the awards were launched. Eight awards,

one each for small and large companies in all four categories, are up for grabs this afternoon at 17:45 (Main stage). WNE secretary general Farahnaz Laldjee said feedback from previous editions underlined the need for the awards to be

both relevant and useful for the industry worldwide. She said: "Three objectives guided revision of the categories: having categories that reflect the main challenges of the global nuclear industry; having more international projects; and drawing in more small companies as entrants."

The industry has risen to the challenge. Eleven countries are represented this year, an increase on previous iterations, and the revamped categories have attracted almost the same number of entries, despite there being one fewer category than in 2023.

Andy Vickers, Capgemini Engineering's technical director for AI who chaired the jury for the 'Boosting nuclear installation performance and long-term operation' category, was surprised – as were his four jury colleagues – by the breadth of innovation in entries. "We had examples of innovation at the individual component level through to plant level impact, and across every discipline," he said.

Entries from both large and small companies were "full of amazing ideas" and the majority had corporate energy and will behind them. AI entries are now slowly starting to appear, although many entries sought to exploit the benefits of digitalisation for efficiencies. Everyone was driving to "get everything quicker and cheaper while maintaining a stringent level of quality."

Innovators grapple with seizing the opportunities arising from technological disruption while navigating geopolitical instability in a risk-aware regulatory environment. "Most innovation has something to do with 'squaring that triangle,'" he said. "Nuclear has to play its part."

Echoing this, Aline des Cloizeaux, jury chair

for the category 'More adaptive solutions to new challenges,' said she and her team were also surprised by the diversity of entries. "It was difficult for us to choose between solutions related to technologies or services already implemented with specific fields of application, and very promising R&D developments with lower technology readiness levels but wider uses."

"Another surprise," said des Cloizeaux, director of the IAEA's Nuclear Power division, "was the relatively high number of cases using AI and robotics, sometimes coupled."

Given that deployment lead time is a major issue, it was comforting to see entrants addressing this time-to-market challenge with innovative solutions including partnerships, or deploying solutions from other industries.

As for the awards programme, beyond the visibility it brings, it benefits the whole industry "by fostering cross-cutting innovation, showcasing the dynamism of the nuclear sector, and reinforcing attractiveness for the young generation."

For her part, Velina Argirova, chairing the jury for 'Optimising construction costs and lead times,' said the impact on individuals involved in each award entry was also considerable. Speaking from experience, she said the application process "is like team-building and can strengthen those relationships. It's very important."

Velina, who is nuclear business line leader at Vulcain Engineering Group, was surprised by the number of entries and their innovative approaches. "Every time I opened and read an entry, I was convinced it was a winner... until I read the next one."

The solutions offered to the challenges of



'Optimising construction costs and lead times'

Velina Argirova, Vulcain (chair)

Pauline Blanc, Assystem

Sheng Lyu, IAEA

Andrzej Sidlo, Polish Ministry of Energy

Emmanuelle Veran, ECM Technologies



'Innovating beyond electricity'

Loyiso Tyabashe, South African Nuclear Energy Corporation (chair)

Fred Dermarkar, Atomic Energy of Canada

Saran Diakitè Kaba, Independent R&D

Fiona Rayment, University of Manchester

Prof Yahya Tayaliti, CERN



For further details of the companies and projects short-listed for awards, please check out their posters on the Innovation Wall, situated close to Workshop No 3

building quicker, better and cheaper without compromising quality were "impressive," she said. Her jury of five reached consensus quickly, independently selecting the same top three for both the large and small company categories.

For the completely new and broad category of 'Innovating beyond electricity,' the job of judging was helped by a streamlining of the entry guidelines, said jury chair Loyiso Tyabashe, chief executive of the South African Nuclear Energy Corporation (Necsa). He noted especially the use of videos to explain the entry and introduce the "people behind the submission."

A greater percentage of international entries would be welcome, he said, although the standard of entries received was "very high". Companies should continue entering their projects in the awards as these

"offer innovators within organizations an opportunity to test their solutions amongst peers, thus shortening a path to deployment."

With 'beyond electricity' offering such broad scope, the jury assessed benefits to society as the basis for comparison. "If you look at it from that perspective – economic and human benefits – it allows you to compare quite different things," he said.

There could come a time, he added, when the volume of entries necessitated subdividing the category into areas of activity, echoing this year's BEE theme.

The 2025 WNE Award winners will be crowned this afternoon at 17:45 (Main stage)

ADVERTORIAL

ITALY HOSTS ROUNDTABLE TODAY IN WORKSHOP RM2

'From Legacy to Future: The Italian Nuclear Supply Chain' - 5:30pm today

Italy arrives at WNE 2025 with around 60 exhibiting companies and a programme of workshops and panel discussions that reinforce its growing role in the global nuclear supply chain.

The Italian Trade Agency (ITA), in collaboration with AIN (Italian Nuclear Association), ANIMA (Confindustria Meccanica Varia), and ANIMP (National Association of Industrial Plant Engineering), leads a collective participation of 28 companies at stand M095 – more than doubling the presence recorded in 2023. In addition, some 30 Italian companies are exhibiting independently.

The Italian pavilion features a broad range of advanced solutions, including industrial components for the nuclear sector, thermal systems, and pressure equipment. Exhibitors are also presenting

engineering, consulting, and certification services, alongside industrial valves, safety and protection technologies, and systems for industrial handling and radioactive waste treatment.

Italian industry is keen to seize this opportunity to showcase its excellence, innovation, and versatility to an international audience, while exploring cutting-edge technologies shaping the future of the nuclear value chain.



As part of the exhibition programme ITA and the partner associations host a workshop during which Nicola Daniele Ippolito, Head of the Nuclear Division at the Ministry of the Environment and Energy Security, will outline the institutional framework of Italy's nuclear sector.

This will be followed by a round-table discussion moderated by Stefano Monti, President of AIN, with contributions from Luca Mastrantonio, CEO of Nuclitalia and Head of Nuclear Innovation at Enel, Daniela Gentile, CEO of Ansaldo Nucleare, and Stefano Buono, CEO of NewCleo SA.

'Boosting nuclear installation performance and LTO'

Dr Andrew Vickers, Capgemini Engineering (chair)

Janaki Devi Kompella, PRA Consulting (Assystem)

Carolina Losin, Westinghouse Electric

Archita Rajkumari, ENS-YNG

Harri Varjonen, FinNuclear



'More adaptive solutions to new challenges'

Aline des Cloizeaux, IAEA (chair)

Elsa Merle, Grenoble INP/PELMA

Teva Meyer, University of Upper Alsace

Agnes Mutoni, Rwanda Atomic Energy Board



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10-15 years The timescale for developing a nuclear programme for both countries which already have nuclear installations, and those new to the community

3 QUESTIONS

with Jonathan Barr, nuclear segment leader for Flowserve

Flowserve has seven decades of experience supplying vital flow control components to nuclear power plant developers, constructors and operators; and Flowserve continues to be deeply committed to partnering with our customers to enable the global expansion of nuclear energy.

This is an exciting time for the nuclear industry, and we're thrilled to be on stage at WNE, the premier international nuclear exhibition, sharing how we've prepared ourselves to meet this moment.

With global nuclear power demand accelerating, our focus is on enabling customers to meet these opportunities through robust supply chain partnerships, trusted flow control solutions and continuous innovation, including support for SMRs and advanced reactor designs. We have more than 15 manufacturing sites around the world that support our nuclear customers. And with more than 20,000 critical assets operating in more than 300 reactors, we have the global reach and unmatched technical and operational experience to support our customers.

Our Flowserve team looks forward to the insightful discussions and presentations on stage and the valuable opportunities to strengthen our key business relationships at WNE. It's always energising to be at an event like this with the brightest minds in the industry.



SHARED LEARNING KEY TO ACCELERATING NUCLEAR DEVELOPMENT

Accelerating nuclear programmes to meet the commitment – endorsed by 31 countries – to triple nuclear capacity by 2050 presents a complex, multidimensional challenge that will be addressed in a WNE panel discussion this afternoon.

Nuclear programmes require rigorous planning, significant investment, and strict risk management, none of which will be unfamiliar to the expert panel comprising Ian L. Edwards of AtkinsRéalis, French MEP

Christophe Grüdler, Xavier Gruz from EDF, Fan Liuyan of CNEC, R. Scott Rowe of Flowserve, and Arnada Prasad Samal of NTPC. It will be moderated by Linda Nyberg.

Even under the most conducive scenarios, the timescale for developing a nuclear programme is considered to be 10-15 years, for both countries which already have nuclear installations, and those new to the community.

The imperative now is to shorten the

timescale, benefiting from each other's experiences.

Panel attendees can expect to learn about different countries' approaches to planning, management, and regulation of new nuclear programmes, as well as dealing with technical, economic, environmental, and safety challenges.

'Fast-tracking New Nuclear Programmes: International Experiences', 14:15, main stage

Water works: Aerial photo of peripheral flood protection works (PPINO) completed by Eiffage at a French nuclear power plant



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'A sector in urgent need' BUILDING THE PIPELINE OF TALENT

With countries around the world turning to nuclear as a key part of their future energy needs, the demand for qualified personnel has never been greater. In France alone with its new EPR programme, it is estimated that more than 100,000 workers will be needed in the next decade, leading some commentators to describe it as "a sector in urgent need".

Few would disagree, which is why WNE's Job and Training programme is such an important part of the show. "Young people are the lifeblood of our industry," said a GIFEN spokesperson. "It is imperative that we build and sustain a pipeline of talent. You can have the best technology in the world, but without trained people to operate it through its entire lifecycle, it will not deliver the desired results."

Over the three days of WNE, more than 1,000 students and their teachers are expected to visit the show and take part in the programme, which includes hearing from industry experts, HE directors and junior professionals about opportunities in nuclear, taking part in activities and workshops, and guides tours of the show – all the while gaining valuable networking contacts.

This year, the WNE programme organisers are also working with several continuing education organisations to support upskilling, career development and professional retraining.

Our industry partners include Assystem,

Cappgemini, SNEF, Tractebel, Vulcain, and Women in Nuclear (WIN).

As those in the industry know, the range of job opportunities in nuclear is huge; the varying levels of expertise and training needed underscores the outstanding potential for anyone interested in joining and growing within the nuclear industry.

The three pillars of a successful career – an attractive sector, plentiful job opportunities, and further training for advancement – will be presented in the Job and Training programme by industry players, clusters, associations and experts.

For visitors, the programme offers the opportunity to learn about the nuclear sector, to ask questions, and to meet people already working in the industry whose own career trajectories can help shape their future.



Flashback to 2023: Students listen intently to industry veterans at Job Training program

EU PROJECT TACKLES SKILLS SHORTAGE CHALLENGE

The nuclear industry is a major job provider in Europe, currently supporting around 900,000 jobs across EU member states. Growth prospects in the sector, with many projects on the horizon for both large and small new build, will translate into a strong increase of the nuclear workforce... if the skills shortages challenge is addressed.

At WNE, Skills4Nuclear – the EU-funded project fostering workforce development in the sector – will have representatives on hand at the Nucleareurope stand (K126) to discuss its aims to tackle these workforce

and skills challenges in EU nuclear fission and fusion sectors by establishing a long-term collaborative framework that integrates industry, research and training bodies.

Project partners will work together to develop deliverables which provide concrete solutions to support education and training, as well as reskilling and upskilling opportunities.

Examples of key project outcomes:

- The creation of a European forum for nuclear workforce and skills, which will monitor workforce needs, identify emerging

skills gaps and continuously update training programmes.

- The development of a nuclear skills strategy, a multi-annual roadmap guiding efforts to attract, retrain, upskill and reskill professionals for the nuclear sector.
- The implementation of reskilling and upskilling programmes enabling workers from other industries, such as fossil fuels, to transition into nuclear roles.

For more information, visit K126 or the website skills4nuclear.eu

ADVERTORIAL MATERIALS SCIENCE IN A NEW ERA

As global energy demand surges due to population growth, urbanization, AI models, and electrification, advanced solutions are essential. Nuclear power is emerging as a key player, offering safe, reliable, and low-carbon electricity.

The International Energy Agency (IEA) predicts nuclear capacity could double by 2050, with advancements in reactor technologies like small modular reactors (SMRs) and safe designs. Nuclear energy is set to play a crucial role alongside renewables and other innovative solutions.

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"3M leads in solutions driving global energy security. Nuclear energy remains one of the safest, most reliable power sources, offering a stable, low-carbon

electricity baseload," said Stefanie Engbrocks, 3M's energy solutions director (pictured). "We will continue advancing materials science innovations to meet growing energy demands."

3M technology can help advance nuclear reactor design with enriched boron compounds, advanced metal matrix composites, and technical ceramics. We partner with industry leaders to enhance reactor modularity, accelerate construction, and improve material quality.

3M is committed to worker safety in the nuclear industry, offering respiratory, fall, and hearing protection. We also provide solutions for electrical grid connectivity, ensuring efficient nuclear power transmission and distribution.

3M's commitment extends to broader energy solutions, including production, transmission, EVs, mobility, and energy efficiency. Our innovative materials and technologies are ready to shape the future of energy across the value chain.

Left: 3M is committed to worker safety in the nuclear industry with a full line of personal protection equipment (PPE) designed to protect against the multiple hazards in the work environment



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WiN France drives a vibrant community through leadership workshops, outreach, intergenerational dialogue, and thematic roundtable discussions across eight regional groups

VIPS GATHER AT WNE GALA



From top left: Sama Bilbao y León, director-general of the WNA, with Joe St Julian, president of Nuclear at AtkinsRéalis

Centre: Barbara Lang (left) of Man Moteur with Sandra Andreu from OTV Veolia Water Technologies

Far right: Maxime Gheux (left) and Sandro Colletti of Sulzer

Right: Dining out on Nuclear: the beautiful table setting revealed...



National Pavilion Opening ceremony times

- 09:30**
POLAND PAVILION N082, N072
ITALIAN PAVILION L106, M095, M096
Ribbon cutting ceremonies
- 10:45**
BRAZIL PAVILION C020
Opening ceremony
- 11:15–11:40**
HUNGARIAN PAVILION F128
Ribbon cutting ceremony
- 13:00**
CZECH PAVILION D046, E046, C046
Ribbon cutting ceremony
- 15:45–18:00**
UK PAVILION D030/034, C034/034-14
Ribbon cutting ceremony & reception; happy hour 18:30-20:00
- 16:30**
INDIA PAVILION B004, B004D
Opening ceremony

WOMEN LEAD NEW ERA OF CONNECTION AND CONFIDENCE IN NUCLEAR

Across Europe and beyond, WiN France connects people and expertise to strengthen mentoring, leadership, and collective engagement in the nuclear field.

Today, as the industry gathers at WNE 2025, WiN France launches the second iteration of the WiN France Initiative Award – Europe Edition, celebrating initiatives that promote leadership within WiN Europe, mentoring, and the creation of

new chapters. And this evening, as the WNE Innovation Award winners are announced, WiN will be noting the contribution of five of its members, including one jury chair, among the 19 judges.

With the industry accelerating to meet the challenges of energy sovereignty, decarbonisation, and skills renewal, WiN France is more than ever on board to support the nuclear sector in full confidence and openness.

Led by president Andrea Bachrata and a renewed board of 25 members – women and men from across the sector – the association unites professionals committed to building the future of nuclear through shared knowledge, visibility, and action.

“WiN France is more than a network, it is a movement of people who believe that confidence fuels innovation and that progress is a collective journey,” said Bachrata.

Through its members serving in the WiN Europe presidency, WiN France has supported the creation of WiN Italy and WiN Netherlands, helping new chapters structure and connect to the wider network. Together with WiN IAEA, which actively supports WiN Europe, WiN France encourages the development of mentoring programmes between France, Finland, the Netherlands, and the Czech Republic, as well as in the fusion sector.

This cooperation illustrates a shared

commitment to strengthening diversity, confidence, and leadership across the international nuclear community.

Recognising the importance of role models – identified by the OECD-NEA gender balance group survey as a key factor in women’s career progression – WiN France extends this commitment throughout its national network.

Across its eight regional groups, WiN France drives a vibrant community through leadership workshops, outreach, intergenerational dialogue, and thematic roundtable discussions, and celebrates excellence through the WiN France Awards and Fem’Energia initiatives.



WiN France members, mainly the executive committee, join Andrea Bachrata (standing, centre) for a group photo at the recent general assembly

Join WiN France for the launch of its second Initiative Award at 11:00 (Gifen stand). To learn more about WiN France, visit the website, follow on LinkedIn or email contact@win-france.org

TODAY AT BUREAU VERITAS BOOTH F053



Shaping a World of Trust

11:30 – ISO 19443 Awards Ceremony (approx. 15 companies to be awarded)
Celebrate excellence and commitment to quality with Bureau Veritas!

14:30 – Partnership Agreements Signing Ceremony
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2 Day two

1

Ministers' message

'On time, on budget' a must

SEE P2



2

Startup Program

Big boost for promising SMEs

SEE P6



3

Meet our winners!

Kudos to eight top industry teams

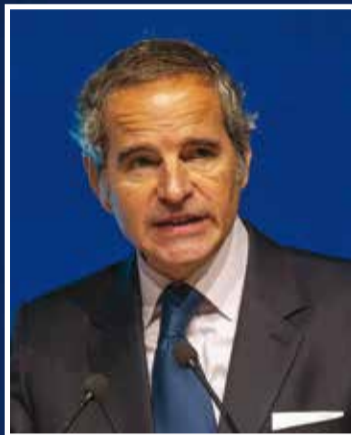
SEE P9



WNE DAILY



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“

What a great moment to be having this WNE, a moment where we see this return to realism is a real return

–Rafael Mariano Grossi



“

Nuclear energy is more than electricity. It is a versatile, transformative force that can address some of humanity's greatest challenges

–Sylvie Bermann



“

We are entering the age of electricity. The amount of electricity consumption growing around the world is unprecedented

–Dr Fatih Birol

NUCLEAR IS BACK!

Four years after predicting at WNE that nuclear energy was set to make a comeback, International Energy Agency (IEA) executive director Dr Fatih Birol had a message for delegates at yesterday's WNE opening ceremony: Nuclear is back.

This year, he said, data shows “the highest amount of electricity generated from nuclear in the world.”

He also highlighted that there are 70 gigawatts of nuclear capacity under construction globally – the highest level for the past three decades – while noting 40 countries new to the sector have plans to build a nuclear industry.

“So, with all these three things coming together, I think what I said four years ago that nuclear is going to make a comeback is a reality now,” Birol said.

Alongside energy sovereignty and supporting climate change ambitions, Birol cited increased demand for electricity as a key factor. “Nuclear has a golden opportunity to make this comeback and see a golden age of nuclear power as we saw in the ‘70s and ‘80s,” he added.

Rafael Mariano Grossi, director-general of the International Atomic Energy Agency (IAEA), struck a similarly upbeat tone about how nuclear energy is valued.

“I think over the past few years we have seen a steady growth in

the activity and realisation of its indispensable nature. I refer to this as a return to realism. A return to the realisation that without the contribution of nuclear energy, economic growth, decarbonisation and the creation of conditions for technological innovation is going to be impossible.”

Also speaking at the opening ceremony, Roland Lescure, France's minister of Economy, Finance, and Industrial, Energy and Digital Sovereignty, commended both Birol and Grossi for “bringing facts to the table” in the wider debate about nuclear energy.

“What progress we have made together over the last two years,” said Lescure. “We now have convinced the world that we are part of the solution, not part of the problem. And this is a great victory for all of us. Now the real work begins.”

Sylvie Bermann, Ambassador of France and President of WNE, said this is a “critical juncture” for the industry, amid the global demand for reliable, low-carbon energy

“As we stand here today, the world faces unprecedented energy challenges,” she said. “The demand for clean, reliable, and affordable power has never been greater. Nuclear energy is not just part of the solution – it is essential to it.”

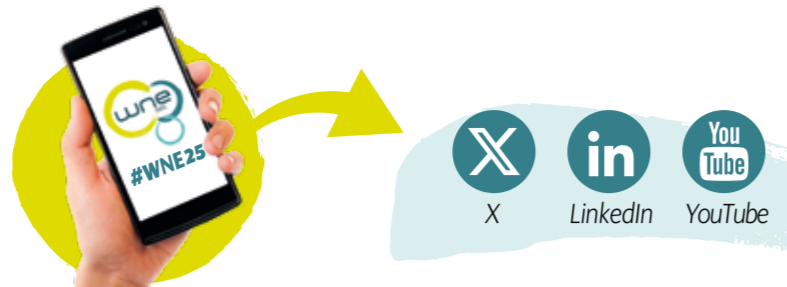


“

Everyone in the room is a friend of nuclear energy, but more importantly I think everyone in the room is also a friend of the planet

Roland Lescure

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10 Assystem is currently involved in around 10 new-build programmes worldwide

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EDITORIAL XAVIER URSAT, CHAIRMAN OF GIFEN LOOKING BEYOND ELECTRICITY, AND THE QUEST FOR NOVEL FINANCE



Welcome – and welcome back – to WNE 2025. It was a pleasure to witness the enthusiasm of opening day yesterday. To have guests of honour from the top tiers of government and industry give their vision about the sector from our main stage reinforces that WNE is not just the world's largest civil nuclear exhibition. Our opening day programme set the bar high with insights, encouragement, warnings and commentary from a variety of experts and the leaders of international institutions. In Day 1's sponsors' tribunes, attendees heard lessons that should be applied in the momentum of nuclear's next wave, and thoughts on the sector's ambition to sustain reactors of all size. Last but not least, this opening day was capped at the end of the day by the winners of this year's WNE Innovation Awards being crowned. Congratulations to all of them! You can read reports on these sessions elsewhere in this issue of WNE Daily. Today our attention turns to some of the pressing challenges of nuclear, starting with finance and the need to find novel ways to fund the nuclear renaissance. WNE's first-ever panel on fusion technology is another highlight in a programme packed with interesting and important topics. If you have not already investigated our 'Beyond electricity' (BEE) area at the entrance to WNE, I would encourage you to do so. This feature, new in 2025, offers a snapshot of several key applications of nuclear energy, both the obvious and the less obvious. Our BEE exhibitors will be happy to explain what they're doing to improve lives. I hope your visit to WNE today is successful.

ON TIME AND ON BUDGET!

"We must be on time and on budget!" That was the biggest message coming out of the Ministerial session on the first day, chaired by Roland Lescure, the French Minister of Economy, Financial and Industrial, Energy and Digital Sovereignty – and two other speakers echoed his sentiment. "We also must ensure that the authorities are going to be on time," he said. "To make sure permits, environmental regulations, facilities, housing are there [so] the ones building the nuclear facilities have the right surroundings to make sure we do it fast." Lescure was keen to stress the innovations nuclear energy provides. "It's not just about providing carbon-free cheap volume electricity but providing heat for industrialists who want to decarbonise the industry," he said. Peter Szijjarto, Hungarian Minister

of Foreign Affairs, agreed. Hungary is currently managing the largest nuclear project under construction in the EU. "We know the demand for electricity in Hungary is going to increase exponentially in the coming years, and the only way we can meet that demand in an environmentally protective, cheap and stable way comes from the nuclear energy." Hungary has two nuclear projects running in parallel, a life-time extension for its four current nuclear reactors, and building two new reactors that together will add 2,400 megawatts of capacity. Szijjarto revealed the welding of the first pressure vessel, forging of the second pressure vessel, and production of the core capture are under way. Poland is now building its first nuclear plant, because as Wojciech Wrochna, the Polish Minister of Industry, said: "It's a dispatchable clean source of electricity and we can rely on it to secure our supply. We believe that Poland can be part of this global nuclear revival that can help boost Poland's economy." Sharon S Garin, the Philippines Secretary of Energy, travelled 20 hours to speak at the forum about the aspirations her country to return to nuclear energy. Its facility in Bataan was mothballed in 1986, before it actually opened, following the Chernobyl accident; then came the Fukushima disaster in 2011. In October 2024, it was announced that Korea Hydro and Nuclear Power (KHNP) would complete a technical and economic feasibility study on the potential rehabilitation of the Bataan plant. "We just need a private developer to come in with government participation. We have ambitions of having a nuclear power plant in the Philippines inside 10 years, with help from the international community".



Ministerial panel members (from left) WNE president Sylvie Bermann; Wojciech Wrochna, Polish minister of Industry; Sharon S Garin, Philippines secretary of Energy; Péter Szijjártó, Hungarian minister of Foreign Affairs and Trade; Stephen Lecce, Ontario minister of Energy and Mines; and French economy minister Roland Lescure

FLAMINGO FLIES HIGH FOR OAKRIDGE

The pink flamingo is Oakridge's WNE mascot for 2025. Like previous mascots – the polar bear (2018), clown fish (2021) and monarch butterfly (2023) – it was selected from the list of animals endangered by CO₂ emitted by fossil fuel plants. At WNE yesterday, Cyrille Molina, president of Oakridge, presented an award to Victor Bocher of French microreactor innovator Naarea, who guessed the identity of the mascot during a six-week lottery on LinkedIn. Show-goers can pick up their own flamingo at Oakridge's stand (C064).

Flamin-Go get one! Oakridge president Cyrille Molina with the flamingo giveaways

INTERVIEW STÉPHANE AUBARBIER, DEPUTY CHIEF EXECUTIVE OF ASSYSTEM ASSYSTEM OFFERS A HELPING HAND TO NUCLEAR NEWCOMERS

Assystem is using WNE to highlight the key challenge of how to ensure first-of-a-kind nuclear power plants are successfully developed in light of the surge of activity in the sector. "I don't think that we have ever seen so many countries aiming to be a newcomer in nuclear [energy]," Assystem deputy chief executive Stéphane Aubarbier told WNE Daily. Demand is being driven by states aiming to secure sovereignty over their energy supply given wider geopolitical volatility, as well as the key role nuclear energy can play in meeting sustainability targets. But this fresh demand creates its own challenges. "On one hand we have a lot of countries keen to access nuclear [for the first time] and on the other hand we have a nuclear industry, particular in the western world, which has delivered a very limited number of projects in the last decades," Aubarbier noted. "It means this part of the industry is going through a fresh learning curve and, to support this, Assystem is hosting a Tribune entitled 'First of a kind without failure' today at 14:00 featuring perspectives from stakeholders across the sector and tackling a range of issues. That includes financing. "We know the funding is one of the prominent topics to make a nuclear programme possible right now," said Aubarbier. The Tribune also features Yernat Berdigulov, chief executive of Kazakhstan's atomic agency KNPP, one of the countries Assystem is assisting as technical advisor in developing its first nuclear reactor in generations. "We are currently involved in around 10 new-build programmes worldwide," said Aubarbier. "So we have a strong and up-to-date benchmark of what is working and what are the best practices of the industry." The family-owned French firm, which employs around 8,000 staff and will mark its 60th anniversary during WNE, is also highlighting its digital capabilities. "We are maybe more orientated to digital technology and AI than some other competitors, meaning we tend to leverage more the capabilities of the available technology in how to make new projects successful," said Aubarbier. This is being showcased during a series of demonstrations during WNE, which Aubarbier flagged as a key event for the sector. "You have all the stakeholders taking part, from the operators to the supply chain, and coming from all parts of the world. For us, it is a unique opportunity we have every two years to meet with all our customers and our target prospects."

"This part of the industry is going through a fresh learning curve and, to support this, Assystem is hosting a Tribune entitled 'First of a kind without failure' today..."



3 QUESTIONS

with Chris Conboy, AtkinsRéalis Managing Director, Nuclear and Power, EMEA
Our attendance at WNE 2025 is driven by our commitment to engaging with industry peers, sharing best practice and innovation, and collaborating to tackle the common challenges facing the global nuclear sector. By participating actively at WNE, we aim to deepen partnerships and help accelerate the delivery of safe, reliable and sustainable nuclear solutions worldwide.

As one of this year's gold sponsors, and as a global nuclear company, AtkinsRéalis will be representing our involvement across the nuclear lifecycle at our stand (M058). Across the event, we'll be running workshops, presenting on panels and hosting talks on our stand to share our experiences and perspectives on the key challenges and opportunities facing our sector: from skills to isotopes, learnings from replication and delivery of major programmes, as well as technology that's helping to deliver safe, sustainable and future-ready nuclear solutions. As we focus on increasing nuclear capacity by 2050, we must address our common challenges and look at ways to achieve those goals: incentivising investment; realising the efficiencies of replication, modularisation and collaboration; and the role of nuclear in the future energy mix. WNE is an opportunity for the sector to come together, strengthen partnerships and focus on how we can collectively deliver the next generation of nuclear around the world, and we're looking forward to joining the conversation.



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ROLLS-ROYCE AMR:

Scalable power for sustainable energy security

OPTIMIZING COMPLIANCE: The Strategic Role of AIA in Mitigating Project Risk

Workshop room 3
Mercredi 5 novembre à 11h30

38 The average age of France's 57 reactors is now 38.



INTERVIEW LOU MARTINEZ, CHIEF TECHNOLOGY OFFICER AND EXECUTIVE VICE-PRESIDENT, R&D AND INNOVATION, WESTINGHOUSE

BUILDING THE FUTURE TOGETHER

In our Tribune at WNE 2025, we are focusing on how digital innovation is reshaping the nuclear landscape from design to deployment to operations. Technologies such as automation, AI, analytics, and machine learning are revolutionising our society. They are also redefining how we build and operate nuclear plants.

This transformation is not theoretical – it is happening now. Thus, we are pleased to share the main stage with distinguished partners and customers from Constellation, Google Cloud, Databricks and Spie Batignolles, who drive this shift alongside Westinghouse.

Our company was born 140 years ago out of George Westinghouse's bold vision to solve problems others couldn't. That spirit still drives us – from pioneering nuclear power in the 1950s to supporting half the world's reactors today.

Now, we're accelerating the nuclear lifecycle: deploying AP1000 reactors powered by AI, fabricating next-gen fuels, and extending the life of the global fleet. With 75 years of nuclear data, we're equipping our teams with predictive and prescriptive tools to make smarter, safer, and

more effective decisions.

But ultimately energy is about people. It's about quality of life. Nuclear has quietly powered progress in medicine, food safety, and peacekeeping. And today, it's back at the centre of the global energy conversation – ready to expand, enhance, and lead.

Westinghouse is bringing together hyperscalers, utilities, constructors, policy-makers and financial experts alongside skilled workers to deliver large-scale deployment of new AP1000 nuclear reactors across multiple projects and in different countries simultaneously. We are innovating in a new way with our AP300 SMR and microreactor technologies while we serve the current fleet.

For example, we are fabricating the next generation of nuclear fuel to lengthen the time between refueling outages. We are engineering and manufacturing components that increase power and extend reactor lives.

There is a commitment from leaders globally to expand nuclear power

generation in the next 20 years, and we are ready to meet the demand. These new projects will create tens of thousands of high-paying, long-lasting jobs for the energy sector. They will also provide safe, carbon-free energy certainty to countries and their citizens for the 80-plus years of nuclear power plant operations.

At WNE, we're showcasing how Westinghouse is driving the future of nuclear as a 21st century energy leader. From advanced reactors to next-gen fuels produced in North America and Europe, our solutions are built for scale, speed, and impact.

Visitors will get a first look at Bertha, our AI simulation powered by the Westinghouse HIVE platform, which optimises construction timelines and costs for AP1000 projects. We're also demonstrating how our AI-enhanced OptiLife CMIS platform transforms engineering workflows.

To explore what's next in nuclear, stop by our exhibit space (F104). Let's build the future – together.

“ But ultimately energy is about people. It's about quality of life

WORKSHOP

EDF addresses lifespan extension challenges

France's nuclear fleet is a cornerstone of the country's energy security and national sovereignty, but it is aging. What to do about this is the subject of an important WNE workshop today.

The average age of France's 57 reactors is now 38. These reactors were originally licensed to 30 years and are subject to 10-year reviews to allow their continued operation.

In 2014, EDF implemented a major renovation strategy, the Grand Carénage programme, to strengthen the resilience of the fleet, anticipate future requirements and address the evolving needs for electrical power, by extending the long-term operation (LTO) span of its nuclear plants.

The programme has defined and addressed the challenges. Sylvie Richard, director of the Programs and Strategy Division, EDF Thermal and Nuclear Direction (pictured), said LTO is a "key lever" for achieving France's goals of carbon neutrality by 2050, competitiveness and reindustrialisation, and ensuring security of supply.

"Extending the lifetime of nuclear plants requires mastering a high level of industrial and regulatory complexity – from coordinating large-scale safety upgrades, managing aging components and climate change adaptation, to keeping projects on schedule and within budget. "Ensuring the right skills, knowledge transfer, and a

continuous dialogue with the regulator are equally crucial, to maintain safety, security and quality."

In 2010, EDF assessed the prospect of 60-year lifetimes for all its existing reactors. Now, 10 years into the programme, the team has gained insights that it will share in the workshop.

Richard said anticipation and teamwork are everything. "The programme has shown that industrial excellence relies on operational efficiency and strong collaboration across the entire nuclear ecosystem. Our goal is our sustainable contribution. Each plant's future will depend on rigorous assessment, evolving standards, and our shared commitment to energy transition."

“ The challenges of existing plants: 12:00, Workshop Room 2



70 There are about 70 technologies for SMRs under development

WORKSHOP

Stakeholders must 'embrace conversation' about SMRs

Projections suggest the SMR industry could be worth \$650 billion by 2050 – if SMRs' potential can be turned into a reality. What needs to happen, and how companies can be part of the journey, is the theme of a workshop today presented by the Frazer-Nash Consultancy (N045).

Client director Stuart Yellowlees said SMRs will struggle to make an impact on the growing demand for clean energy without achieving readiness in five key areas: technology, delivery, infrastructure, regulation, and policy. Alignment in those areas is essential, he said, before the industry can begin to be deploy SMRs at the accelerated pace that will soon be needed.

Kevin Murray, Frazer-Nash nuclear market group manager, said governments and

major utilities around the world, broadly speaking, are "embracing the conversation" about growing energy demand which "no one vendor, no one technology" can meet.

There are about 70 technologies for SMRs under development, all with "unique value propositions and different end-use cases".

As a global strategic adviser, Frazer-Nash is exposed to developers working with some of the more innovative technologies in AMR, molten metal, etc. "We're seeing nuclear as integral in so many applications," said Murray. "Nuclear is inserting itself into the dialogue on decarbonisation and new technologies."

In its workshop, the company will share practical guidance on learning lessons from previous major capital programmes by deploying a technology



with a fleet view, not a project view, in order to create a global, repeatable value proposition for SMRs.

“ Join the SMR dialogue with Frazer-Nash at 12.30 today in Workshop Room 3



Sharing practical guidance on learning lessons from previous major capital programmes, from left, Kevin Murray, Richard-Metcalfe and Stuart Yellowlees of Frazer-Nash Consultancy

INTERVIEW GRÉGOIRE PONCHON, CHIEF EXECUTIVE OF FRAMATOME

FRAMATOME PUTS INNOVATION ON DISPLAY

For a company that spends around a third of its profits on research and development (R&D), WNE provides a great opportunity for Framatome to showcase its innovation, according to new chief executive Grégoire Ponchon.

Ponchon, who served as chief financial officer before taking the helm of Framatome this summer, says that WNE has become the "reference event" for the global civil nuclear industry worldwide.

"Framatome, as an international company and a leader for designing and manufacturing the nuclear steam supply system of nuclear power plants, is a key player in the nuclear industry and it is important for us to be there, as a sponsor, to show we are part of that community," he says.

Across the week the company will have a series of live demonstrations and workshops, including the Framatome Tribune at 15:00 today – a panel discussion entitled 'Key enablers for the competitiveness of Nuclear Energy', chaired by Ponchon.

"It is always a good opportunity to show that we can complement the activities that we have, with many opportunities that come from innovation," Ponchon says of WNE.

One example of this innovation is a

new additive manufacturing plant that Framatome will open mid-next year. "It enables us to produce complex components fast," Ponchon says, noting the plant will be able to produce metal components of up to 20 tonnes.

Located in more than 20 countries, Framatome is growing rapidly. It now employs 21,000 staff, up from 13,000 in 2016, and one of the company's objectives at WNE is to support staff recruitment. "We hire 2,500 people every year – which means we need to promote the brand and make sure we get the best candidates."

It comes as nuclear energy plays an increasingly prominent role in national energy strategies.

But while there is an increase in new-build nuclear energy programmes, he sees a key role for Framatome in helping to support existing plants as well, be it through improving productivity, extending the lifetime of plants or



restarting them altogether.

Ponchon says the priorities for the company are health and safety, quality and lead-time. On the latter, he points to work Framatome has done to reduce lead-time on components.

"If we want to be part of the new-build programme that is very promising, we need to make sure that we develop win-win solutions that reduce cost," Ponchon says. "That comes from strong organisation, but also the investment we are doing right now to grow our products."

“ We hire 2,500 people every year - which means we need to promote the brand and make sure we get the best candidates

inbrief

COLOR CLUES TO CONTAMINATION

Making its WNE debut is Color Tech Holdings (E018M), here to promote its solutions for the accurate and simple detection of nuclear contamination in the field. Its colorimetric technologies CodeNu and CodeBe are innovative approaches to the chemical detection of uranium, plutonium and beryllium. Based in the US and UK, Color Tech Holdings boasts an active R&D programme to develop colorimetric tools for other contaminants/ radionuclides, broaden applications, and develop other nuclear and security related technologies.

SPECIALIST IN ROTATING MACHINERY

Normandy Control Group (E064), at WNE for the first time, is a specialist in speed regulation and protection of rotating machinery in the energy sector, including nuclear. A distributor of Woodward and Parker Meggitt brands, it provides reliable solutions for turbine and generator control and monitoring with services including equipment supply, maintenance, retrofitting, and training. Based in France, the group supports clients in demanding projects worldwide.

3 QUESTIONS

with Korea Atomic Industrial Forum (KAIF)

The Korea Atomic Industrial Forum (KAIF) is the organiser of the Korea Pavilion at WNE which brings together five companies – the main members of the nuclear organisations of Korea – whose motto is 'One Team for Nuclear Power Export'.

● Korea Hydro and Nuclear Power (KHNP), leading the Korean nuclear industry consortium, is the owner and operator of all 26 nuclear power plants (NPPs) in Korea, the world's fifth-largest nuclear power capacity.

● KEPCO Engineering and Construction (KEPCO E&C) is an engineering firm offering a comprehensive range of engineering services across the entire NPP life cycle, from planning to decommissioning and waste management.

● Doosan Enerbility is Korea's sole major manufacturer of key NPP components with one of the world's most advanced nuclear equipment manufacturing capabilities.

● KEPCO Nuclear Fuel (KEPCO NF) is the sole nuclear fuel company in Korea, specialising in nuclear fuel design and fabrication, reactor core design, safety analysis, and fuel services.

● KEPCO KPS (KEPCO KPS) is a global leader in power facility maintenance, providing comprehensive services and total plant solutions not only for NPPs but also for thermal and other types of power generation facilities worldwide.

Pavilion organiser KAIF has around 530 member organisations, including major companies in Korea's nuclear industry. Its work includes promoting the expansion of the nuclear industry and facilitating domestic and international cooperation and exchange initiatives on behalf of its members.



TOMORROW AT BUREAU VERITAS BOOTH F053



Visit Bureau Veritas Booth F053 from 11.00 for a special presentation of DORNIER HINNEBURG GmbH, the newest member of the Bureau Veritas nuclear family.

Don't miss the exciting moment when Bureau Veritas will unveil the new name of its subsidiary dedicated to Dismantling and Decommissioning, Radiation Protection and nuclear Waste management !

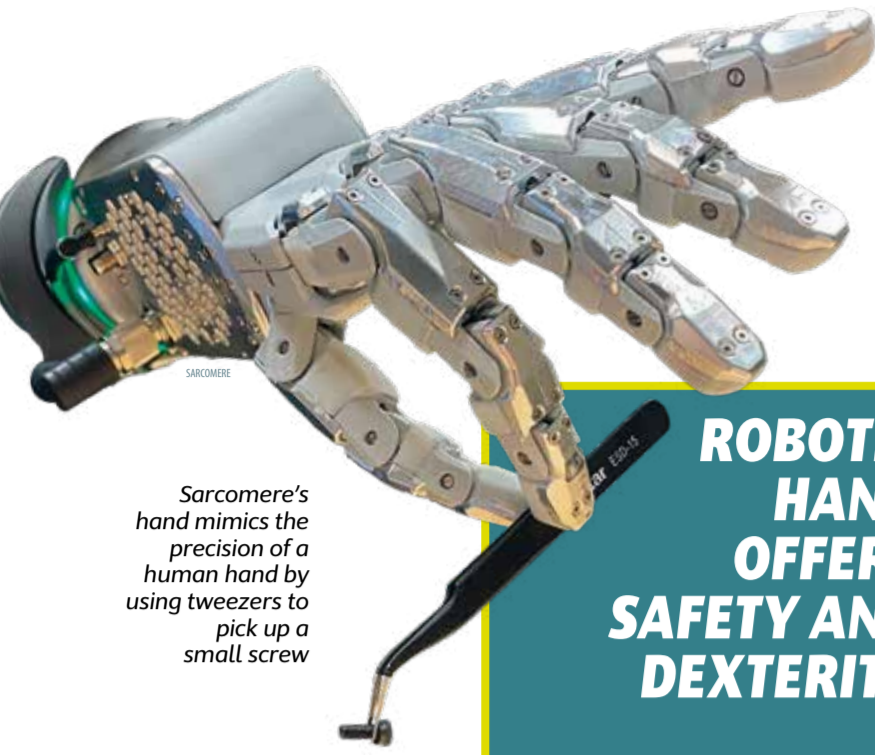


At Onet Technologies, innovation drives performance.

AUTOMATIC ORBITAL WELDING ASSISTED BY AI

Join us at our stand for a live demonstration operated 700 km from the machine.





Sarcomere's hand mimics the precision of a human hand by using tweezers to pick up a small screw

ROBOTIC HAND OFFERS SAFETY AND DEXTERITY

Sarcomere Dynamics (A012B) returns to WNE with its near-human robotic hand, this year as part of the Startup programme, in search of partners to help trial its high-dexterity hands for teleoperations, including in glove boxes, and high-radiation settings

Co-founder and chief executive Harpal 'Manny' Mandaher says that by replicating the capabilities of the human hand, the company will contribute to overall worker safety by augmenting human labour in hazardous settings.

The company was founded in the Canadian city of Calgary in 2021 by Mandaher, his wife and son, who is the chief technical officer, and remains family-owned and managed. A current funding round is aimed at

supporting a scaling-up of output to 100 hands a month, to meet demand from system integrators.

Using its patent-pending actuator technology, Sarcomere says it is able to build compact robotics without sacrificing functionality or grip force, which enables automation of intricate tasks previously considered too difficult for robots. Nuclear decommissioning, waste management, and emergency response are among the high-risk scenarios targeted.

"Our hand has been undergoing trials with customers from various verticals," said Mandaher. "We need partners with experience in this field to help us refine our design and capabilities for the nuclear industry."

ENHANCED SCAFFOLDING SAFETY WITH SCAFF LOAD

Improving safety and reducing hazardous situations involving scaffolding is the goal of Polish newcomer Scaff Load S.A., at the show as part of the Startup Programme. The Warsaw-based company (A014A) has developed and patented a system of devices, software, and a mobile application that monitors the load on the structure and, in the event of excessive loads, activates an alarm system, thus increasing user safety and protection.

The Scaff Load system is adapted for monitoring and managing scaffolding structures at every stage of the operation process. The company says integrating the system with a mobile application allows for online monitoring and reduces operating costs by utilizing the structure.

"Effective management and technical control directly impacts the safety of the structure and financial control," the company says, as well as reducing theft, administration, operating times, and downtime.

The system has already won the minister's award in the Polish occupational safety improvement competition and received expert recognition from the European Economic Congress in Katowice 2025.



A BIG BOOST FOR STARTUPS

The popular Startup Programme returns to WNE 2025 with new ideas, products and processes from 20 of the brightest SMEs in the global nuclear family. The programme participants have been selected for the originality of potential viability of their innovations. At WNE, they will have the opportunity to make their business case to investors and decision-makers, while enjoying the networking that comes with the elevated profile afforded by the Startup Programme. Typical of the 20 selected SMEs are the journeys of Atom XR, Sarcomere Dynamics, and Scaff Load

ADVERTORIAL SNETP: EMPOWERING THE NUCLEAR COMMUNITY

SNETP, the Sustainable Nuclear Energy Technology Platform, unites industry, all major European R&D organisations, academia, and startups to accelerate nuclear innovation across Europe.

Our work spans three key areas: enhancing the safety and efficiency of today's reactors, developing advanced systems to recycle fuel and reduce waste, and exploring novel applications of nuclear energy, including clean hydrogen production and industrial heat solutions.

As a member-driven association, SNETP empowers its community by providing clear R&D priorities, opportunities to connect with partners

through our Open Innovation Platform (SOIP), access to EU funding initiatives, and visibility via our newsletters, events, and communications channels.

Visit us at the WNE Startup Village, where we actively support startups through mentoring, networking, and collaborative opportunities. Meet our team, showcase your ideas, and discover how partnering with SNETP can help accelerate your innovation and bring your solutions to the European nuclear market.

Website: snetp.eu
LinkedIn: [linkedin.com/company/snetp](https://www.linkedin.com/company/snetp)



XR FOR THE NUCLEAR ENVIRONMENT

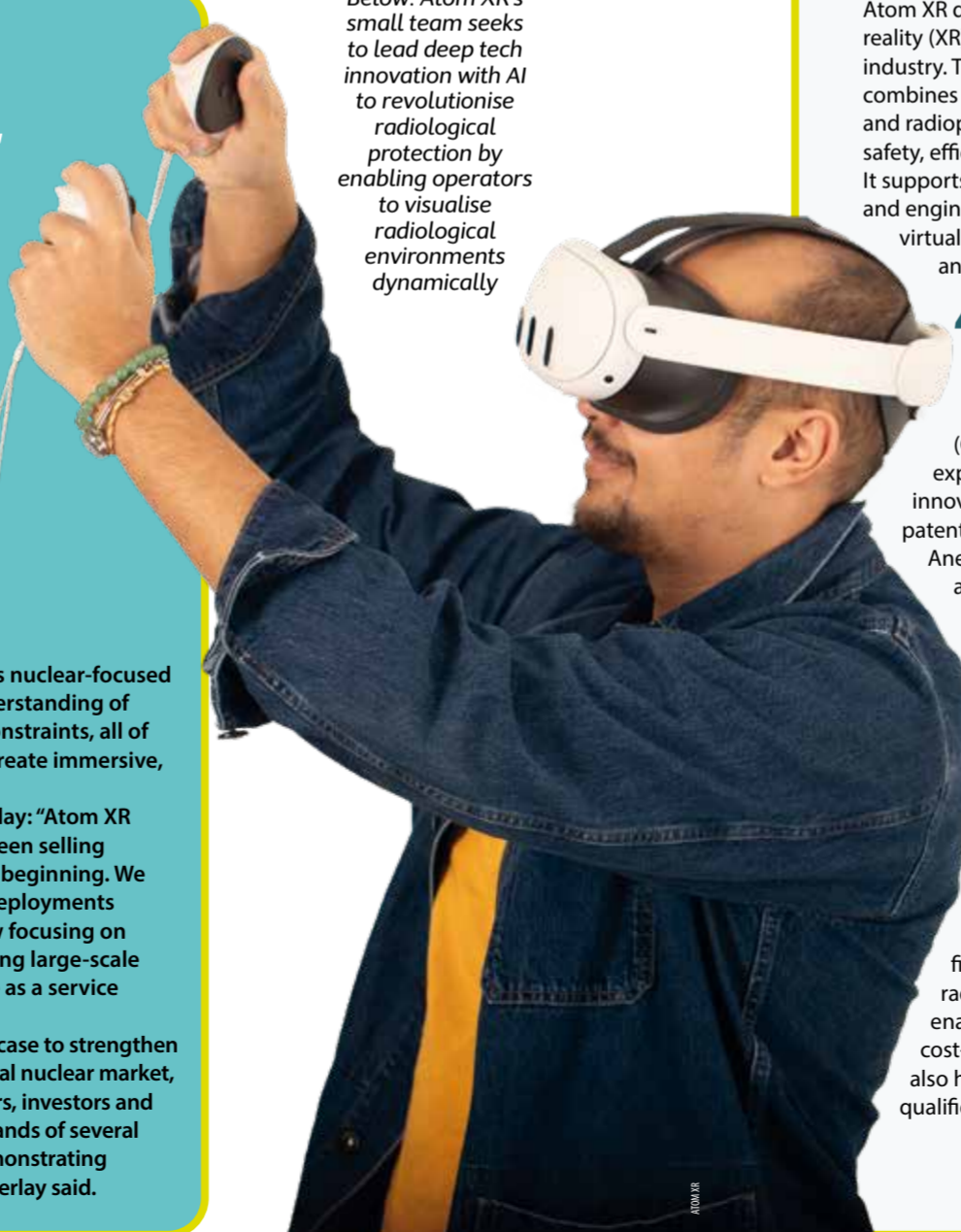
French startup Atom XR (A011A) was founded in 2024 with support from CEA's Magellan incubation programme to bring the best of extended reality (XR) to the nuclear industry. Its small team seeks to lead deep tech innovation with AI to revolutionise radiological protection by enabling operators to visualise radiological environments dynamically.

Chief executive Fabien Ferlay says the company builds bespoke XR solutions with modular reusable software 'bricks'. Through its nuclear-focused expertise, Atom XR has a strong understanding of safety, regulatory and operational constraints, all of which help it combine XR and AI to create immersive, intelligent and secure environments.

Success has come quickly. Said Ferlay: "Atom XR has had clients from Day 1 and has been selling services and solutions since the very beginning. We have already achieved commercial deployments with nuclear stakeholders. We're now focusing on expanding product lines and preparing large-scale standardised software and hardware as a service (SaaS/HaaS) offers."

The company views WNE as a showcase to strengthen its visibility and credibility in the global nuclear market, with potential to bring in new partners, investors and clients. Its work can be seen on the stands of several partners and clients at the show, "demonstrating adoption and trust in our solutions," Ferlay said.

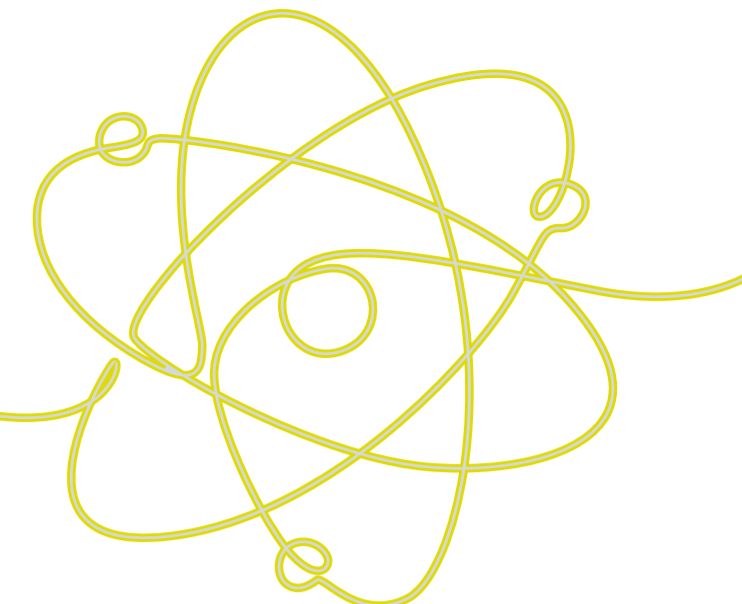
Below: Atom XR's small team seeks to lead deep tech innovation with AI to revolutionise radiological protection by enabling operators to visualise radiological environments dynamically



STARTUP SUMMARIES

A little about the 20 companies in our Startup Program

START-UP SPONSORS



1 AM3L

3D-printed shock absorbers

AM3L designs and manufactures metallic metamaterials for safety-critical industries. Its flagship 3D-printed shock absorbers, with up to 95% porosity, are qualified by the CEA and validated by ASN for nuclear waste container protection. The company controls the full value chain to ensure traceability and nuclear-grade quality.

2 ARALE LABORATORY

Gamma ray imaging technologies

Arale Laboratory produces various innovative technologies in the field of radiation imaging. The South Korean firm has developed systems including radiation detectors for national security and clinical and pre-clinical diagnostic nuclear medicine imaging systems for national healthcare.

3 ATOM XR

Extended reality for the nuclear industry

Atom XR develops innovative extended reality (XR) solutions for the nuclear industry. The company's software suite combines immersive training, digital twins and radioprotection simulation to improve safety, efficiency and knowledge transfer. It supports operators, trainers and engineers with tools that connect virtual environments to real machines and processes.

4 CLEAN CORE THORIUM ENERGY

Thorium fuels innovation

Clean Core Thorium Energy (CCTE) is a nuclear fuel company exploring Thorium-driven nuclear innovations. US-based CCTE's patented nuclear fuel technology, Aneel, comprises Thorium and high assay low-enriched Uranium (HALEU) and is capable of improving the safety and cost-efficiency of pressurised heavy-water reactors.

5 EXANODIA

AI software for non-destructive testing

Exanodia specialises in the development of AI software for non-destructive testing (NDT). The Lyon-based startup's first product, Smart-RT, automates radiographic image analysis, enabling faster, more reliable and cost-effective inspections – while also helping address the shortage of qualified NDT operators.

6 EXODYS ENERGY

Turning nuclear waste into clean energy

Exodys Energy is developing closed-loop nuclear systems to recycle used nuclear fuel to supply clean energy. The New York-based firm's technology allows for the recovery of more than 85% of valuable materials for reuse in current and advanced reactors. This reduces the volume and radiotoxicity of the waste, while also securing energy supply.

7 FLUID WIRE ROBOTICS

Rugged arm to withstand extreme conditions

Fluid Wire Robotics (FWR) is a deep tech startup that has built a rugged electric robot arm capable of operating in the most challenging conditions, including radioactive and high temperature zones, explosive environments, underwater depths, and space. The sensors and electronics reside in a shielded actuation box, keeping the arm lightweight and electronics free.

8 GRAPHICORE

Tackling the dismantling bottleneck

GraphiCore has developed patented technologies to tackle one of the biggest bottlenecks in nuclear decommissioning: the dismantling of graphite-moderated reactors. The firm's proprietary systems enable the safe extraction and handling of intact, broken and damaged graphite blocks, an industry-first solution.

9 HYLENR TECHNOLOGIES

Cleaner energy through LENR technology

Hylenn Technologies develops revolutionary reactors based on low energy nuclear reaction (LENR) technology, offering a clean, safe and sustainable source of heat for industrial applications. Its compact and emission-free solutions enable high-efficiency decentralised thermal production, suitable for sectors such as energy, chemicals, oil and gas.

10 ICE9 ROBOTICS

Robotic solutions for hazardous environments

Ice9 Robotics produces and deploys mobile robotic solutions to inspect and characterise hazardous environments. Primarily working in the nuclear decommissioning sector, the UK firm has a range of technology that can be deployed in GPS-denied, pitch-black and confined spaces to gather actionable data in a payload agnostic package.

11 INSPECTO

Software solutions worth close inspection

Inspecto offers a ready-to-use software solution for digitising inspections, audits and quality management. Its platform is designed for highly regulated sectors, such as nuclear, energy, aerospace and defence. It helps companies comply with ISO standards, while strengthening traceability, performance and reliability.

12 IUMTEK

Delivering real-time chemical analysis

iUmtek tackles the challenges of the nuclear industry by offering innovative solutions for in situ and real-time chemical analysis in hostile environments. The French startup's instruments and software applications are tailored to user requirements, allowing them to optimise processes and mitigate risks through online monitoring.

13 LIUM

Aerial eye to monitor sensitive sites

Lium has created an autonomous captive balloon dedicated to the continuous monitoring of sensitive sites. Called Horus, the balloon is equipped with smart sensors and onboard AI to detect fires, gas leaks and intrusions in real time. Unlike drones, it requires neither a pilot nor complex authorisations, and ensures persistent coverage over several thousand hectares.

14 NEEXT ENGINEERING

Reactive fluids for efficiency gains

Neext Engineering is developing innovative heat-to-electricity conversion systems that promise an efficiency increase of more than 30%, while supporting the energy transition and industrial decarbonisation. Using patented technology developed from CNRS research, its systems replace the working fluid of a reactor's thermodynamic cycle with new reactive fluids that provide additional enthalpy.

15 NIO ROBOTICS

Robot eases inspection and maintenance tasks

Nio Robotics has developed Aru, a service robot designed to revolutionise industrial inspection and maintenance. Aru can manipulate objects and change shape in complex environments, performing tasks in confined and hazardous environments. From opening doors to conducting thermal inspections, Aru ensures operational efficiency, enhances safety and reduces downtime.

16 OTRERA NEW ENERGY

Developing next-generation nuclear reactors

Otrera New Energy is a French firm specialising in the development of next-generation nuclear reactors. The company is developing an advanced small and modular Sodium-cooled reactor to produce affordable, low-carbon electricity and heat (100-150°C, up to 500°C) for cities and industry (datacentres, e-fuel production, district heating, etc) by 2032.

17 PAINTUP

Semi-autonomous robot for nuclear dismantling

PaintUP designs and develops large-scale mobile robotic systems for industrial applications. That includes CleanUP, a compact semi-autonomous robot capable of reaching 10m high walls and ceilings for safe and efficient nuclear facility decontamination. It maps radiation, extracts hazardous dust and takes samples, without requiring scaffolding.

18 SARCOMERE DYNAMICS

Helping hand for intricate tasks

Sarcomere Dynamics is bringing to market a near-human robotic hand that can perform complex tasks with high dexterity and precision. Using its patent-pending actuator technology, the firm is building compact robotics without sacrificing functionality or grip force.

19 SCAFF LOAD SA

Smart system for scaffold load monitoring

Scaff Load has developed and patented an innovative system combining devices, software and a mobile app to improve safety and reduce risks in scaffolding. It monitors structural loads online, in real time, triggering alarms in case of overloads to protect users and prevent accidents, downtime and financial losses.

20 SERAC IMAGING SYSTEMS

Real time gamma-optical video imaging

Serac Imaging has designed Seracam, a portable gamma-optical video camera allowing operators to pinpoint radioactive sources with surgical precision at the point of use. Live gamma video images are fused with a live optical video stream showing the operator the location of sources and watching them move in real time. Seracam is a configurable, modular platform technology for hands-free or hand-held operation, and can be mounted on robotic arms or remote-operated vehicles.

3 QUESTIONS

with Petra Lundström, executive vice-president, Nuclear Generation, Fortum (G048)

Each year, we select one key nuclear industry event to attend, representing the full scope of the nuclear business activities and experience we have built up over more than 45 years of safe operations in Finland and Sweden.

WNE was the clear choice this year, as it offers an excellent setting for meetings, networking, and showcasing our expertise. For example, Fortum provides expert services across the entire lifecycle of a nuclear power plant to customers worldwide, and we are pleased to present our products and services at WNE 2025.

In our view, the current challenges in the nuclear industry are related to profitability and the sector's ability to renew itself. More nuclear power is needed in the increasingly electrified world, but the question is how we can complete new nuclear projects profitably and efficiently.

At Fortum, we are currently considering how to get onto a learning curve that will make this possible in the future. We believe that a long-term and carefully planned preparation is one key to success in new nuclear projects.

I am absolutely looking forward to meeting nuclear colleagues at WNE, having good discussions, and hopefully generating a lot of new ideas and initiatives.



KHNP Lands first contract in Europe



The APR-1400 model on show at Dooshan/KHNP stand is the model supplied to UAE

South Korea's KHNP (K/L058) is set to start building its first nuclear power reactor in Europe by 2028/29.

It comes after the Czech Republic prime minister, Petra Fiala, signed a \$18 billion deal in June that will see two Doosan AP-1000-megawatt reactors built at the Dukovany nuclear facility.

A Doosan spokesman (K058) said the AP-1000 is made up of two loops, two steam gauges and four reactor coolant pumps. The work should be completed in 2036 with up to 2,000 people employed at the site.

The unsuccessful bidder in the Czech Republic, EDF, had earlier challenged the tender award and won an injunction that halted the contract signing which was initially planned for 7 May. Following an appeal by the Czech state-controlled company EDU II and KHNP, the injunction was overturned.

Doosan is the sole supplier of nuclear reactors to KHNP, and cut its teeth in the nuclear industry in 1965, for the South Korean market. To date it has built 34 reactors – 26 for South Korea, four APR-1400s for UAE and up to four AP-1000s have been sold to China. It will also be supplying AP-1000s to USA's Westinghouse.

Day Two Exhibitors events

13:30-15:00
Frazer-Nash Consultancy (N045) Cocktail

15:00-16:30
CZECH PAVILION – POWER PLAY (B004/004D) Networking event

16:00-18:00
WALES PAVILION (B030) Reception

18:00-19:00
GERMAN PAVILION (B052) Beers & pretzels

Gen-IV science waits on decisions from policy-makers

Policy-makers hold the key to the future deployment of Generation IV (Gen-IV) systems, the topic of a workshop at 10:00 today.

The technology readiness levels (TLFs) of all six systems supported by the Generation IV International Forum (GIF) depend on national considerations and definitions that vary from one country to another, said GIF chair Stéphane Sarraide, director of Energy Programmes at CEA.

"We can acknowledge that the sodium-cooled fast reactor (SFR) and the very high temperature reactor (VHTR) appear closer to industrial deployment," he said. "Nevertheless, their industrial use largely depends on political decisions and national strategies supporting one technology or another, with the relevant fuel cycle."

A pilot project within the SFR system, involving industry partners, is under way. Sarraide said: "It took GIF considerable time to find the right balance for both parties, and we are now awaiting the results and progress of this project before launching others."

"Accelerating deployment is one of my priorities as GIF chair, and together with my team, we are working to achieve this objective by 2030. Our first step was to establish a biannual industry round table – open to all – in every region where the GIF is active, to share knowledge, processes, and ways of advancing both technologically and financially."

Generation IV International Forum (GIF): accelerating the deployment of the 4th Generation, organised by CEA, 10:30, Workshop Room 3



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Presence on 18 nuclear plants – 2,800 employees – 900 cranes – 200 SPMT lines – 3,000 pieces of equipment – 100 trailers



1



2



3

Eight awards, four for big companies and four for SMEs, were presented yesterday evening as the winners of the fifth WNE Innovation Awards were revealed

GR-8 EXPECTATIONS



4

BOOSTING NUCLEAR INSTALLATION PERFORMANCE AND LTO

- 1) SMEs/VSEs: CORE Energy Systems
- 2) Big groups: EDF

CONTRIBUTING TO MORE ADAPTIVE SOLUTIONS TO NEW CHALLENGES

- 3) SMEs/VSEs: GraphiCore
- 4) Big groups: Westinghouse Electric

OPTIMISING CONSTRUCTION COSTS AND LEAD TIMES

- 5. SMEs/VSEs: Spaciotempo
- 6. Big groups: AIC

INNOVATING BEYOND ELECTRICITY

- 7. SMEs/VSEs: Calogena
- 8. Big groups: Framatome



7



5



6



MORE INFO

Scan the QR code to learn more about all of our 2025 Innovation Award entrants



8



There are 24 national pavilions at WNE, a quarter of which are taking space for the first time

ADVERTORIAL

LESS WATER, MORE POWER



The risk of water scarcity can have significant negative impact on a nuclear site. As extreme conditions become more prevalent, so demand intensifies for reliable cooling systems. Budapest-based MVM EGI – which has the world's only dry-cooling reference for a nuclear plant – offers a solution for nuclear plant operators with its hybrid, dry and wet cooling systems.

Designed to meet the challenges of nuclear energy, from large-scale NPPs to SMRs, they reduce risk, save water and ensure stable performance in harsh environments.

These solutions draw on more than 75 years of experience to help operators around the world reduce water consumption, secure permits in drought-prone areas, and ensure long-term performance under extreme climatic and regulatory conditions.

MVM EGI (D128) delivers not just cooling systems, but strategic outcomes: lower risk, better ESG positioning, and greater peace of mind.

Top: Indirect dry cooling system, Hamitabat, and below: MVM EGI Teshrin



3 QUESTIONS

with Issam Taleb, partner of EY-Parthenon (F138)

A leader in the energy consulting field, EY recognises the importance of having a presence at all relevant trade shows. WNE is a key event for the consultancy, given its close and historical working relationship with several nuclear value chains at global level.

Within EY, EY-Parthenon offers a broad range of services from strategy to transactions support with functional and industry depth. The company's strategists help nuclear supply chains maximise their value today while reshaping their businesses to meet tomorrow's growth needs.

Partner Issam Taleb said recent strategic reports produced by EY-Parthenon included studies on the true power of SMRs; the remuneration models and financing structures of the Dutch nuclear new build (NNB) programme; risks and opportunities for mining and metals in 2025; and an independent review of economic analyses of Slovenia's JEK2 project. "Those documents showcase EY capabilities when it comes to the nuclear sector and wider energy sector," he said.

A new white paper prepared by EY-Parthenon about financing the civil nuclear industry at a global level will be published during WNE. Presentation of this new thought leadership was a highlight of the company's session on 4 November.

3 QUESTIONS

with Laurent Odeh, chief commercial officer of Urenco (C030)

WNE is the leading civil nuclear exhibition around the globe, so it's incredibly important to us to showcase the company, our existing and new areas of business and to strengthen industry relationships. The exhibition also provides a fantastic base to network, explore contemporary issues in the industry and learn about newcomers.

We are investing in our LEU capacity at all four of our enrichment sites as a result of the increased demand for nuclear energy globally. The first enrichment capacity came online this year, with more to come, and we have the option to further expand when the market requires it.

We are also taking advanced fuels forward to power small and advanced modular reactors. For this, we are building an advanced fuels facility to produce HALEU fuel, with the co-investment of the UK government.

The market for isotopes with medical, industrial and research applications continues to grow, and our newest Urenco Isotope installation, named Blaise Pascal, has gone live, strengthening our position.

We expect an even bigger and better show than WNE 2023, which will take some doing! The momentum in nuclear since the last show has continued to gain pace, so we are excited to be a part of this again.



SEALING SOLUTIONS FROM FAMILY FIRM

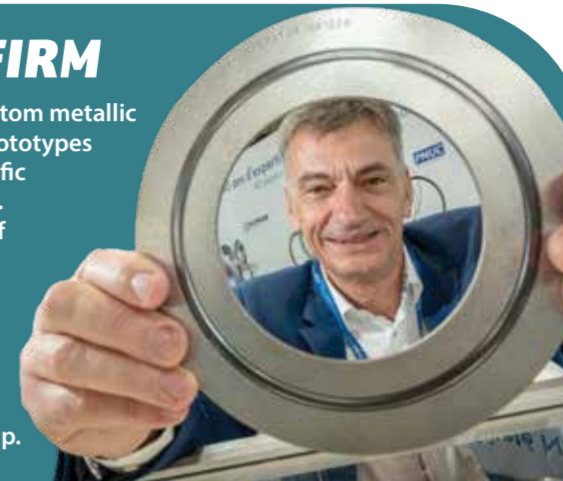
The Efire Group (C084), a French family-owned group founded in 1872, is at WNE 2025 to share its expertise in custom-made technical sealing solutions for the safety and performance of nuclear facilities and equipment.

Graphite die-cast ring seals, spiral wound gaskets, ribbed gaskets, and other metallic and semi-metallic seals are among proven, PMUC-certified solutions are on display on Efire's stand.

Recognised for its expertise in precision cutting and machining, Efire is showcasing its

expertise in the design of custom metallic and composite seals, from prototypes to small series, meeting specific requirements of each project.

"With more than 40 years of experience in the industry, we support our customers in the design and reliability of components essential to nuclear safety," says Etienne Burnichon (pictured), nuclear market manager of Efire Group.



Brazilian delegation celebrates country's first ever pavilion at WNE

NEW NATIONS COME TO THE WNE PARTY

Brazil, South Africa and India, three of the six so-called BRICS nations, are among the countries mounting national pavilions for the first time at WNE 2025.

There are 24 national pavilions at WNE, a quarter of which are taking space for the first time. Hungary, Kazakhstan and Ukraine are also exhibiting here for the first time.

The Brazilian presence is led by the Brazilian Association for the Development of Nuclear Activities (ABDAN), which has brought together several key players in the country's developing nuclear sector.

They include nuclear technology developer Amazul and engineering and software systems provider Atech. The pavilion also features coal-to-nuclear transition specialist Diamante Energia, as well as INB, which leads Brazil's nuclear fuel cycle, producing uranium and fuel elements.

Brazil is carrying out work on a new multipurpose reactor. State-owned South African Nuclear Energy Corporation (Necsa) meanwhile is leading the country's national pavilion at the show.

Necsa carries out research and development

in the field of nuclear energy and radiation sciences and technology, offering a range of nuclear-related and non-nuclear products and services. South African power utilities firm Eksom and radioactive waste disposal specialist NRD are also sharing the pavilion.

South Africa has had the SAFARI-1 research reactor in operation since 1965, while plans are under way for a new multipurpose research reactor.

Elsewhere in Africa, Egypt is currently constructing a plant and the International Atomic Energy Association (IAEA) says 13 other countries – including Gambia, Kenya and Nigeria – are planning or considering adopting nuclear technology.

The IAEA reports that by 2050, Africa's electricity capacity is expected to rise significantly. In a high case scenario, nuclear capacity could triple by 2030 and increase tenfold by 2050. The debuts this year of Brazil, South Africa and India mean that the four BRICS countries able to exhibit at the event are in attendance. China is already an established exhibitor, while Russia is currently subject to ongoing sanctions.

COMPRESSOR SPECIALIST COMMITTED TO NUCLEAR

Girodin-Sauer (P133), the French subsidiary of the Sauer Compressors Group of Germany, is at WNE for the first time to promote its expertise in the nuclear sector. A leader in the design, installation, and maintenance of industrial compressors, its commitment to the nuclear field is built on decades of experience, with hundreds of compressors installed worldwide.

SYSTEMS BASED ON BALL BEARING TECH

French company ADR (A102) is at WNE for the first time. Located in Ile-de-France, ADR designs and manufactures rotating systems based on ball bearing technology. Custom-made, its bearings operate in demanding environments including aeronautics, space, defence and security, medical, and in the energy sector. ADR products include high-precision ball bearings, integrated ball bearings, and sub-systems.

ADVERTORIAL



CONNECTED RISK MANAGEMENT IN THE NUCLEAR SUPPLY CHAIN

As global energy demand grows and the transition to net zero accelerates, nuclear power plays a vital role in securing a sustainable energy future. Managing the nuclear supply chain, however, requires navigating complex regulatory, technical, and operational risks.

LRQA (C080) partners with organisations throughout the entire nuclear plant lifecycle – from design and construction to operation and decommissioning. Its connected portfolio spans equipment inspection and certification, project assurance, technical advisory, and supply chain and vendor inspections. Together,

these services help ensure compliance with international standards, maintain integrity, and build confidence across global operations.

From ISO 19443, ASME and RCC-M inspections to regulatory training, GHG verification, and supplier assessments, LRQA provides independent assurance and practical insight grounded in decades of sector expertise.

Through people, data and technology, LRQA helps clients turn risk into opportunity – supporting safer, stronger, and more sustainable nuclear supply chains worldwide.



SIEMENS

VISIT US AT BOOTH C018 AND MEET OUR EXPERTS

Transforming the nuclear lifecycle

Join our exclusive workshop Lifecycle intelligence: leveraging CALM to unify design, construction and operations in nuclear infrastructure Wednesday, November 5 - 17:00-17:40, Workshop room 2 [siemens.com/software](https://www.siemens.com/software)



ADVERTORIAL



DESIGN, LICENSE, BUILD – REPEAT: A NEW PARADIGM FOR NUCLEAR 3.0.

From licensing and design to construction and operation, nuclear teams face a combination of fragmented tools, isolated data, limited automation, and supply chain disruptions that ultimately increase financial risks, delays, and cost overruns.

CAELUS (P130) is redefining how the nuclear industry works, thinks, and connects. We design the digital infrastructure that powers the new Nuclear 3.0. Through licensing intelligence, AI-driven processes, and supply chain qualification, CAELUS brings all stakeholders – from regulators to reactor designers, utilities and EPCs – into one unified ecosystem.

Our suite enables organisations to streamline compliance, optimise engineering, and accelerate deployment

with transparency and trust. Our partner programmes empower project developers, engineering consultancies and manufacturers to collaborate through tailored qualification and integration pathways, while regulators engage via our regulatory OS to co-assess and refine digital regulatory applications, thus enhancing oversight and efficiency in the whole process.

Supported by our operational technologies and ancillary services, CAELUS ensures seamless execution through AI-native processes and advanced digital tools. Operating across Europe, Asia, and Africa, we bridge innovation and governance to enable faster and smarter nuclear development. CAELUS is powering the "design, license, build repeat" future of global nuclear innovation.

BOOKSHOP

TODAY'S SIGNING SESSIONS AT THE EPHEMERAL LIBRARY

10:30-11:30
ÉNERGIE NUCLEAIRE : LE VRAI RISQUE
Dominique Louis, CEO, Assystem

11:45-13:00 & 15:00-17:00
ÉNERGIES, FAKE OR NOT? CONSTRUIRE NOTRE AVENIR ET DECARBONER NOTRE ÉNERGIE SANS FAKE NEWS: TRANSITION ÉNERGETIQUE, ÉNERGIES FOSSILES, ÉNERGIES RENOUVELABLES, ÉLECTRICITÉ VERTE, NUCLEAIRE
Maxence Cordiez, Head of Nuclear Fuel Cycle, Hexana

HOMO ENERGETICUS POUR UNE TRANSITION BAS CARBONE
Stéphane Sarrade, Director of Energy Programs, CEA

L'ÉNERGIE NUCLEAIRE EN 100 QUESTIONS POUR UN MONDE EN TRANSITION
Maxence Cordiez and Stéphane Sarrade

2,667 TWh 

Last year marked a record global electricity generation from nuclear - 2,667 terawatt hours of electricity, avoiding more than 2.1 billion tonnes of carbon dioxide emissions

KEYNOTE SPEECH SAMA BILBAO Y LEÓN, DIRECTOR GENERAL OF THE WORLD NUCLEAR ASSOCIATION

A CONSOLIDATED CALL TO ACTION

In her keynote address yesterday, Dr Sama Bilbao y León (pictured), director general of the World Nuclear Association, reflected on the progress made since COP 28 recognised nuclear as one of the energy sources that needs to be accelerated to meet climate change goals.

She spoke of how the historical ministerial declaration to triple global nuclear capacity by 2050 set a clear goal, and the means to ensure it was achieved.

She said: "We now have more than 14 banks and financial institutions supporting this tripling of global nuclear capacity. We have many large energy users including Google, Amazon, Meta, Dow Chemical, and Occidental supporting nuclear development.

"Nuclear has moved from the margins of the

energy discourse to take front and centre in global climate action."

She congratulated the gathered industry, commenting that "last year marked a record global electricity generation from nuclear - 2,667 terawatt hours of electricity, avoiding more than 2.1 billion tonnes of carbon dioxide emissions."

However, she urged them to strive for more.

Next week at COP 30, the WNA will be working to influence and inform decision-makers, hoping to add more countries to the declaration. The event will also see WNA release the first report on progress made since COP28.

Bilbao emphasized: "Declarations alone are not enough. We need to now deliver. So our tripling movement cannot just be a slogan, it needs to be a call for action."



“ Nuclear has moved from the margins of the energy discourse to take front and centre in the global climate action. The groundwork has been laid, but the path ahead requires unity, a sense of urgency and unwavering commitment

KEYNOTE SPEECH DR LASSINA ZERBO, CHAIRMAN OF THE RWANDA ATOMIC ENERGY BOARD

SMRS OFFER 'PRACTICAL SOLUTION' FOR AFRICA: ZERBO

"The potential of nuclear power in Africa is immense." So says Dr Lassina Zerbo, chairman of the Rwanda Atomic Energy Board (RAEB), energy advisor to the Rwandan president, and a noted 'nuclear science diplomat'.

In a WNE keynote speech this afternoon, Dr Zerbo will lay out an energy vision for the continent that is "ambitious yet essential" and focuses on SMRs and micro reactors, which he says offer Africa a real opportunity to transform its energy landscape.

With enhanced international cooperation, the continent can

build a safer, cleaner energy future, while improving the quality of life for millions of Africans, he says.

At present, South Africa is the only African country operating a commercial nuclear power plant (NPP). Egypt is building its first NPP. Dr Zerbo sees SMRs as "a practical, scalable solution for Africa's baseload and its resilience and industrialisation goals".

"Rapidly growing populations and economies require an energy sector that is not only expansive but sustainable.

Africa is not just a participant in the global energy conversation," he says. "We are leaders, innovators,

and stakeholders, shaping the future of clean energy solutions."









Dr Zerbo will address several big questions today, including industrial partnerships and "bankable projects" aligned with IAEA milestones and strong governance; workforce development and regional supply chains to localise value creation; and financing models that de-risk first-of-a-kind deployments and accelerate time-to-power.

The global industry has a unique opportunity to work with Africa to meet these demands while tackling climate change, he says.



 Keynote speech with Dr Lassina Zerbo, main stage, 17:00

DAY TWO Main Stage Programme

-  **09:30-09:45**
Keynote speech: Xavier Ursat, president, GIFEN
-  **09:45-11:00**
Panel discussion: Bridging the gap financing the nuclear renaissance: from policy support mechanism to new financing solutions
-  **11:15-12:30**
Panel discussion: From breakthroughs to industry: delivering fusion at global scale
-  **14:00-14:45**
Assystem Tribune: First of a kind without failure: how new nuclear players can deliver with confidence
-  **15:00-15:45**
Framatome Tribune: Key enablers for the competitiveness and resilience of nuclear energy
-  **16:00-16:45**
Westinghouse Tribune: Digital and nuclear: the perfect match to accelerate nuclear deployment and innovate in nuclear operations
-  **17:00-17:15**
Keynote speech: Lassina Zerbo, chair, Rwanda Atomic Energy Board
-  **17:15-18:30**
Panel discussion: Standardisation in the global nuclear industry: pathways and challenges



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- Isotopes & Radioactive sources
- Services to nuclear operators & Maintenance
- Nuclear transport, storage & packaging
- SMR / AMR & Nuclear fuel cycle
- Uranium: Mining, Conversion & Enrichment

inbrief

NORDIC NEIGHBOURS JOIN FORCES WITH MOU

Three Nordic countries signed a memorandum of understanding (MoU) yesterday at the show to promote joint activities and industrial capability building across their territories, enhance regional supply chains, and build an industry collaboration capable of addressing future needs of the European nuclear fleet. The agreement, signed between FinNuclear Association, NuclearSweden, and the Norwegian Nuclear Association, aims to strengthen their respective industries, enhance cooperation, and foster cross-border partnerships to accelerate capability-building and industrial development in the Nordic and European nuclear ecosystem.

3
Day three

1

Cooperation is key
Ensuring success through partnerships

SEE P2



2

Upsurge in interest
Polish industry out in force

SEE P4



3

Food for thought
IAEA tool to fight adulteration

SEE P8



WNE DAILY



NOVEMBER 06 2025 // PARIS NORD VILLEPINTE

INVESTORS TAKE NEW LOOK AT NUCLEAR



Increased momentum and understanding of the nuclear sector is helping to remove some of the perceived risks for investment, helping to open the industry up for much-needed private financing.

"The perceived risk is changing a lot and it is changing in a more positive way and at a very fast pace," Issam Taleb, a partner at EY-Parthenon France in the Energy and Resources sector, said during a panel session on financing yesterday.

"Two years ago, I would say the private equity contacts we had were not willing to address that market," he said. But, pointing to the changed political discourse and increased momentum for nuclear energy, Taleb said investors wanted to be educated about the industry. "There is momentum for [investor] newcomers. It is changing a lot."

Jasbir Singh Sidhu, former president of the Nuclear Institute and part of Nuclear Capital, concurred, pointing to the significance of nuclear being viewed as "critical national infrastructure".

"I've noticed there are many, many more private equity investors really looking at

nuclear," he said. "There was a moratorium at certain infrastructure funds on investing in nuclear because it was not an asset class that they would touch. That has changed.

"Banks have woken up to the idea of investing in nuclear and [are] eyeing up projects. But they have to be bankable projects."

Notably, in June, World Bank Group formalised a partnership with IAEA on supporting nuclear energy in developing countries, marking its first concrete step to re-engage with nuclear power in decades.

"The World Bank is looking at investing in nuclear. Why is that? It's because they realise nuclear is part of the critical national infrastructure, not just for each nation state, but for the world now," Sidhu said. "So, there are many, many players coming into the market."

Speaking earlier during the wide-ranging session, Boris Schucht, chief executive of enrichment and fuel cycle services provider Urenco, pointed to the recent "very good sign" of private financing secured for the Sizewell C nuclear newbuild in the UK.

"When money is going in one direction,

other money will follow. And we are seeing that," Schucht said, noting that this is in part being driven by political momentum, such as government pledges to triple nuclear power share.

"It's not only a political ambition anymore. It is now step-by-step, country-by-country, translated into business and political actions. That creates momentum and momentum attracts money," he said.

Schucht also pointed to the significance of such action in helping to provide stability, a requisite for investment given the long-term nature of projects in the industry. "That creates the momentum that convinces investors, convinces the market of stability," he said.

● The panel also featured insights from former French minister and entrepreneur **Arnaud Montebourg**, executive vice-president of overseas business division at South Korea's KHNP, **Insik Park**, and from **Markus Rauramo**, chief executive of Nordic clean energy firm Fortum – who is also current president of trade body Eurelectric.

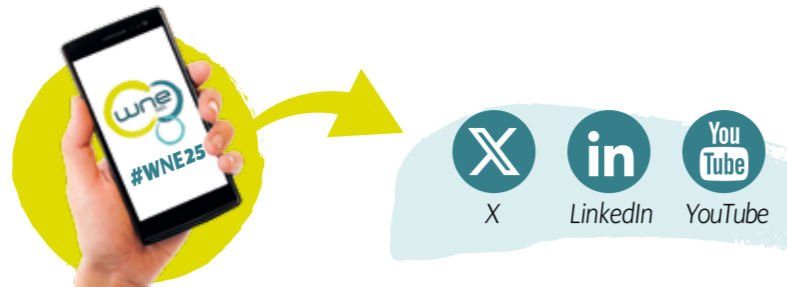
“
The perceived risk is changing a lot and it is changing in a more positive way and at a very fast pace

Issam Taleb
EY-Parthenon France

Fresh take on financing: panel debates how to best to secure funding for revived nuclear sector



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Day Three Exhibitors event

13:30-15:00 Pavillon République Tchèque CZECH ENERGY MIX Networking - Pavillon B004, B004D

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Cooperation is the key to global success



GIFEN chairman Xavier Ursat (pictured), speaking yesterday, stressed the need for cooperation to meet the expectations that surround the nuclear industry.

"Cooperation is still a cornerstone to meet the future needs of our industry," Ursat said, in a keynote address. "Cooperation inside the supply chain, cooperation at the European level and cooperation worldwide.

"Together through strong partnerships we can ensure the success of our shared goals. Strengthening the European supply chain would give better flexibility in terms of resources and additional capacity, as well as a stronger and more sovereign industry."

In outlining key challenges around delivery and sovereignty, Ursat also stressed the importance of maintaining safety. "Without safety and security, there cannot be nuclear success," he said. "This is the bedrock of our public trust."

WORKSHOP

CIRCULAR ECONOMY APPROACH SUPPORTS SUSTAINABLE FUTURE

Industry's linear economic model is no longer feasible. The circular economy approach enables sustainability, reducing the environmental impact and conserving resources for future generations, and is the subject of a workshop at WNE today presented by Cyclife, an EDF subsidiary.

Cyclife has championed this approach in nuclear power, providing decommissioning and the management services for low and very low-level radioactive waste. Its plant in Sweden has been active for more than 30 years, recycling metals for reuse in conventional industry, and will double its capacity this year to meet growing demand.

recycling of large metal components, due to open in 2036.

Project manager Laurent Augé said the Technocentre will be a centralised metal recycling facility to process the approximately 500,000 tonnes of very-low level radioactive metals produced in France. The material, he said, would come from dismantling operations at EDF, Orano, CEA, as well as international projects.

"In terms of energy consumption and emission of CO₂, the production of secondary steel, from recycling consumes 40% less energy and emits 57% less greenhouse gases than its production by mining."



Cyclife's circular economy approach: 14:30, Workshop Room 2



JOB AND CAREERS PROGRAMME

INSPIRING FUTURE TALENT POOLS

Students visiting the show as part of the Job and Careers programme were surprised by Sébastien Martin, minister delegate for Industry, Finance and Industrial, Energy and Digital Sovereignty, in an impromptu conversation. He took the opportunity to talk about the opportunities the nuclear sector presents for the younger generation, the importance of the industry in combatting carbon emissions, and its need for qualified young talent.

TALENT CLUSTERS IN FRANCE'S NO 1 NUCLEAR REGION

The French pavilion yesterday hosted a delegation from Provence, highlighting the breadth of capabilities and facilities in France's first nuclear region.

Sylvie Bermann, Ambassador of France and President of WNE, introduced the unique nuclear cluster, outlining the extensive range of competences. She said: "The entire nuclear cycle is deployed in this cluster, [which] can be explained by the local presence of ITER, the largest fusion project worldwide."

She described the wide range of nuclear research and production facilities, training

centres and institutes, based in the region, supporting the industry's evolution.

"Provence is a region that is historically open to international trade, and Marseille is a truly global city," and is now the sixth largest digital hub in the world.

Pietro Barabaschi, director general of ITER, announced that, thanks to the regional support of international companies based in Provence, the ITER project "is going very well. We have a scheduled performance index, and we are executing at more than 100% execution rate. We are seven weeks ahead of schedule and we hope to gain even more."



3 QUESTIONS

with Jose Larios, president and CEO of Celeros Flow Technology (G113)

Our nuclear journey began more than 60 years ago with the first industrial-scale nuclear power plant. Since then, our pumps and valves have played a central role in major programmes worldwide.

WNE, the premier event in the global nuclear calendar, is an important platform to demonstrate our commitment to the industry and engage with stakeholders across the value chain, from operators and OEMs to regulators.

As gold sponsors, our presence underscores our role as a trusted partner and highlights our specialised solutions that support the long-term safety, reliability, and efficiency of nuclear plants.

The nuclear sector is transforming as part of the drive to meet demand for sustainable, reliable power. Key challenges for the industry include life extension, SMR development and supply chain resilience.

At Celeros FT, we deliver engineered upgrades and long-term service agreements, engage early in SMR design and strengthen supply chain security through regional manufacturing and qualification programmes.

Through our participation in WNE 2025, we aim to deepen industry connections, showcase advanced solutions and gain insights into SMRs and life extension projects, while cultivating new partnerships aligned with our growth strategy.



CHEERS! ASSYSTEM HITS 60TH ANNIVERSARY

Assystem was born from the excellence of the French nuclear industry, and that excellence continues to thrive, both in France and across the world. Today, a new vision is driving us forward: one of global ambition.

These were the words yesterday of the company's founder, Dominique Louis, as the company celebrated its 60th anniversary

at WNE. He said: "What has remained unchanged are the values that have guided us since the very beginning: we are skilled, we are happy, and we trust the younger generations.

"My main ambition is to ensure Assystem's long-term future. We work every day to keep Assystem an independent, family-owned company, and that's what

makes us successful. It's a great adventure, and I hope to see it continue for many years to come."

Earlier, Assystem (F030) and INSTN (G030B) renewed their long-standing collaboration and confirmed Assystem's support to INSTN through the apprenticeship tax, with the signing of a new three-year partnership agreement.

Under the agreement the partners will ensure that INSTN training programmes remain fully aligned with Assystem's professional skills needs; support and promote the involvement of its experts in INSTN training sessions; develop apprenticeship opportunities for INSTN students within Assystem teams; strengthen the links between the nuclear engineering programme, the master's in nuclear energy, and the RESNUC master's with Assystem's needs through the creation of student projects; and continue to deliver the two Assystem-labelled INSTN training courses: operation of nuclear facilities, and nuclear safety.

Assystem also signed a MoU with Metroscope (F064), a SaaS solutions provider specialising in performance diagnostics and predictive maintenance, for collaboration on data- and AI-driven solutions to anticipate failures, enhance maintenance reliability, and sustainably improve the performance of industrial assets across the energy sector, both in France and internationally.



Nuclear fizzy! Dominique Louis (left), chairman and founder of Assystem, raised a glass yesterday with Stéphane Aubarbier, deputy chief executive, at their company's 60th anniversary celebration at WNE

US promotes international partnership

It is a remarkable time for the nuclear industry in the United States. While worldwide there is a cascade of policies towards nuclear, the US government is demonstrating a consolidated policy

commitment across the political spectrum. The Trump administration is focusing on nuclear development in the US and within this decade the country intends to build new plants of all sizes – large, small, micro, with dozens of designs coming to the market – distinguishing the US as an innovator in the sector.

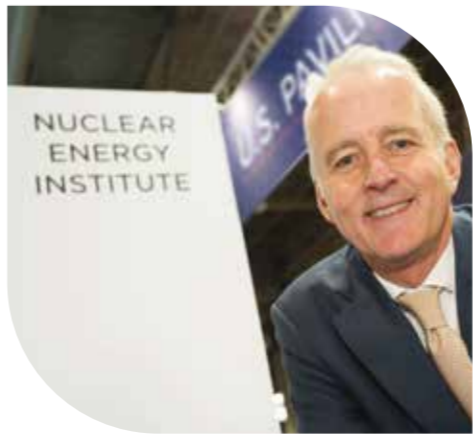
with the US is a long-term economic move, not just to create reliable and clean energy. "We are proud that this is part of the DNA of the US nuclear industry. We believe that countries are not just looking for electrons on the grid, they are looking for long-term economic benefits.

The Nuclear Energy Institute (NEI) team at the US pavilion at WNE 2025 (D020) says the government is also actively supporting partnerships with countries that are considering nuclear. It offers a long track record of industrial partnership and an opportunity to partner not just in their own countries, but in the US, which is set to be the world's largest open market.

"2025 has been remarkable. The Trump administration has been tremendously supportive in the tax credit space to support the US nuclear industry. On 23 May in the Oval Office, the President of the United States, with Maria Korsnick, president and chief executive of the NEI, signed four executive orders to promote the domestic and international nuclear industry.

Michael J Flannigan, NEI vice-president Governmental Affairs, said: "The US has a record of incorporating local companies into the global supply chains, so partnership

"The message from the US pavilion is that we have one of the strongest administrations in terms of international support for nuclear that we have seen in a long time," he added.



ORANO EXPANDS FUTURE-PROOFING PROGRAMME

The Orano group has signed three new engineering partnership agreements with Ametra, Assystem and Vulcan, in support of its Aval du futur programme.

plants, including a fuel unloading facility and a new MOX fuel fabrication plant facility, at the La Hague site, whose commissioning is scheduled for the early 2040s, as well as a new spent fuel processing plant planned for the mid-century.

engineering has over 70 years of know-how in the nuclear fuel cycle. It is currently undergoing a complete transformation to be ready to handle a project workload estimated to rise to over 10 million hours by 2030.

The signing ceremony, which took place on the Orano stand (H054), was attended by Claude Imauven, chairman of the Orano board, chief executive Nicolas Maes, Nicolas Ferrand, senior executive vice-president, Aval du futur programme, and Guillaume Dureau, Orano's director of engineering, as well as representatives of the partner companies.

Orano will also work to keep its existing facilities in operational condition as part of a program to ensure the long-term future and resilience.

"To rise to this challenge, we are leveraging all the resources at our disposal: recruitment, regional and local development, and, above all, stronger partnerships with recognized industry players. The extension of our engineering ecosystem is strengthening our capacity to design innovative and sustainable solutions for both our current and future projects."

Guillaume Dureau said: "These new partnerships mark a strategic step forward in the structuring of the Aval du futur programme and of our other projects in progress, including the sustainability-resilience programme. Orano's

Orano's Aval du futur programme aims to renew its nuclear fuel processing and recycling

92% of people in Poland support nuclear energy

3 QUESTIONS

with China National Nuclear Corporation (K022)

WNE is a renowned international event that showcases the advancements and opportunities within the nuclear energy industry. For China National Nuclear Corporation (CNNC), it offers a valuable platform to demonstrate our comprehensive capabilities across the full nuclear power spectrum.

Additionally, the exhibition serves as an ideal platform for engaging with global peers and exploring opportunities for international business development. It has set a benchmark for excellence and collaboration worldwide.

At CNNC, we are committed to advancing safe, efficient, and sustainable nuclear technologies to meet growing energy demands and support worldwide decarbonisation goals.

We provide stable zero-carbon power for emerging industries such as AI; we practice technology-driven development through open collaboration; and we promote a vision of a community with a shared future for mankind by advancing innovative applications such as nuclear-based hydrogen production and nuclear medicine.

To address industry-wide challenges and contribute China's solutions to worldwide decarbonisation, we are increasing R&D investment, accelerating digital transformation, and fostering open partnerships through expanded international collaboration.

We anticipate several important outcomes from our participation in WNE 2025.

Beyond showcasing our capabilities, we look forward to establishing new partnerships with international peers, engaging in technical exchanges with industry counterparts, and exploring wider opportunities for global collaboration.



Poland enjoys upsurge in nuclear industry

The Polish Pavilion (N082) at WNE 2025 is buzzing, with 37 companies represented, and Andrzej Sidlo, director of Poland's Ministry of Energy (pictured), is delighted with the gathering.

"This is my fifth time bringing the Polish pavilion to WNE," he said. "In 2016 we had only six companies. This year we have 50 companies with around 200 people across the exhibition."

As Poland prepares for its first nuclear project, with commissioning of the first unit due in 2035-36, the government is supporting the development of local talent to support the venture.

Sidlo said: "Although this is our first in-country development, we have a range of

companies that have nuclear experience, and are involved in projects mainly in Europe, but also in the USA, Canada, China, India, wherever there is nuclear development. This gives us a good start to localisation.

"The government is investing now in building skill levels in the industry and running training programmes for local companies. We are also working to develop the capacity of our regulator, as currently they are not able to work on a such a large-scale project."

He said there is great support for nuclear development in Poland: "92% of people in Poland support nuclear energy. They see it as the future of the country."



Pipe dreams: Alleima Tube's Peter Waller has seen an increase in interest

PIPE SPECIALIST SEES ORDER UPTICK

The array of piping on the Alleima Tube stand (G104), highlights the company's long history with the industry, recording five decades of supplying critical components to the nuclear sector and well over 60 million metres of nuclear fuel tubes delivered to more than 100 reactors worldwide.

Peter Waller, global product manager Steam Generator Tubing, said: "We have been making variants of these products since the 1960s. We are now working with a lot of Generation IV and SMR companies and continue to cover the full tube and pipe business."

He has seen an increase in interest from the industry. "This last year has been busier for orders than before. It seems that the show is bigger, and it has been very effective. We have been in contact with so many customers on the stand and walking around."

inbrief

PARTNERS ACHIEVE KEY FUEL PROCESS

Framatome and TerraPower have achieved a key milestone in uranium metallisation for advanced reactor fuel commercialisation after producing elements of uranium metal.

Announced during WNE, the companies say the metallic uranium 'pucks' represent a critical component in advancing the fuel supply chain for TerraPower's Natrium reactor.

The process, technologies and expertise used to produce metal from depleted uranium can be used with uranium at the higher enrichment levels required to power TerraPower's advanced reactor design.

TerraPower president Chris Levesque said the breakthrough demonstrates that the metallisation component of HALEU fuel can be manufactured domestically, supporting "plans to rapidly deploy Natrium plants across the United States".

The fabrication line was completed at Framatome's Richland, Washington, nuclear fuel manufacturing facility.



in focus

WINNING WAYS

Andrea Bachrata, president of WIN France (centre) is joined at WNE by Patricia Schindler, president of WIN PACA (left), and Haske Reiling, vice-president of WIN Netherlands, who were named winners of the second iteration of the WIN France Initiative Award - Europe Edition

EUROPEANS JOIN FORCES FOR DATA INITIATIVE

A consortium of six European nuclear and digital players have joined forces to create a sovereign and secure digital space for data exchange.

EDF, CAE, Dawax, GIFEN, Institut Mines-Telecom and Sopra Steria disclosed the new initiative, called Data4NuclearX, yesterday at the show.

Data4NuclearX aims to promote secure data exchange in support of the expanding industry, facilitating interaction between companies in the nuclear sector, management of complex projects and the acceleration of digitisation of the sector.

The project envisages design and scoping until 2027 and then a pilot phase on the first three priority uses.

Operational deployment will follow from 2028. The Data4NuclearX project is supported by the French government as part of its mastering sovereign digital technologies initiative, France 2030.



GEA Chief Executive Alexandre Bounouh



Rolls-Royce's Andy Mullineux with the model of the company's AMR

A FLEXIBLE SOLUTION TO ENERGY DEMANDS

The Rolls-Royce stand (D034) features a detailed model of the company's concept advanced modular reactor (AMR), the UK company's solution for the global call for energy resilience, scalable power and a decarbonised energy solution.

Andy Mullineux, campaign executive, Rolls-Royce, said: "The demand for energy is growing, with AI driving the need for data centre power, and putting pressure on the grid, so providing an offgrid solution is an interesting and unique proposition."

The AMR uses a lower radiation coated particle fuel, high-assay low-enriched uranium (HALEU), with a triple layer protection mechanism that is clean and inherently safe.

Mullineux said: "It is not isolated to a particular niche; we are able to service a huge number of applications – such as data centres, but also security and defence need

resilient energy – and across a huge power range. "It is modular in form, so it is transportable and scalable. We can take it to where there is demand and it is easy to deploy. It is complementary to SMRs in a portfolio."

The project is currently in concept stage, with a projected mid-2030s timeline, in line with the development of the HALEU fuel.

Mullineux said: "We have had a really positive response at the show. People are interested in the brand and what we have to offer. They understand the portfolio we've got and the reputation that brings."

"We are well-positioned from the technological point of view, but we are also well positioned to industrialise this and take it to market, and providing a competitive product to fill that market demand. Rolls-Royce has a portfolio serving the whole energy power spectrum need."

inbrief

AI APPROACH TRANSFORMS X-RAY SECURITY SCREENING

US exhibitor ScanTech AI Systems (E018B) is transforming X-ray screening with smart artificial intelligence (AI). The Georgia-based company, at WNE for the first time, designs solutions to enhance threat detection, streamline security operations, and improve staff throughput across critical infrastructure sectors – including nuclear, aviation, and government facilities. Boasting proven field performance and mission-focused innovation, its smart, scalable systems align with the evolving demands of modern security environments.

LITHUANIAN EXPERTISE IN RADIATION DETECTION

First-time exhibitor Polimaster (L009) designs and manufactures equipment for radiation detection, monitoring, and control. Its solutions are used globally by security professionals, border control officers, healthcare providers, industrial personnel, environmental scientists, and emergency responders to prevent radiation hazards. Based in Lithuania, its team consists of leading experts and scientists in radiation detection, combining expertise in physics with industrial knowledge to create cutting-edge radiation detection devices and dosimeters.

TURNKEY SERVICE IN LIFTING SYSTEMS

Apco Technologies (B021), a Franco-Swiss company specialising in the design and manufacture of high-security mechanical and electromechanical equipment, is at the show to promote its comprehensive solutions for specialised equipment such as polar cranes and safety-critical lifting systems. A first-time exhibitor, Apco offers a turnkey service, from basic design to manufacturing, installation and commissioning, tailored to each customer's needs.

CZECH EXPERTS OFFER FULL LIFE CYCLE KNOWHOW

WNE newcomer Chemcomer a.s. (C/D/E046), an engineering and supply company, comes to the show with more than 30 years of experience in nuclear energy. The Czech company specialises in comprehensive solutions, from design to implementation of projects, including modernisation, decontamination, and demolition. Its know-how, emphasis on safety, and innovation make it a reliable partner in the European nuclear sector.

DENYS EMBRACES ENERGY TRANSITION

Denys (L036F) is at WNE for the first time to promote its capabilities across sectors, including energy. An innovator in the fields of water, energy, mobility, infrastructure, restoration, construction, and special techniques, the Belgian-based company believes in the future of the energy transition and sustainable infrastructure. It collaborates closely with its subsidiary Socea, a producer of steel-core concrete pipes.



VIRTUAL TWINS, INTEGRATED PLATFORM, AND DIGITAL APPLICATION

Revolutionizing nuclear projects with smarter, safer, and more collaborative solutions.



MEET OUR EXPERTS STAND F021

ADALTRA

Reliability is at the heart of our reactor



EDF signs cooperation agreements with industrial partners

EDF has used the platform of WNE to highlight the importance of building an integrated, standardised, and diversified value chain, signing a number of cooperation agreements with industrial partners.

On opening day, agreements were signed with Dutch industry partners, including DEME Offshore NL, Mammoet (N039), and Haskoning, in the presence of EDF chief executive Bernard Fontana.

Through these collaborations, EDF aims to position itself as a trusted partner for the Dutch new nuclear market, by relying on the country's industrial expertise

and capacity. Close cooperation with leading Dutch companies will strengthen Europe's integrated nuclear supply chain and enhance the ability to competitively deliver new build projects in the coming decades.

As part of this ongoing momentum, EDF's subsidiary Nuward, which is dedicated to developing its eponymous SMR, signed a memorandum of understanding with the Italian-based company Maire.

This agreement establishes the framework for exploring cooperation between the two, in particular regarding

the Nuward SMR programme structuring, projects delivery and modularity.

Fontana said: "This year's WNE is an opportunity to highlight that EDF, along with its subsidiaries Framatome and Arabelle Solutions, has the resources and technology to help build France and Europe's nuclear future."

"Our achievements in delivering projects in France and the United Kingdom demonstrate our commitment to working with local industries, public authorities, and communities with a common standard of safety, security, quality, lead time and competitiveness."

65% Celeros's pumps and valves are currently used in 65% of the world's operational nuclear power stations

3 QUESTIONS

with Jon Adams, chief engineer, Rolls-Royce AMR (D034/8)

Rolls-Royce is exploring the opportunities in the Advanced Modular Reactor (AMR) market and is uniquely placed to answer the global call for clean and scalable energy security. A Rolls-Royce AMR will deliver energy resilience and enable decarbonisation across civil, defence and industrial sectors.

A compact, High Temperature Gas Cooled Reactor, our AMR will provide up to 25 mega-watts of power per unit and is designed for fast site deployment; compact in size and built in modules easily transportable by road, making it a versatile and credible power source for a multitude of applications.

Rolls-Royce is one of the world's only nuclear reactor vendors with full lifecycle experience and end-to-end capability to credibly deliver these novel technologies; based on proven, reliable power solutions in use across our business today.

World Nuclear Exhibition is a great platform from which to progress the development of our AMR programme, providing an excellent opportunity to network with our key partners across the nuclear industry, governments and supply chain.



Flow tech crucial to lifecycle demands

Gold sponsor Celeros Flow Technology (G113) is showcasing its role as a nuclear lifecycle partner at this year's WNE.

The company counts many leading nuclear operators among its clients. As a long-term partner to EDF, Celeros FT has supplied safety-critical flow control systems for many of EDF's nuclear power plants in France and the UK. Recently, it was awarded multiple contracts to supply safety-critical nuclear pump packages for Sizewell C, the UK's largest nuclear project to date.

Celeros FT has also built strategic relationships across the global nuclear supply chain with organisations such as Candu

Energy, Ontario Power Generation (OPG), and Westinghouse to support future delivery of nuclear capacity.

By collaborating with nuclear power providers, it says significant improvements have been achieved in the design of safety-critical pumps used during station blackouts (SBO).

"Our pumps and valves are currently used in 65% of the world's operational nuclear power stations," says Pascal Montel, Celeros FT's global nuclear sales director. "WNE 2025 is the perfect platform for us to showcase our portfolio and strengthen our position as a trusted partner to the global nuclear industry."

Celeros FT's global nuclear sales director, Pascal Montel, on the company's stand at the show

HINKLEY POINT C: OVERCOMING CHALLENGES

The scale and complexity of the Hinkley Point C (HPC) newbuild is unparalleled in the UK, made harder by Covid, which set the project back two years. This delay has since been reduced by a year with the introduction of faster working practices on the second reactor.

The twin reactor power station is expected to help Britain achieve net zero and generate thousands of jobs, bringing a £13 billion boost to the economy.

Dr Michelle Tilley, project services director at EDF, told a large audience at WNE that the site will contribute 10% of the UK's current electricity consumption.

There have been many

challenges, she said. "It's been 30 years since the UK built a new nuclear power station and that gap has been very hard and costly to rebuild."

"UK regulations and adaptations have been significant. We have spent hundreds of millions of pounds on three very different fish protection systems. We also had to add two extra floors to meet UK specific standards around temperature controls."

"These changes, or what sound like small changes, have added increased complexity and a 24% structural concrete increase."

HPC should be operational in 2029.

Dr Michelle Tilley, EDF's project services director, describes challenges faced in building HPC



INVITATION
LE 5 NOVEMBRE 2025
TABLE RONDE: Diversité en action, filière en évolution
Avec: Valérie Brossier - E.ON Energy, Laurent Clapin - Hochtief, Emmanuel Gauthier - CH2M Hill, Stéphanie Hernandez - EDF
12h00 | Stand K113

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NEW MEMBERS SIGN UP TO PEON PROGRAMME

GIFEN's flagship Programme d'Excellence Operationnelle de la filière Nuclear (PEON) supporting operational excellence in the nuclear sector received a considerable boost yesterday at WNE. As part of the programme, launched in 2023, EDF chief executive Bernard Fontana and his Framatome counterpart, Grégoire Ponchon, signed an agreement to support 10 SMEs from the Bourgogne-Franche-Comté region of eastern France on their journey to operational maturity. Framatome is sponsoring the programme, while Nuclear Valley is managing the process. Pictured from left are Sophie Rouzaud, director-general of Nuclear Valley; Françoise Onno, senior executive vice-president supply chain for Framatome, and Christophe Veron, head of the PEON programme.

SOLUTIONS FOR NUCLEAR TURBINE ISLANDS

French company Arabelle Solutions (G054) is at the show for the first time to promote its nuclear turbine island technology and services. Arabelle's integrated solutions range from the most powerful steam turbines to modular designs optimised for SMRs, as well as generators, pumps, heat exchangers, control systems, and more. Drawing on experience dating back to the industry's early years, the company's expert teams service, upgrade, and extend the lifecycles of turbine islands across the globe.

CLIMBING THE WALL WITH AWARD-WINNING ROBOT

Based in south-eastern France, PaintUP (A012A) designs and develops large-scale mobile robotic systems for industrial applications. At WNE for the first time, it presents CleanUP, a compact semi-autonomous robot capable of reaching 10m-high walls and ceilings for safe and efficient nuclear facility decontamination. Winner of EDF's robotic contest, it is designed to enable 3D mapping of α and β radiation, hazardous dust extraction, and surface sampling to reduce operator exposure and enhance process reliability.

REBAR SPlicing EXPERT AT DEBUT EXHIBITION

Founded in 1983, Dextra Europe (N131) has come to WNE for the first time to promote its solutions for modular construction and GFRP reinforcement at the show. A global leader in rebar splicing, the French company controls its entire value chain from design and production to distribution and after-sales support. Dextra also offers fiberglass reinforcement, high-performance bars, and geotechnical anchoring systems.

RUGGED ROBOT ARM FLEXES MUSCLE

Italian company Fluid Wire Robotics (FWR) is at WNE for the first time (A007A) to showcase its pioneering rugged electric robotic arm. Designed to operate in extreme radiation, heat, underwater and vacuum conditions, FWR's arms are passive: an actuation box shields motors, sensors and electronics, keeping the arm lightweight and electronics free. The company says its proprietary 'fluid wires' power and control the arm, enabling sensorless force control, accurate positioning and high manoeuvrability.

PEAK PERFORMANCE

First-time exhibitor RTP Europe (N148) is promoting its RTP3200 TAS N+ system for critical control and safety (SIL-3) applications. The company's system is in use in nuclear power plants where its fast, advanced data acquisition, as well as control applications, provide high performance and reliability.

SENSITIVE SITE MONITORING DEBUT

Horus, an autonomous tethered balloon, makes its debut at WNE with the French company Lium (A008A) with the boast that it is "revolutionising the monitoring of sensitive sites". With its continuous surveillance, smart sensors and onboard AI, it is designed to detect fires, gas leaks and intrusions in real time.

PANEL

Harnessing the power of AI

There is no doubt that AI is transforming the nuclear industry, but its impact goes far beyond technology – touching on governance, expertise, and the future role of humans in nuclear projects.

One of the speakers at a WNE panel discussion today, Anne-Charlotte Dagorn, vice-president North America of platinum sponsor Assystem (pictured), says: "We already see AI giving tangible results in three main areas – automation, turning data into decisions, and transfer of knowledge."

"For example, we've created Optimizio, an AI-based planning tool that we've deployed with EDF to plan and optimise nuclear outages for maintenance operations."

"If you speculate what could happen by 2040 from a purely technological perspective, the potential of AI is almost infinite. Over the past decade the computational power of AI has

been doubling every six months, so the capabilities that we'll have by 2040 are hard to imagine."

She welcomes these possibilities but emphasizes that beyond the technological perspective, the industry must find the right balance – ensuring AI reinforces, rather than replaces, human judgment and expertise. Future engineers must still gain the hands-on experience that builds true expertise and gives them the confidence to challenge the machine when needed.

Dagorn also feels the industry needs to adapt to leverage the full potential of the technology. "AI relies on data, and quality data comes through collaboration. Today, no single company has all the data alone and so if we want to truly unleash the potential of AI we need collaboration and data sharing across the entire industry and we are very far from that."



'AI in nuclear, today and tomorrow: enhancing operation, ensuring trust', 14:00, Main Stage

A step forward for robotics



Meet Odin, the humanoid robot of Capgemini (K083), who is demonstrating his ability to perform a range of autonomous actions to support operators in the nuclear energy domain.

Marc Blanchon, computer vision and robotics lead at silver sponsor Capgemini explained the need for a humanoid design to the technology. "Our industries are built for humans, and therefore you have stairs, you have spacing designed for arms, you have things to your side."

"You cannot rebuild an industry for robots, so the best way is to have a form factor that allows collaboration in that environment."

"You can have some capacity

Marc Blanchon, computer vision and robotics lead at Capgemini with Odin the humanoid robot

between what the humans can perform and what the robots can perform, and so you can have collaboration between the two. If you want a robot that is adapted for the human environment, you have to have legs to climb stairs."

During the show, Capgemini and Orano (H054) announced that the first intelligent humanoid robot has been deployed in the nuclear sector at the Orano Melox Ecole des Métiers in the Gard region of France. Like Odin, the robot – named Hoxo – is equipped with embedded artificial intelligence (AI) and advanced sensors for real-time perception, autonomous navigation, execution of technical gestures, and interaction. Its purpose is to replicate human movements and operate alongside teams within nuclear facilities, including in challenging intervention environments.

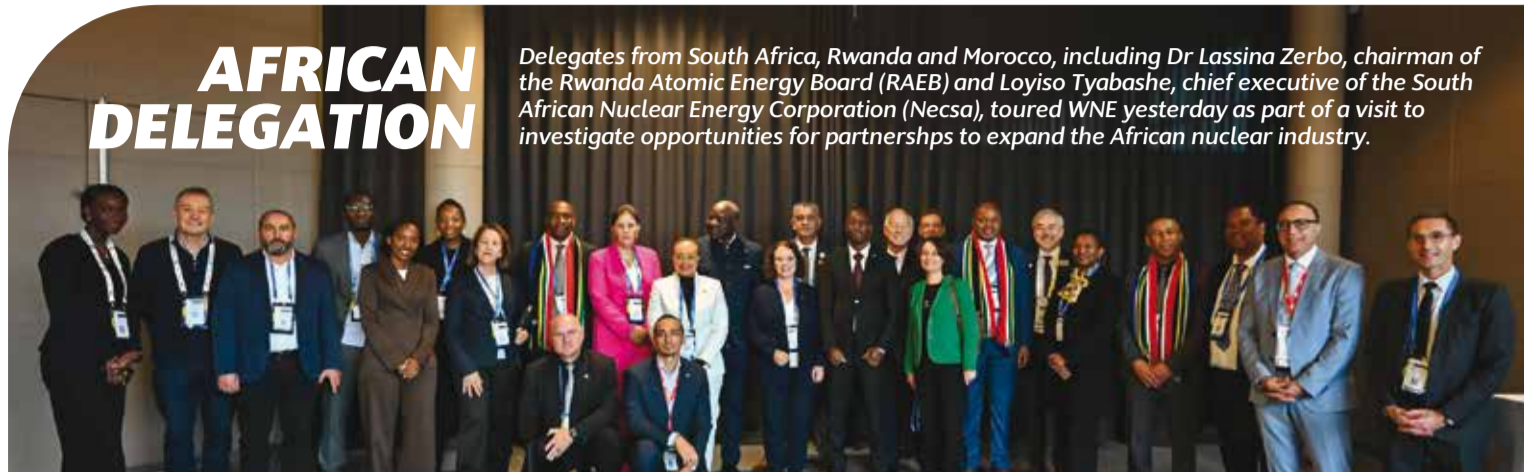


DAY THREE
Main Stage Programme

-  **09:30-09:45**
Keynote speech
-  **09:45-11:00**
Panel discussion: Way forward to 2035: securing the crucial role of nuclear in the global energy mix
-  **11:15-12:30**
Panel discussion: Shareholder engagement
-  **14:00-15:00**
Panel discussion: AI
-  **15:15-16:00**
Panel discussion: COP30
-  **17:00**
Show closes

THE INDUSTRY IN FOCUS

WNE 2025's show images partner is Romain Beaumont. Examples of the company's work – artistic views of nuclear plants – are displayed on the walls of the Lounge.



AFRICAN DELEGATION

Delegates from South Africa, Rwanda and Morocco, including Dr Lassina Zerbo, chairman of the Rwanda Atomic Energy Board (RAEB) and Loyiso Tyabashe, chief executive of the South African Nuclear Energy Corporation (Necsa), toured WNE yesterday as part of a visit to investigate opportunities for partnerships to expand the African nuclear industry.

INSTANT ANALYSIS TO COMBAT ADULTERATION



Accessible analysis: Marivil D Islam, analysing food for contaminants

The number of people facing food insecurity has more than doubled since 2020, and this global food crisis is putting pressure on suppliers and increasing the amount of adulterated food coming onto the market.

The IAEA is taking steps to help governments across the world combat this and is showcasing the work of its Food Safety and Control Laboratory in the Beyond Electricity Expo (BEE).

Laboratory technician Marivil D Islam explained: "We are seeing food contaminated by illegal additives and expired items being relabelled and sold. We have seen items that claim to be 100% fruit juice, found to be diluted with water or synthetic flavours, and spices such as turmeric mixed with flour and dyes, as well as the highly publicised melamine in milk scandal. We want to help stop these harmful foods being distributed."

The IAEA has developed and validated a Tier 1 analysis method, using small lightweight equipment and a laptop, that makes food testing highly accessible and affordable. Islam said: "We are collaborating through research and technical cooperation to agree on analytical methodologies to help our member states recognise adulterated foods. We also conduct training, either in IAEA or the home country, which enables them to enhance their own food control system."

"Although detailed analysis needs further equipment, this offers instant results to alert organisations to potential problems and help them protect their populations."

WHITE BEAR FOR GREEN CREDENTIALS

The stand of German pressure relief and explosion safety specialists Rembe (L007) highlights the company's green credentials, with Rembo, the company's mascot, featuring heavily.

As a gold sponsor of the World Wildlife Foundation, Rembe has been funding polar bears and their habitat since 2021, just one part of 'Rembe green' initiative that supports a wide range of environmental projects. The company develops and produces protective systems for industry that not only protect customers' systems and machines, but also avoid environmentally harmful emissions,

sustainably eliminate leakages and defuse noise pollution.

Yves-Marie Roignant, business development manager, Process Safety Europe, said: "We are about protecting life, both in our safety work and in the environment. We recycle all the metal used in our products. We cut our pressure discs by laser and recycle all the oil used in the processes."

"The advantage of Rembe is that we are European, and based in Germany, with branches across Europe. We can deliver quickly, without customs and with European validation and qualification."



Bear necessities: Yves-Marie Roignant with Rembo Polar bear mascot toys



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