

NUCLEAR INDUSTRY, HIGHLIGHTS, AND OUR UPCOMING EVENTS

WIND UP NUCLEAR INSIGHTS FROM PREFORMED WINDINGS- ISSUE 2

WELCOME

Welcome to the second issue of “Winding Up,” our monthly newsletter dedicated to the world of nuclear energy. At Preformed Windings, nuclear isn't just another sector we serve — it's a key part of our mission to support critical energy infrastructure. This newsletter will share insights into our work within the nuclear industry, our commitment to advancing generator coil and bar technologies, and a round-up of the latest global developments shaping this essential sector.

At Preformed Windings, we've spent over 55 years supporting global power infrastructure through our precision-engineered high-voltage coils and bars. Built on our core values of Partnerships, Quality & Service, we help nuclear operators meet the challenges of a demanding and evolving energy landscape with confidence and precision.



PARTNERSHIPS, QUALITY & SERVICE



Quality: Our patent-pending ultra-low Partial Discharge (PD) manufacturing processes and in-house high-voltage testing ensure coils of the highest durability, safety, and performance.



Partnerships: We collaborate closely with OEMs, utilities, and service providers across the nuclear sector to engineer tailored high-voltage solutions for critical applications.



Service: From R&D and technical design through to scaled production, we deliver a responsive, consultative approach, providing exceptional support to our nuclear clients worldwide.

LATEST INSIGHTS PREFORMED WINDINGS

Member of



Nuclear Industry Association

NIA 2025 – LONDON

The NIA Annual Conference is taking place early this month at the Queen Elizabeth II Centre in London, and Ghassan will be attending on behalf of Preformed Windings.

It's always a great event for catching up with colleagues from across the UK nuclear sector, hearing policy updates, and exploring opportunities for collaboration.

So, look out for issue 3 and we'll share a full roundup of Ghassan's experience and key takeaways from the event.



INDUSTRY EVENTS & MEMBERSHIP UPDATE PROUD TO BE PART OF THE WORLD NUCLEAR ASSOCIATION (WNA)

We're delighted to announce our membership with the World Nuclear Association, a community that brings together organisations from across the global nuclear industry. Being part of the WNA helps us stay connected, share knowledge, and play our part in supporting a safe, reliable and growing nuclear future.

It's something we're genuinely proud of, and it's great to be involved in such an active and supportive international network.

WNA PARIS 2025 – EVENT REVIEW

The WNA Annual Symposium in Paris 4-6 November brought the global nuclear community together once again – and this year, James was there representing Preformed Windings.

He had the chance to meet with international partners, hear about new developments across the sector, and take part in conversations about the future of global nuclear energy.

We shared some highlights on our LinkedIn page, but in short: it was a fantastic opportunity to connect, learn, and showcase what we do best.





ENHANCED TESTING CAPABILITIES

Unit J also houses expanded in-house testing facilities, allowing for more rigorous and efficient validation of our coils. This investment helps reduce project turnaround times and enhances our ability to deliver on complex, time-critical projects.

COMMITTED TO THE FUTURE OF NUCLEAR

The opening of Unit J is more than an expansion — it is a statement of intent. As the nuclear sector continues to evolve, Preformed Windings remains dedicated to providing innovative, dependable solutions that keep essential assets operating safely and efficiently.



PREFORMED WINDINGS ACHIEVES ISO 45001 CERTIFICATION

We are proud to announce that Preformed Windings has successfully achieved ISO 45001 certification, the internationally recognised standard for Occupational Health and Safety Management Systems.

This milestone reflects our commitment to protecting and enhancing the health, safety, and wellbeing of our team, while continuing to drive operational excellence across our business.

By adopting ISO 45001, we are not only improving safety in the workplace but also strengthening our ability to manage risk effectively and boost productivity.

NIA JOBS & STATISTICS

THE UK NUCLEAR INDUSTRY IS GROWING — AND WE'RE PROUD TO BE PART OF IT

We're thrilled to share that the civil nuclear industry in the UK is expanding at an unprecedented rate — and that our company stands alongside many others as part of that growth. According to the most recent Nuclear Industry Association (NIA) "Jobs Map 2024 / 2025", the sector now employs nearly 98,200 people across the UK. [Nuclear Industry Association+2Prospect+2](#)

This represents a significant increase — up by approximately 11,000 people in just one year, and a remarkable 55% rise over the last decade. [Nuclear Industry Association+1](#)

What's Driving the Growth

- Major projects such as Hinkley Point C and Sizewell C are fuelling employment growth. Hinkley Point C alone has helped triple the workforce in the South West over the past years. [Nuclear Industry Association+2The Manufacturer+2](#)
- Decommissioning, fuel-cycle work and emerging nuclear technologies (including small modular reactors) are also contributing significant numbers of jobs. [nucnet.org+2Nuclear Industry Association+2](#)

Skills & Demand – The Heart of Opportunity

The growing workforce isn't just about numbers. Nuclear demands specialised skills, high standards, and long-term commitment — qualities that we deeply value at Preformed Windings. Engineers, technicians, construction specialists, fuel-cycle experts: roles across all these fields are in demand. [Prospects+2nucnet.org+2](#)

As the industry expands, there's a clear need for talented, dedicated people — whether experienced professionals or graduates entering the nuclear sector. This makes now an exciting time for anyone considering a career in nuclear energy.

NIA JOBS & STATISTICS

Why This Matters — For Us and the UK

- A larger workforce helps ensure the UK can meet its growing energy needs while supporting clean, reliable, low-carbon power.
- The expansion creates high-quality, well-paid jobs across the country in construction, operations, supply chain, decommissioning and R&D.
- As a member of NIA's broad supply-chain community, Preformed Windings is part of this national success story. We're proud to play a role supplying the equipment and expertise that help make nuclear energy possible, and to contribute to jobs, investment and growth around the UK.

✓ Our Commitment

At Preformed Windings, we take pride in being part of the UK's nuclear revival. As job numbers climb and the industry invests in its future, we remain committed to quality, reliability and excellence supporting the supply chain, delivering on projects, and helping to build a stronger, cleaner energy future for Britain.

jobsmap

Workforce of the UK civil nuclear industry

UK NUCLEAR OVERVIEW

A STRONG SEASON FOR UK NUCLEAR GROWTH

The past few months (autumn 2025 to now) have been extremely positive for the UK nuclear sector, with real momentum behind new build, SMRs and long-term policy commitments. There's a genuine feeling that the UK is entering a new phase of delivery rather than discussion.

SIZEWELL C – MOVING FROM PLANNING TO ACTION

Sizewell C is now officially progressing following its Final Investment Decision earlier this year. Over autumn, work has focused on refining delivery plans, preparing supply-chain packages and setting out timelines for major construction milestones.

This project alone will support thousands of jobs and secure low-carbon power for decades, offering stability and opportunity across the UK nuclear supply chain.

SMALL MODULAR REACTORS – ACCELERATING THE FUTURE

2025 has been a breakthrough year for SMRs. Rolls-Royce SMR was confirmed as the preferred partner for

the UK's first commercial SMR programme, and several potential sites—Wylfa among them—have been active in consultations and early planning work.

Environmental assessments and regulatory reviews are underway, but the overall direction is consistent: SMRs are expected to form a key part of the UK's low-carbon energy mix and create significant long-term manufacturing opportunities, especially for specialist suppliers.

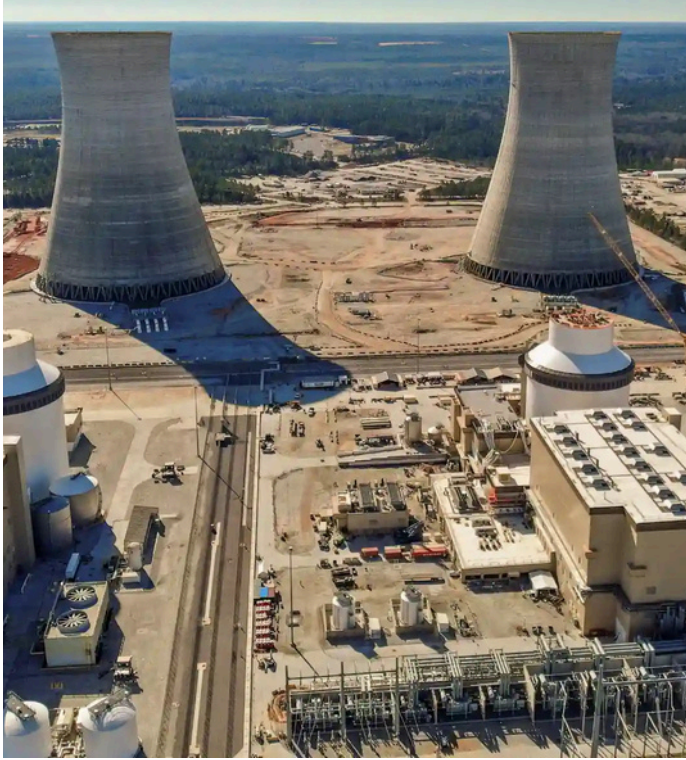
POLICY SUPPORT, INVESTMENT & SKILLS GROWTH

Government strategy continues to prioritise nuclear as essential for energy security and achieving net-zero goals. This is backed by expanding investment and the rollout of the Civil Nuclear Roadmap to 2050.

Workforce numbers are also climbing, with the UK civil nuclear sector now employing close to 100,000 people. Engineering, manufacturing, and specialist technical skills remain in high demand nationwide.

For Preformed Windings, this growth reinforces the importance of a strong, high-quality supply chain—something we are proud to contribute to.

EUROPE NUCLEAR OVERVIEW



EUROPE RE-ENERGISES NUCLEAR – NATIONAL PLANS BECOMING REALITY

Across Europe, the final months of 2025 have brought encouraging progress as countries turn ambitious nuclear strategies into practical steps. While each nation has its own timeline, the shared message is clear: nuclear is central to Europe's clean-energy future.

FRANCE – EPR2 PROGRAMME SETS THE PACE

France remains the driving force behind nuclear expansion in Europe. EDF's EPR2 new-build programme has moved into more advanced preparation stages, with the first units planned for sites like Bugey.

Throughout 2025, new cooperation agreements and supply-chain frameworks have been announced, signalling long-term, stable work and strong export ambitions.

POLAND – FIRST NUCLEAR PLANT ADVANCING

Poland is progressing rapidly with its first nuclear power station using AP1000 technology. This autumn has seen continued site preparation, updated milestones, and new international partnerships aimed at developing workforce skills and supply-chain capacity.

Poland's programme is becoming a model for countries transitioning from coal to nuclear as part of their decarbonisation plans.

EUROPE NUCLEAR OVERVIEW



EU POLICY – MORE CLARITY AND STRONGER SIGNALS

Recent EU decisions have given nuclear clearer recognition as a strategic clean technology.

Key developments include:

- Nuclear confirmed as eligible within sustainable finance taxonomy.
- The Net-Zero Industry Act prioritising nuclear manufacturing.
- The European Industrial Alliance on SMRs finalising its first action plan.

This direction provides greater certainty for investors, developers and suppliers right across Europe.

FINLAND & SWEDEN – NORTHERN EUROPE LEADS ON SMRS

The Nordic region is emerging as an SMR frontrunner:

Finland

- Moving forward with district-heating SMRs.
- Several potential urban sites under active evaluation.

Sweden

- New laws and financing models now support both new large reactors and SMRs.
- Progress on lifting historic uranium mining restrictions.
- Construction continuing on a world-leading deep geological waste repository.

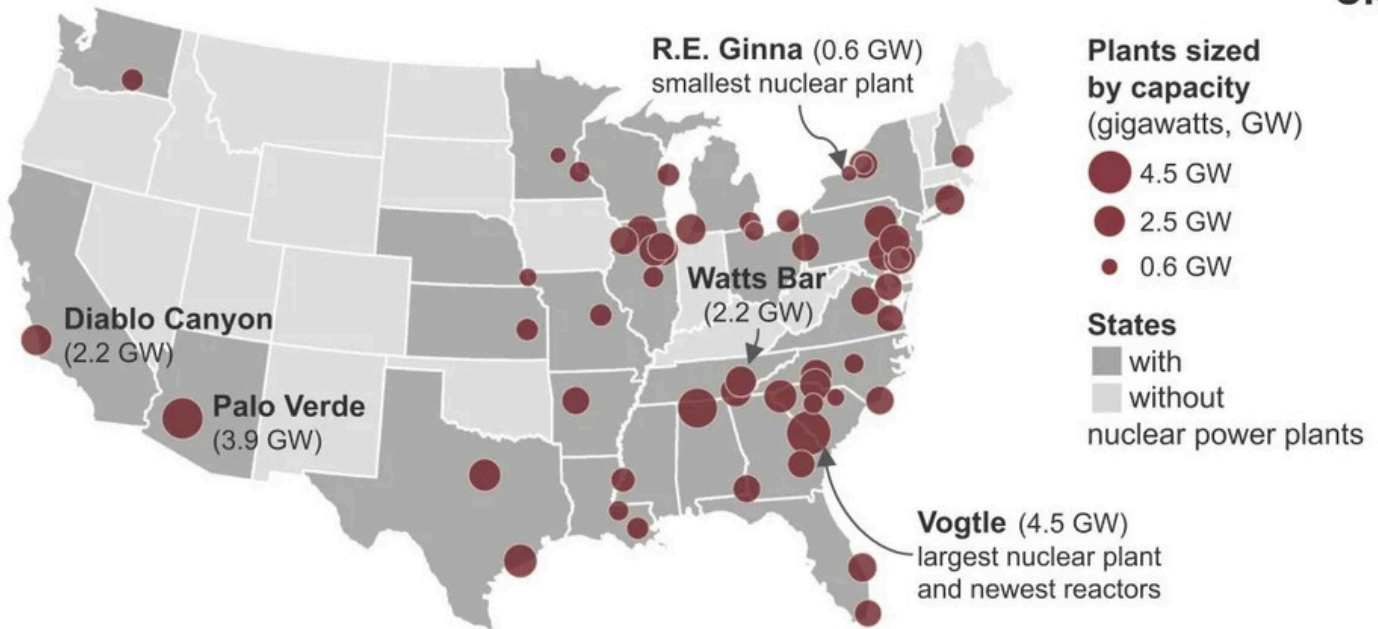
Together, the Nordics are demonstrating how flexible nuclear—large reactors and SMRs—can support heating, industry and long-term energy resilience.





USA NUCLEAR OVERVIEW

U.S. nuclear power plants (as of February 2025)



A Strong Year for U.S. Nuclear – Growth, New Builds & Private Investment

The U.S. nuclear sector continues to build momentum, with a combination of federal support, private investment and advanced-reactor progress shaping the landscape over the closing months of 2025. There is a clear push to expand nuclear capacity, modernise existing plants and accelerate next-generation technologies.

AP1000s & Large Reactors Back in the Spotlight

Several utilities across the U.S. have been advancing plans for new large-scale reactors using proven designs, including the AP1000. After steady progress through 2025, multiple states are assessing sites, financing models and grid-integration strategies.

Continued federal support and clearer state policies have helped create renewed confidence in large new-build options.

USA NUCLEAR OVERVIEW

Advanced Reactors & SMRs – Major Private-Sector Energy

Perhaps the biggest story in the U.S. this year has been the rise of private-sector SMR and advanced reactor investment. Companies such as TerraPower, X-energy, GE Hitachi and Holtec have all made visible progress:

- demonstration reactors moving toward licensing stages,
- site evaluations underway in several states,
- and federal cost-sharing continuing through the Advanced Reactor Demonstration Program.

Industrial customers—including data centres and heavy industry—are increasingly turning to SMRs as long-term, low-carbon energy solutions, driving interest in modular manufacturing and local supply-chain development.

Life Extension & Upgrades – Keeping the Fleet Strong

Throughout 2025, several U.S. nuclear stations have pursued licence extensions to operate for 60 or even 80 years. Investment in upgrades, digital control systems and long-term maintenance reflects a strong commitment to maintaining the country's largest source of clean, reliable power.

Why This Matters for the Supply Chain

The combination of large reactors, SMRs and life-extension work means the U.S. market is offering long-term, multi-decade opportunities.



REST OF WORLD NUCLEAR OVERVIEW

GLOBAL NUCLEAR EXPANSION CONTINUES AT PACE

Outside Europe and North America, 2025 has been another strong year for nuclear growth worldwide. Many countries are scaling up development, restarting projects or launching new programmes to secure reliable, low-carbon energy.

ASIA – THE FASTEST GROWING NUCLEAR REGION

China remains the global leader in reactor construction, with multiple units under build and more entering planning and approval stages. The country continues to expand both large reactors and its own SMR technologies.

South Korea remains heavily involved in export projects and domestic new-build, while Japan continues its steady programme of reactor restarts alongside new safety upgrades.

MIDDLE EAST – A GROWING NUCLEAR HUB

The Middle East continues to emerge as a long-term nuclear region:

- The UAE's Barakah plant is progressing toward full multi-unit operation.
- Saudi Arabia and several neighbouring countries continue to advance plans for their first reactors, driven by energy demand and diversification goals.

The region is increasingly seen as a promising market for future SMR deployment as well.

AFRICA – EARLY-STAGE PROGRAMMES GATHERING PACE

A number of African nations are expanding their nuclear plans:

- Egypt continues work on its first nuclear power station.
- Ghana, Kenya and others are developing regulatory frameworks, workforce training programmes and national energy strategies that include nuclear for the first time.

These efforts signal the beginning of long-term, carefully staged development across the continent.



REST OF WORLD NUCLEAR OVERVIEW

SOUTH AMERICA - SLOW BUT STEADY PROGRESS

Countries such as Argentina and Brazil remain committed to their nuclear programmes, focusing on a mix of modernisation, project continuation and renewed interest in small advanced reactors for remote or industrial use.

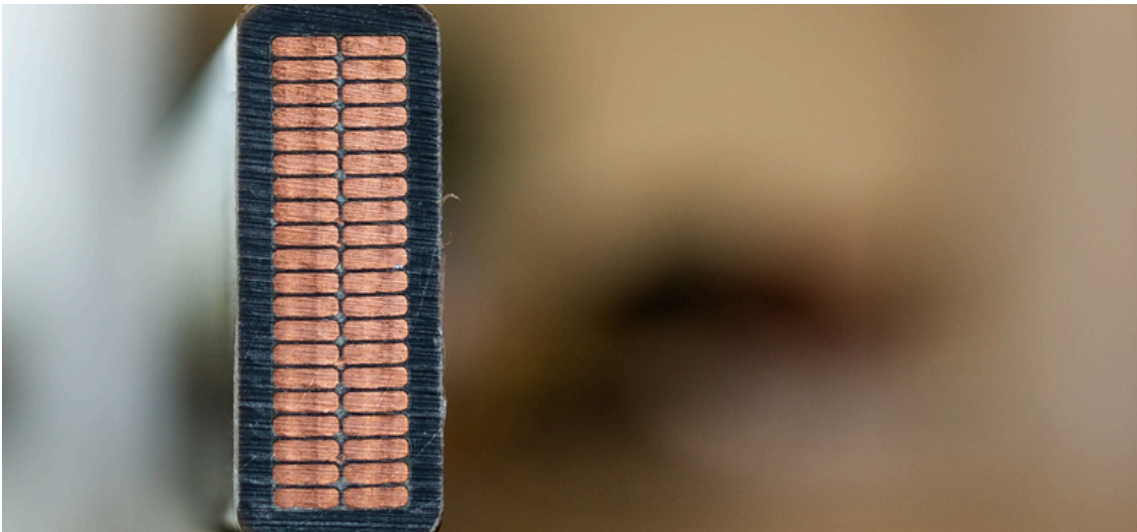
WHAT THIS MEANS FOR GLOBAL SUPPLIERS

Across the world, nuclear is increasingly seen as a foundation for:

- energy security,
- industrial growth,
- and net-zero commitments.

As more countries look toward dependable, long-life technologies, the demand for trusted, specialist suppliers continues to grow.

At Preformed Windings, we remain proud to support a global industry that is expanding, innovating and building a cleaner energy future.





PREFORMED WINDINGS: RAISING THE BAR

We're excited to introduce our **new range of High Voltage Bars**.

At **Preformed Windings**, innovation drives everything we do ⚡. This year, we've further strengthened our manufacturing capabilities with the introduction of **HV Bars**, expanding our offering to support critical rotating machinery.

With **over 50 years of experience**, advanced tooling, and modern manufacturing processes, we're not just keeping pace with technology — **we're setting new standards in motor and generator winding manufacturing**.

- 🔧 Precision-engineered insulation systems designed for maximum reliability
- 🌐 In-house HV testing to ensure consistent, repeatable performance

Behind every bar is the expertise of our dedicated technical team, continually refining each stage of the process with care and attention to detail. When it comes to critical infrastructure, **reliability isn't optional** — and our HV Bars are engineered to give operators complete confidence.





MEET THE TEAM



GHASSAN BARGHOUTH – CHIEF COMMERCIAL OFFICER

Ghassan brings 25+ years of global leadership in energy and low-carbon technologies. He is focused on driving growth, innovation, and forming partnerships focusing on clean energy transition.



STUART WHITFIELD – BUSINESS IMPROVEMENT LEADER

A highly respected figure in the industry, Stuart is the go-to person for operational expertise. He ensures smooth operations, efficiency, and continuous improvement across our manufacturing and project pipelines.



SHAUN ELSEY – PARTNERSHIP DEVELOPMENT MANAGER

Shaun is focused on delivering the highest levels of quality and reliability across our products and processes. He works closely with partners to align technical excellence with customer needs.



MEET THE TEAM



HOLLY JOHNSON – PARTNERSHIP DEVELOPMENT MANAGER

Holly is dedicated to building strong customer partnerships and delivering tailored solutions. With a people-first approach, she ensures clients receive the highest level of support to achieve long-term success.



ANDY EATON – PARTNERSHIP DEVELOPMENT MANAGER

Passionate about hydropower as a sustainable energy source, Andy brings 25+ years of sales and business development experience across global markets. He is committed to creating lasting value through trusted partnerships.



ANDY SMALL – PARTNERSHIP DEVELOPMENT MANAGER

Andy has experience in the oil & gas, nuclear, defence, aerospace, and automotive sectors, working in sales and project management. Graduating from Northumbria University with a degree in Mechanical Design Engineering and a foundation in Subsea Engineering.

IF YOU'D LIKE TO ORGANISE A CALL WITH ANY OF THE TEAM – BOOK NOW:

