

Connect

Stay connected

DECEMBER 2024
ISSUE 149

FESTIVE EDITION

TURNING PRESSURE INTO POWER

Liv Taylor explains the Reactor Pressure Vessel installation into Unit 1 at Hinkley Point C.

Net Zero Innovator success

Celebrating our night-shift workers

Why flexibility is important for WMS and the UK's future energy supply

How future nuclear medicine can diagnose and treat cancer



EDITORS' NOTE

It's our last issue of the year, and what a busy year it's been! Keep an eye on eNZO for our festive end-of-year song and other ways that we're celebrating the year, with the chance to **win a prize**.

We end the year with the teams at Hinkley Point C **installing the reactor pressure vessel** into Unit 1, a critical component in a nuclear power plant and a big milestone.

Did you know that our company is helping the fight against cancer? Amin from Cyclife Aquila Nuclear explains how we're involved in the future of **nuclear medicine**. There have been some significant improvements to our **parental leave policy**. And as **energy supply is all about flexibility**, Fergus explains what this looks like for WMS.

Have you ever wondered what happens across the business after dark? We hear from our **night-working unsung heroes**. And finally, enjoy not one, not two, but **three quizzes** to round off the year with some festive fun!

JULIA NUTLEY AND KATHY MANSON
The Connect team

SUNDAY SOCIAL



To celebrate the launch of the Sunday Saver challenge, social media influencers have been joining our roast dinner debate. They've been taking advantage of free electricity on Sundays to film themselves cooking a roast and talk about the unusual trimmings they like to include – like Jake Quickenden's favourite, mashed potato.

Our influencers have had great engagement on their Instagram videos:

- Singer and TV personality Jake Quickenden had 285,000 views.
- Family influencer Sophie Quickenden had 186,000 views.
- Family influencer Shell and the Littles had 11,600 views, with an engagement rate for stories of 96.6% (benchmark: 22%).
- Family influencer Brogan Giorgiou had 78,400 views.

IN SOLIDARITY FOR A GREEN WORLD

The UN Climate Change Conference COP29 took place in Baku, Azerbaijan, from the 11-22 November. It was a week of negotiations, discussions and global collaboration, all focused on tackling the climate crisis. Agreements were reached in areas including:

- A commitment to raise $300bn (£240bn) annually for developing countries.
- A loss and damage fund to help vulnerable countries with climate-related damage.
- Tripling renewable energy capacity and double energy efficiency by 2030.
- Resilience to climate impacts.

We hosted a series of webinars to run alongside COP29, covering topics such as EDF's carbon footprint and climate adaptation.

WATCH THE WEBINARS ON eNZO

100,000 ENERGY EFFICIENCY MEASURES SAVE CUSTOMERS CASH AND CARBON

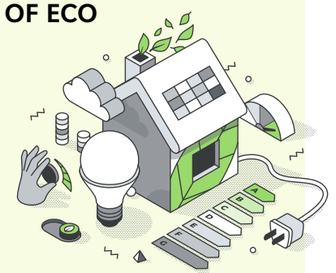
The Energy Company Obligation (ECO) team in Customers has hit a milestone of delivering funding for 100,000 energy efficiency installations for the current ECO4 obligation. ECO is a government energy efficiency scheme, designed to target fuel-poor households and reduce carbon emissions. ECO4 started in April 2022 and is due to run until March 2026.

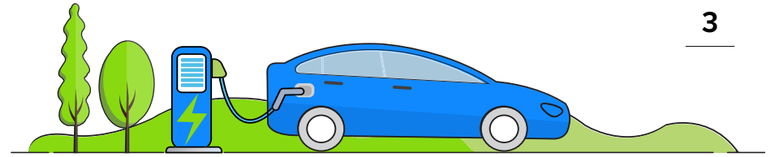
ECO4 funding has helped 30,000 customers since the scheme started in April 2022, saving households more than £20m in annual bill savings.

"We should all be very proud of this great team achievement, which is a testament to EDF's ambition to help Britain achieve net zero.



PAUL HOWELL
SENIOR MANAGER OF ECO





POD POINT PASSES 250,000 CHARGE POINTS

Pod Point has become the UK's first electric vehicle charge point operator to reach 250,000 charge points and remains as Britain's largest network.

The company's network is flex enabled, meaning that the network of chargers can flex the times they charge depending on when electricity is cheaper or if there is a need to help balance the grid – without technology upgrades. This milestone is a huge step forward towards our ambition to reach one million customers by 2030 as part of Pod Point's 'Powering Up' strategy.

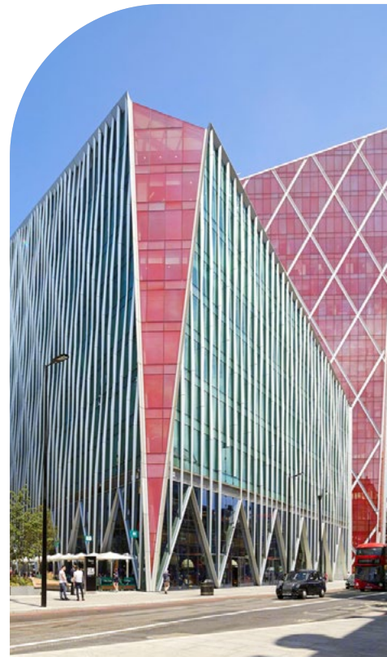
Chief Executive Officer Melanie Lane said: "I'm thrilled that we have achieved another first by becoming the first network to have installed over 250,000 units for customers across the UK. We have achieved this with a Trust Pilot score of 4.4, demonstrating our commitment to excellent customer service."

NOVA NORTH GETS A MAKEOVER

The project at Nova North to create our new London office is underway. The team will be stripping out existing tenant installations and doing a full-scale refurbishment to update the office and make it more functional.

Key upgrades include the creation of spacious and modernised meeting rooms, kitchenette/tea point facilities and various collaboration spaces.

The refurbishment will feature bespoke joinery and décor. The update is being designed, built and delivered by EDF Property Services in partnership with Dalkia.





THE BIG INTERVIEW

TURNING PRESSURE INTO POWER

Liv Taylor is project managing a major milestone at Hinkley Point C: the installation of the reactor pressure vessel into Unit 1.

Liv, tell us about yourself
I'm a big trail runner, cyclist and swimmer. My partner and I love the outdoors, and we have two dogs; a sprocker and a Bavarian mountain hound.

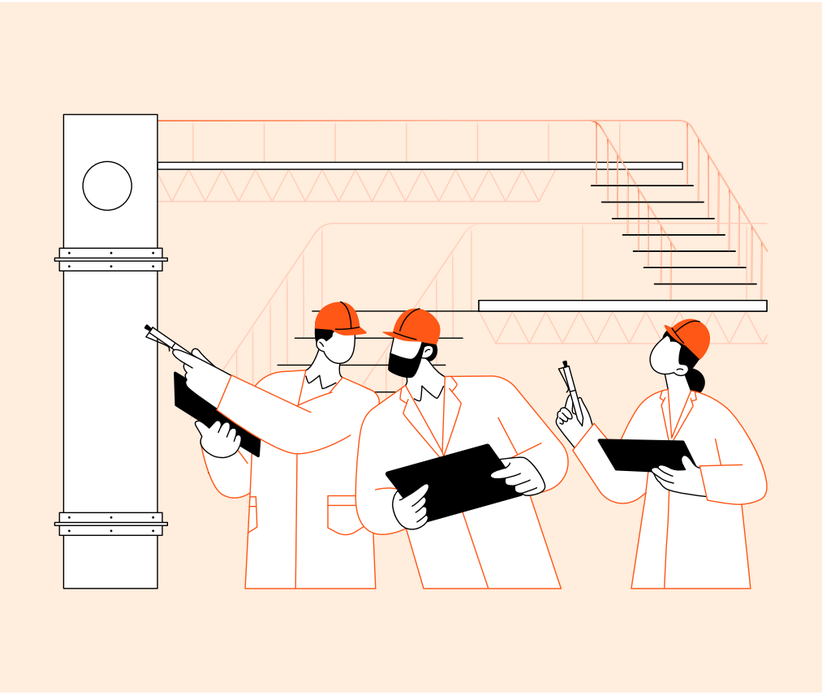
Before moving to Somerset to work on the project, I lived in London and had a variety of careers from running my own sports catering company to working in a digital consultancy. I can't imagine living back in the city now.

What is your role at Hinkley Point C?
I'm a Project Manager based on site, working in the Nuclear Heat Production System (NHPS) team. I work with our contract partner Framatome for the installation of the Primary Circuit on site.

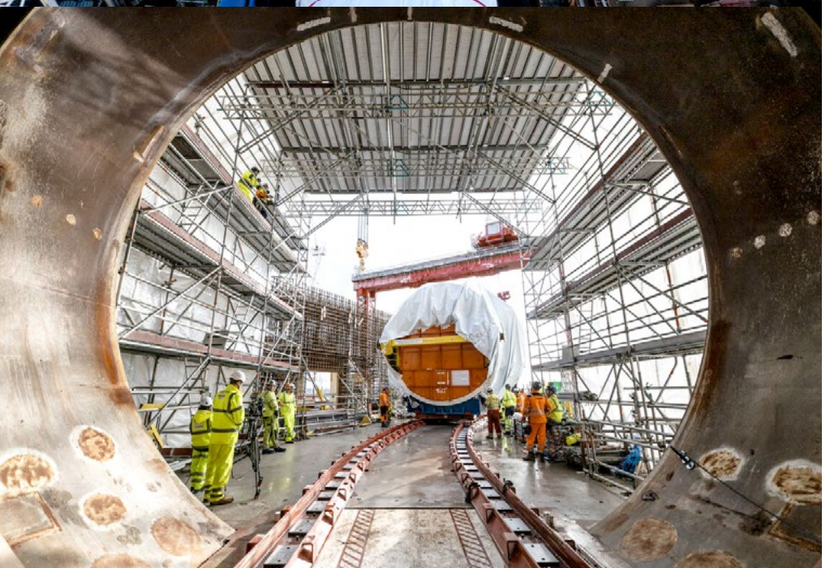
What is the purpose of a reactor pressure vessel (RPV)?
It's a key component in a nuclear power station with incredibly high safety requirements. It's where the nuclear reaction – known as fission – takes place, which is the source of heat that produces steam to drive the turbines to produce electricity.

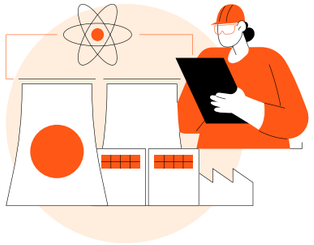
Why is the RPV installation milestone so important?
This is the first new nuclear reactor to be installed in more than 30 years. The RPV is a key step forward for the project because it's the heart of the power station. It's a big visual milestone both for the people involved in the build and for the public – people will see that the project is progressing well and completion of Unit 1 is getting closer.

What are the main challenges during installation?
The main thing is to prepare the reactor building that the RPV will go in. We need to provide an environment with the right temperature and humidity. The installation takes a few days with different stages and includes lots of people. We need to make sure everyone stays alert and doesn't fatigue.









We're also dependent on the weather, we want it to be dry and there's a limit to how much wind we can have. There are health and safety risks with lifting heavy pieces of equipment and we work hard to mitigate these and manage the logistics of moving large and heavy equipment around site.

The RPV testing was carried out with our contract partners, Framatome, in France. How do you collaborate with other parts of the business?
As a project manager, it's critical to be able to link lots of teams together. I spend a lot of time talking to people who may not be sat near you or even speak English – that's the part of my job I really enjoy.

I work with Framatome on the installation and with teams working in construction, lifting, temporary works and health and safety. I also talk to experienced project managers in France and around the UK to get advice and improve our efficiency at Hinkley Point C.

← RPV Install: Arrival at Reactor Building 1 Equipment Hatch



What are you most proud of?
I'm proud to work alongside people who have been in the nuclear industry for decades bringing with them a wealth of experience and it's great to be considered part of the team. When we get the RPV installed it'll be a great sense of achievement.

I joined the team just over two years ago and I was the only woman. Now over a third of the team are women, which is positive to see.

What are the next steps?
It's a strange feeling – there's a lot of hype around achieving a massive milestone like this, then our team immediately jumps to the next activity. We'll be getting ready to start welding in the new year, preparing for the arrival of new equipment on site and the installation of other primary circuit equipment such as steam generators and the pressuriser. I'll also move to Unit 2 to get ready for the dome lift later in 2025.

> "The RPV is a key step forward because it's the heart of the power station. It's a big visual milestone both for the people involved in the build and for the public.



MEET THE NET ZERO INNOVATORS





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Innovation is essential in driving us towards net zero, and today was a fantastic showcase of how impactful it can be. Each project was well thought-out, prepared, and presented superbly.



PATRICK DUPEYRAT
UK R&D DIRECTOR

In this annual challenge, employees from across the company find innovative solutions to business challenges that will help Britain achieve net zero and deliver a positive commercial impact.

A selection of 21 people from across our five families worked on three challenges in addition to their day job. They spent five months going through a structured innovation programme, from team building to a Dragons Den style final pitch to their sponsors.

The challenges were proposed by senior leaders from across Renewables, Nuclear and Retail.



THE CHALLENGES WERE:

1

How can we create a competitive offer for community-scale remote batteries to provide flexibility services?

Sponsor: Dan Hopcroft, Zero Carbon Home Director, Customers.

Recommendation: ComBatt - the community-scale remote battery project - is meeting with leaders across the company to focus on the business model and who it generates value for in early December.

2

How can we turn the Biodiversity Net Gain obligation into a new business opportunity?

Sponsor: Yusuf Patel, CTO, EDF Renewables.

Recommendation: Build a specific new business to commercialise the Biodiversity Net Gain credits generated by EDF Renewables projects and sell them to business customers.

“

The best part of being involved in the project has been working with people from different areas of the business. Everyone on the team has different skills and interests, so it’s a real bonus for the company to be able to bring people together to work on innovation.



MATT STAMPER
DIGITAL COMMUNICATIONS MANAGER

3

Using Nuclear Services as a starting point, how can we increase the diversity of STEM skills in the energy industry to enable a rapid and fair transition to net zero?

Sponsor: Dave Cole, Operations Director, Nuclear Services; Jane Francis, Head of Equity, Diversity and Inclusion, HR.

Recommendation: Bring together our existing activities promoting STEM careers and diversity, which are currently disjointed, and launch a new metaverse platform.

THE RESULTS

The sponsors were blown away by the final proposals. The presentations demonstrated some ambitious and impactful ideas to create both commercial value and accelerate the UK’s journey to net zero. Two key learnings were identified.

Firstly, that **diversity of thought** is an enormous asset enabling us to look at challenges in fresh ways; secondly, that many of the emerging opportunities sit across or between the different UK families, meaning that **cross-business collaboration** is crucial.

The aim is to move at pace to further develop the first two recommendations into initial products by early next year. The third is more complex and sits naturally under HR.



“

It’s wonderful to see these projects begin. This fund marks the start of a decade-long commitment to supporting communities here.



JULIA PYKE
JOINT MANAGING DIRECTOR OF SIZEWELL C



COMMITTING TO THE COMMUNITY

Over £300,000 has been awarded to nine organisations in East Suffolk in the first round of funding from the Sizewell C Community Fund.

Grants from the Community Fund range from £2,000 to £170,000 and will boost a variety of local projects and services, from sports clubs to advice centres.

The total fund is £23 million, with around £2 million to be allocated each year over the next decade to support local groups impacted by the construction of Sizewell C. The fund aims to enhance the quality of life for local residents by promoting economic, social and environmental wellbeing and is administered by the Suffolk Community Foundation.

Recipients include Citizens Advice East Suffolk who have been awarded £170,000 to train volunteers to offer guidance to residents. The Leiston Youth and Community Angling Society (LYCAS) has received nearly £7,000 for equipment and pond surveys, while Aldeburgh Jubilee Hall has been granted £30,000 to put on more performances and attract new audiences.

Other beneficiaries include Young People Taking Action, Slaughden Sailing Club and Saxmundham and District CIC, who will use the funds to enhance facilities and provide vital support across East Suffolk.

FIND OUT MORE ON SIZEWELLC.COM

THE FUTURE OF HYDROGEN



Hydrogen for Life is an industry event to discuss the decarbonising power of hydrogen and its role in helping Britain achieve net zero.

Hy4Life brings together industry professionals to discuss key issues shaping the future of the hydrogen economy in the UK and around the world.

Now in its fourth year, November’s conference at the Oval in London focused on how hydrogen can transform the UK’s energy system and unlock clean power by 2030.

Hynamics and EDF Renewables were headline sponsors for Hy4Life, supported on the day by UK R&D.

Hydrogen has a strong role to play in decarbonising the mobility, industry and eFuel markets. It can also deliver skilled jobs, unleash the power of private investment and accelerate international collaboration.

For people attending it was a chance to shape the debate around the future of the hydrogen economy, present ideas and learn about the latest innovations and current industry trends.



“

Our presence and active participation demonstrated how we are central to the UK’s strategy of delivering its net zero ambitions through low carbon and green hydrogen solutions.



PETE FEAR
BUSINESS & DEVELOPMENT MANAGER AT HYNAMICS

WHILE YOU WERE SLEEPING...

Every night, while most of us are fast asleep, employees work behind the scenes to make sure that our business keeps running smoothly. We take a closer look at some of these unsung heroes.



“

It can be a challenge to constantly switch between working days and nights. It’s easy to pick up bad eating habits when the 3am munchies strike! Planning social or family events must be done in advance, and I’ve worked many Christmas or New Year shifts over the years. The sunrise over the sea at Torness is the best part of the day.

DOT ROBB



DOT ROBB IS ONE OF FIVE OCCUPATIONAL HEALTH SHIFT NURSES AT TORNESS POWER STATION.

Nuclear stations must have trained emergency responders on site to deal with radiological, industrial and medical emergencies. The nurses follow the 12-hour shift pattern of engineers, technicians and security staff. They carry out health surveillance, medicals and health promotion. They also test for drugs and alcohol, calibrate medical equipment and run a treatment room for minor ailments.

At night there are around 60 workers, compared to 500-600 in the day. The team deals with anything from head colds to cardiac problems, gallstones and asthma. Night-time can accentuate mental health issues, and people may come to talk about their worries or problems at home. Night shifts are also a good time to prepare for the busier day shifts.



GAVIN RAE WORKS AS A CONTROL ROOM SUPERVISOR AT TORNESS POWER STATION.

The team is responsible for maintaining nuclear safety on site and manage activities on both reactors, common plant and the fuel route from the control room. Gavin has a 12-hour shift rota working 8am-8pm or 8pm-8am.

One of the biggest challenges overnight can be keeping track of who’s on site, where they are and what they’re working on, also getting advice for any emerging issues. Gavin stays alert with a good sleep routine - and coffee helps! There’s a strong camaraderie with his colleagues. Gavin said: “The night shift can often be quiet with very few people on site, so we can get on with our work with little or no disturbances.” He feels that he gets to spend more time with his young family before a night shift.

“

A big advantage of shift work is that the hours are condensed so I have plenty of rostered days off to enjoy personal life activities.

GAVIN RAE



NIVALDO PREIRA IS A MORNING CLEANER FOR DALKIA, BASED AT THE HOVE OFFICE.

Although not a night worker, Nivaldo works an early 5am-9am shift, along with Mensur Munshi and one of the night guards. It’s very quiet until the rest of the team start around 7-7.30am and people start coming into the office, but he hasn’t been spooked by anything yet! They have a team meeting early in the day to make sure they get time together. Nivaldo says: “I like to see everyone come into a nice clean area first thing, I like the kitchens and coffee to be ready to make a good start to their day”.



ANTONY LEE IS A SHIFT OPERATIONS TECHNICIAN AT DUNGENESS POWER STATION.

Antony’s typical night shift involves a handover meeting, a plant tour, and then defueling based on the fuel route plan. This typically involves the reactor or buffer store exchanges on the fueling machine.

The main benefit of a night shift is fewer work interruptions. When working nights Antony makes sure he gets plenty of rest and tries not to burn the candle at both ends. And if all else fails, there’s always tea!



THE FUTURE IS FLEXIBLE



Fergus McAllister, Head of Flexibility Products in Wholesale Market Solutions (WMS), tells us why flexibility is so important for the UK's future energy supply.

WHAT IS FLEXIBILITY?

Flexibility is any form of technology that can quickly generate or use energy to help balance the energy system. It keeps supply and demand steady.

We can think about flexibility in two forms: 'in front of the meter' and 'behind the meter'. In front of the meter refers to large, grid-connected resources that can store, generate or use energy. Battery storage is the most flexible of these, others include thermal gas-peaking generators and renewable sources like wind farms.

Behind the meter includes ways to use flexibility in homes and businesses, like charging electric vehicles or using heat pumps at the cheapest times or storing energy in a home battery.

WMS helps make flexibility profitable by managing the trading and optimisation of energy from big projects, creating the technology that enables flexibility, and developing new products for both business and home energy use. These elements make up our 'PowerShift' capability, a platform that unlocks the full potential of flexibility and rewards our customers for the flexibility they provide, using cutting edge technology and our expertise.

WHY IS IT IMPORTANT TO BE FLEXIBLE FOR THE FUTURE ENERGY SYSTEM?

Over the next five years, the amount of wind and solar power in the UK will triple. However, these weather-dependent sources don't always produce power when we need it. We also expect a surge in electrification of transport and heat. This is where flexibility comes in. Batteries can store excess renewable energy and give it back to the system when it's needed and can connect to different markets to keep the energy system stable. To reach net zero, we need flexible systems.

WHAT RECENT CONTRACTS HAVE BEEN ACHIEVED?

We started PowerShift in 2018 and had a contract for a 6MW battery. With over 760MW in operation we are the largest battery optimiser in the UK. Over the last year, we've signed close to 500MW so far, and we're proud to have contracted over 2GW, which is a huge growth in six years.

WHAT ARE YOU LOOKING FORWARD TO NEXT YEAR?

I see 2025 as a big year for growth and innovation. The behind the meter market is set to expand, and WMS is leading the development of the PowerShift Virtual Power Plant. This is designed to connect all types of small flexible assets, grouping them together to access different flexible energy markets and value streams. We're expanding our in front of the meter and behind the meter businesses and have ambitious plans.

We're proud that WMS is leading the way in energy flexibility in the UK.





WMS DOUBLE AWARD WIN

The WMS team has been named **Best Trading and Optimisation Team** at this year's Solar Media Limited Energy Storage Awards, recognising its exceptional commitment, expertise, and innovation in energy storage and market participation.

The team also received the inaugural **Best Optimiser Award** at the Inspiratia Europe Energy Transition Awards 2024. The award highlights the team's dedication to using technology and innovation to advance sustainable energy solutions.



← Fergus and the team

NUCLEAR MEDICINE SET TO COMBAT CANCER





Cyclife Aquila Nuclear sits within our nuclear family. **Amin Choudhury**, a Scientific Officer, explains how future nuclear medicine can diagnose and treat cancer.



Amin, tell us about yourself
I have a one-year-old son who keeps me busy and my wife and I are renovating a house. I like to play and watch football and enjoy Formula 1 and Ultimate Fighting Championship.

What does Cyclife Aquila Nuclear do?
We provide bespoke engineering solutions, from design through to installation and commissioning. We cover five categories: containment; hot cells; remote handling; safe transportation of nuclear materials; and equipment modification. Our portfolio covers everything related to nuclear, from decommissioning to new build and from defence to science and medicine. I work in nuclear medicine, which is seeing a renaissance, with many new developments and discoveries.

What is your role?
I've been with Cyclife Aquila Nuclear for six months as a Scientific Officer, which is a new role. I'm the bridge between engineering and the client and have a background in nuclear medicine to support early designs. I travel to many nuclear medicine events to identify the latest innovations and share the potential benefits.

What is nuclear medicine?
It's a sector to diagnose and treat cancers using radiation. There's a huge breadth from researching, manufacturing and administering medicine to patients.

Traditionally, nuclear medicines known as radioisotopes are given to patients as 'tracers' and specialised cameras detect the radiation from the tracers to identify tumours.

There is an upsurge in investment for this and we're offering bespoke support to clients, from researchers to commercial manufacturers.

What do you expect to see in the future for nuclear medicine?
The Government's Department for Energy Security and Net Zero (DESNZ) has awarded us a contract for a Medical Radionuclide Innovation Programme (MRIP), which explores the installation of lead 212 generators in UK hospitals. Lead 212 is a 'wonder drug' that can destroy DNA in cancer cells but leave healthy tissues alone, in a process known as theranostics which combines therapy with diagnostics. This is the future of nuclear medicine. Our recommendations are due in March next year, which we hope will enable us to continue this study.

How do you work with other areas of the business?
Cyclife Digital can provide us with digital technologies for training while products are being manufactured. We attend events and liaise with Hinkley Point C and Nuclear Operations to share the latest trends in nuclear innovation.

What are you excited about for next year?
Our strategy in nuclear medicine is driven by the industry's rapid growth. To meet the increasing demand, we're building a team of technical experts. We'll complete the MRIP project and support the advancement of radionuclide supply in the UK with our engineering solutions. There are lots of opportunities to meet clients and attend renowned science events around the world. I'm excited to meet other people in the nuclear family and immerse myself in this extraordinary network.

> **Lead 212** is a 'wonder drug' that can destroy DNA in cancer cells but leave healthy tissues alone, in a process known as theranostics which combines therapy with diagnostics. **This is the future of nuclear medicine.**



POSITIVE PARENTING POLICY UPDATES

The company has made significant updates to our parenting policy to ensure a higher level of support is available for those on their parenting journey.



We've extended parental and adoption pay from 14 to 30 weeks, making us one of the market leaders. Paid leave is now available for partners to be able to attend antenatal or adoption appointments and has been increased from two to four weeks following the birth. We've improved our time off for fertility treatments, offering up to five days per cycle and introduced paid neo-natal care leave for parents whose babies need specialist care. And bereavement leave has been extended to include support for parents who experience miscarriage at any stage in their pregnancy or stillbirth.

Laurence Ollier, Senior Manager in Digital and Content, had his second son in November and said: "It's great to be given some extra time to spend with my newborn and support my partner during these special first few weeks."

↑ Maggie with Lisa Minting at the European Diversity Awards last month, where the WPN were finalists in the Outstanding Employee Network of the Year.

← Laurence Ollier and his newborn baby.



The Working Parents Network has been instrumental in campaigning for these changes. Alex Chinchen and Maggie Brown from the network said: "We'd like to thank everyone involved for their hard work. The generous additional provisions continue to demonstrate EDF's commitment to being one of the best employers in the UK for parents. We look forward to supporting the next round of reviews and are proud to be working for an employer that listens and places importance on employee experience."

VISIT THE NEW PARENTING HUB IN MyHR



WHERE IN THE WORLD?

POWERED BY PALM LEAVES

Construction is well underway on the largest biomass plant in West Africa.



Ivory Coast, West Africa

The new 46MW biomass power plant will be located in the commune of Aboisso, approximately 100km east of Abidjan on the Ivory Coast. Powered by agricultural waste, it will meet the electricity needs of 1.7 million people.

The plant is part of the country's National Action Plan for Renewable Energies which aims to achieve 45% of its energy mix from renewable energies by 2030.

Construction has created around 500 local jobs and during the plant's operating period, more than 1,000 local full-time workers will be needed.

Purchasing the biomass, which is mainly palm trees and leaves, will also generate additional income for nearly 12,000 planters in the region for 25 years, to help improve rural living conditions.

The project will help avoid 4.4 million tonnes of CO_2 over 25 years and will make the Ivorian electricity system more reliable.

Commissioning is scheduled for 2025 on this joint venture between Biovéa Energie, EDF, Meridiam and SIFCA.

FIND OUT MORE ON VIVRE ONLINE

2024 EUROPEAN DIVERSITY AWARD CHAMPIONS

Congratulations to the Women's Network who won Outstanding Women's Network of the Year at the awards in London on 8 November. Our LGBTQ+ Supporters Network, Working Parents Network and Neurodiversity Network were also finalists.

The awards celebrate the amazing individuals, organisations and networks that drive equity, diversity and inclusion.

FIND OUT MORE ON eNZO





CELEBRATING OUR NETWORK VOLUNTEERS

It's International Volunteers Day on 5 December and we want to take a moment to recognise the incredible contribution our Employee Network committee members make, through volunteering their time to support us all.

The volunteers make our company a special place, where everyone is welcome and able to bring their whole selves to work. They dedicate their time and skills, putting on events and activities - from cultural awareness to career development - that make a huge difference to our company culture and our commitment to do right by each other.

Thank you for all of your hard work.

H2H The great charity bike ride challenge! EDF Nuclear Operations

H2H - THE GREAT CHARITY BIKE RIDE CHALLENGE

Next summer, teams across Nuclear Operations and Nuclear Services will take on a 100-mile challenge from Heysham to Hartlepool (H2H). It's their biggest ever fleet-wide charity event, with all funds raised going to Alzheimer's Society and Alzheimer's Scotland.

Hartlepool Station Director Mark Lees is taking part and said: "I'm no athlete, but as Alzheimer's is such a crippling disease, I really couldn't think of a single reason why I couldn't support this fantastic cause!"

If you would like to donate, please go to the Just Giving hub on eNZO and select the site you wish to donate to. Please make sure you donate to the H2H charity bike ride page.

OUR FESTIVE QUIZ



Ho ho ho! Put on your favourite festive jumper and test your knowledge of all things Christmas.

1. What popular Christmas beverage is also known as "milk punch"?
A. Hot chocolate
B. Eggnog
C. Mulled wine

2. What other two names are most popular for Santa Claus?
A. Kris Kringle and Saint Nick
B. Father Christmas and Saint Nick
C. Kris Kringle and Father Christmas

3. What is traditionally hidden inside a Christmas pudding?
A. A coin
B. A walnut
C. A candy cane

4. In the song "Jingle Bells," what is it fun to ride in?
A. A one-horse open sleigh
B. A reindeer-drawn sleigh
C. A snowmobile

5. Which country started the tradition of putting up a Christmas tree?
A. Germany
B. Norway
C. Sweden

6. What are you supposed to do when you find yourself under the mistletoe?
A. Sing a Christmas carol
B. Kiss
C. Dance

7. What is the name of the Grinch's dog in the Dr. Seuss book "How the Grinch Stole Christmas"?
A. Max
B. Sam
C. Buddy

8. What does the red-nosed reindeer, Rudolph, use his nose for?
A. To guide Santa's sleigh
B. To play with other reindeer
C. To decorate the North Pole

9. What traditional Christmas decoration is actually a parasitic plant?
A. Holly
B. Mistletoe
C. Poinsettia

10. What is Frosty the Snowman's nose made out of?
A. Buttons
B. Carrot
C. Coal

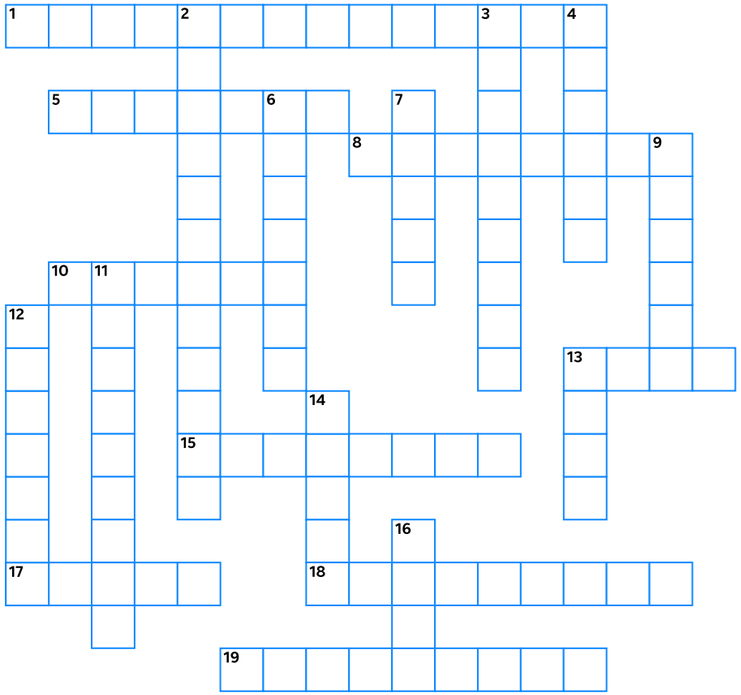
Answers: 1b; 2c; 3a; 4a; 5a; 6b; 7a; 8a; 9b; 10a.



WINTER PUZZLE FUN

Answer the clues to solve our winter crossword. Then see if you can find your answers in our word search.

CROSSWORD



Across

1. Aurora Borealis (8, 6)
5. Ice or roller, you need special footwear for this (7)
8. When the temperature is below 0°C it's _____ (8)
10. A long shard of frozen ice (6)
13. A woolly hat for your teapot is a tea ____ (4)
15. Also called a sled (8)
17. A snowman often has one round his neck (5)
18. They say every one is unique (9)
19. You'll find wood, a hearth and a poker here (9)

Down

2. A sweet warm drink loved by children (and adults!) (3, 9)
3. Sleep through the winter (9)
4. Fast paced sport where you whizz downhill (6)
6. A time to sing Auld Lang Syne perhaps (3, 4)
7. A wintery man, his name is Jack _____ (5)
9. They keep your hands warm (6)
11. It's celebrated in this country on 25 December (9)
12. Another way to say sweaters (7)
13. Complete the song, Baby it's ____ Outside (4)
14. A high street chemist or something for your feet (5)
16. Warming liquid food (4)

WORD SEARCH

										I	Z	Y										
										X	V	L										
										B	D	H										
									A	L	S	E	N									
									O	O	C	Y	O									
								C	U	A	J	E	R	S								
								P	L	E	U	N	T	K								
								P	X	K	M	S	H	I								
G	L	L	L	E	Z	T	I	E	S	C	A	P	C	E	I	Z	Q	H	S	Y	A	P	Q
N	E	W	Y	E	A	R	R	F	K	G	L	E	A	R	N	E	T	O	C	S	M	H	C
		G	A	N	R	I	R	B	A	N	F	R	R	N	G	L	Z	T	H	O	F	Y	
			L	L	F	O	L	R	T	I	W	S	F	L	E	C	F	C	R	C	F		
				O	S	Z	B	T	I	Z	O	I	P	I	T	I	O	H	I	H			
				T	V	N	Z	O	N	E	N	T	C	G	A	C	M	O	S	S			
					M	E	P	B	G	E	S	H	U	H	N	I	K	C	T				
				T	U	N	S	O	H	R	U	M	P	T	R	R	Q	O	M	K			
				W	T	R	Q	G	M	F	C	E	Z	S	E	O	O	L	A	R			
			B	L	I	C	D	G	X	Z	E	M	W	X	B	B	N	A	S	D	L		
			T	N	J	J	O	A	Z	P				J	I	D	S	T	T	D	M		
			W	H	Q	S	F	N	M	Y				O	H	P	F	E	H	D	L		
		R	S	Z	E	E	N	P	P						U	F	N	U	T	Z	D	D	
		M	O	S	T	Y	O										Z	P	V	J	U	Z	
D	F	O	I	J																Z	H	N	C
P	H	O																				T	D



Answers Across: 1. Northern Lights 5. Skating 8. Freezing 10. Icicle 13. Cosy 15. Toboggan 17. Scarf 18. Snowflake 19. Fireplace
Answers Down 1. Hot chocolate 3. Hibernate 4. Skiing 6. New Year 7. Frost 9. Gloves 11. Christmas 12. Jumpers 13. Cold 14. Boots 16. Soup



2024 PHOTO COMPETITION

Malik Shuwaib, a Performance Analyst in Asset Operations, EDF Renewables UK and Ireland, shares this shot of a beautiful sunset over the Lancashire hills. The photo was taken from the wind turbines in Edenfield, Rossendale. Taking time out to appreciate nature is a great way to manage your mental health, which is our theme for this year's photo competition.

See more of our 2024 photo competition entries on eNZO.

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