

SteelNews

March 2023
Issue 12

Your community magazine



“Steel is at a crossroads, but we can own the future”

Henrik Adam, Chair of Tata Steel UK

The new year has seen a flurry of press activity around the UK steel industry – and Tata Steel UK Chairman Henrik Adam has been at the centre of it.

It was the Daily Mirror that kicked off the most recent national coverage, featuring a study showing that the UK will need at least 10 million tonnes of steel for a green energy-based economy: steel for windfarms, solar farms, nuclear power stations, sustainable buildings and electric vehicles (see page 7).

A recent opinion piece in The Times set out Tata Steel’s stance on decarbonising UK steel supply chains, and the support required from the UK government.

Henrik said our industry is at a

crossroads: “Down one path lies the slow decline of steelmaking... down the other path is a new era in which we transform the steel production process to make it fit to face the ever-changing challenges of society.

“This an exciting opportunity, which would secure steel supplies for the UK’s future, supercharge levelling up and create well-paid, high-skilled jobs. Critically, it would be an essential part of the UK’s drive to meet its net zero objectives. This is green steel.”

He continued: “The government could act to help transform British industry into sustainable world leaders. Alternatively, it could allow factories to shut and import higher-emission goods from other countries

instead. This is, of course, illogical and undermines Britain’s economy and the global effort to tackle climate change.”

Henrik also focused on the issue of national resilience: “Anyone who has witnessed supply chain shortages in recent years knows the importance of building domestic resilience in essential industries.

“Thanks to huge investments in reducing emissions, Tata Steel’s Port Talbot plant is in the top third of the most CO2 efficient integrated steelworks globally. Despite this, it alone contributes 2% of the UK’s overall carbon emissions. For this country to reach net zero by 2050 we need to invest in transformative technologies to produce steel in a

carbon neutral way.

“We understand the technologies, we have the ambition, we have the people, but we cannot do it alone. We need support from the government on the scale which is already being provided by our European neighbours to their steel producers, both in terms of direct investment and electricity market reform.

“In a volatile and uncertain world, a strong domestic steel sector is a vital pillar of our economic independence, industrial resilience, and national security. We can own the future and lead the world in the Green Industrial Revolution, or watch this great opportunity slip away.”

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NOTICE TO OUR NEIGHBOURS

The first thing I'd like to recognise is the impact that recent events caused by operational instability have been having on our neighbours.

I've seen the pictures and I've heard the noises – irrespective of the operational or safety reasons, no one wants nearby families to be affected in this way.

On behalf of Tata Steel, I apologise unreservedly to anyone who has been impacted.

Many of our primary processes operate at pressure. Each of those processes have pressure-relief valves (bleeders), which are designed to open if the pressure gets too high.

This can cause a loud noise and can sometimes be accompanied by dust. If the bleeders didn't open when the pressure gets too high, the blast furnace would become unsafe for those who work in and around them.

Those systems will operate for as long as there is a need to relieve pressure, or until the process becomes stable again.

Rest assured, when this happens the operational teams will be working flat out to resolve the issue – it's not good for steelmaking and it's not good for our neighbours.

While blast furnaces are huge, they are also complex with many chemical and physical reactions occurring continuously within them.

They are scientifically monitored with thousands of measurements taking place every minute. But the stability of those reactions can be affected by relatively small changes to the burden (iron and coke) – factors such as chemical composition, particle size, temperature, or moisture content.

The wet weather throughout January did not help, despite much work in recent years in our stock yards to improve drainage. That has been combined with the lack of availability of one of our 'stoves' (that provide the hot blast air), which was offline for essential maintenance.

This meant the furnaces were operating at lower temperatures than is ideal. While this doesn't affect production directly, it can lead to occasional slips in the burden which cause a pressure spike, resulting in the bleeders opening.

I am pleased to say, however, that this latest work on stove 13 has now been completed, which we believe should improve the situation.

I would also like to reassure you that every day, at the most senior level, we review such interruptions and emissions to make sure we are prioritising actions that impact safety and the local environment.

Once again, I apologise for the impact recent events have had on residents. We are all working hard to



Aerial View of Blast Furnace 4

build a clean, green, sustainable steel industry and believe we have a critical role to play in helping the UK become carbon net-zero, providing

steels for windfarms, solar farms, sustainable buildings, recyclable packaging and electric vehicles. I'm sure that's something we can

all get behind.

From Works Manager, Iron & Burdening, Dean Cartwright

EnvironmentCorner

Tata Steel has partnered up with Buglife, the charity dedicated to saving everything from bees to beetles, worms to woodlice and jumping spiders to jellyfish.

This partnership will see Tata Steel UK creating more grassland areas across our Port Talbot site for invertebrates, pollinators and other wildlife to live.

The Port Talbot site is home to one of the UK's rarest bumblebees – the Shril Carder Bee – highlighting just how important it is that we look after our grassland areas and provide more spaces for these species, and others, to thrive.

Since 1940 the UK has lost 97% of its wildflower rich grassland, having a detrimental effect on wildlife.

As Sir David Attenborough once said: 'If we and the rest of the back-boned animals were to disappear overnight, the rest of the world would get on pretty well. But if the invertebrates were to disappear, the world's ecosystems would collapse.'

Throughout 2023, Tata Steel will only be cutting our dedicated grassland areas twice to ensure the grass can grow and enhance biodiversity. We hope that this will support those species already in place and bring more species to the area.

TATA STEEL



DESIGN OUR NEW SIGNS

Help us design the new **grassland signs** at our Port Talbot site

We are focusing on cutting less grass to create wildflower meadows which will become new homes for invertebrates.

For those aged 16 and under • Closing date April 30 2023



Design inspiration:

Key words -

- No mow sign
- Pollinator sign
- Wildflowers
- Insects
- Bumblebees
- Environment
- Wildlife
- Butterfly
- Bugs
- Plants

Submit your designs here:

Email: community.support@tatasteleurope.com

Post to: Environment Team, Tata Steel, Port Talbot SA13 2NG

It's important that our own staff and visitors understand what these areas are for, and why they're

important, so we are asking local children to help us to produce the signs for the grassland areas.

Please see the graphic for more information and how to get involved.

Get in touch with our Environment team

To log a complaint with Tata Steel UK's Environment team:

• You can call our community support line on – 0800 138 6560

• Or log your complaint on our website here:



Once you have logged the details of the complaint – if you wish to submit a claim to have your vehicle cleaned, please send the reference number of the logged complaint, your name, and details of what you are claiming for to community.claims@tatasteleurope.com.

Reducing our carbon footprint

160,000 tonnes of CO₂ savings from blast furnace improvement programme

BEHIND THE BARRIER

HOW OUR BLAST FURNACES WORK

The blast furnace operates on a continuous basis.

Air produced at a high pressure in the Power Station is passed through the furnace stoves where it is heated to temperatures in the range of 1000 - 1200°C.

This high-pressurised hot air is then injected together with granulated coal into the furnace and flows upwards to the top.

The air reacts with carbon bearing materials to form carbon monoxide, reducing the iron ore to iron as it travels up the furnace.

Non-iron bearing materials in the furnace form a slag which is molten at the high temperatures inside.

The molten iron and molten slag produced in the furnace both fall to the hearth where they are periodically "tapped" through a taphole.

The iron and slag flowing from the taphole are separated in the iron runner with the slag being skimmed off the top of the iron into the slag runner to be further processed.

The iron flows underneath a skimmer arrangement to ensure slag free iron can then pass into mobile torpedo ladles to allow transportation by rail to the steel plant.



Port Talbot at sunset

Back in December, a programme of improvements at Tata Steel's blast furnaces was undertaken to reduce the Port Talbot site's carbon footprint by about 160,000 tonnes of CO₂ a year. That's equivalent to the annual emissions from nearly 100,000 cars or those from the energy used by around 50,000 households (a town the size of Cheltenham).

The two Port Talbot furnaces, which currently produce around 3.6million

tonnes of liquid iron each year, are powered by high pressure 'hot blast' air that is superheated to temperatures of more than 1,100°C.

Recycled on-site process gases are used to heat the air in seven refractory-brick-lined 'stoves', before it is injected into the furnaces.

Each stove is around 45m high and 8m in diameter.

Project Manager Andrew McGregor, who oversees the

improvement programme, said: "Stoves are critical to the running of our blast furnaces.

"Any loss of efficiency in heating the air means we either have to use more gas than is optimum, or we have to replace that lost energy by using more metallurgical coke to chemically reduce the iron ore inside the furnaces."

The continuous improvement programme of work in three of the

seven stoves upgrades the burners that generate heat, with two new best available technology units being installed.

"Many of the refractory bricks that store heat and make hot blast air, were also replaced."

Andrew said: "This programme of activity has made a significant difference to our carbon footprint, our energy costs and our operational stability and efficiency."



Port Talbot opens its doors to Secretary of State for Wales

Last month Tata Steel UK welcomed the Secretary of State for Wales, David TC Davies MP, to visit its Port Talbot site.

The Minister, who was briefly employed by British Steel, and was brought up not far from Tata Steel's Llanwern site, had the opportunity to visit to the Blast Furnace Control Room and Hot Mill as part of a fact-finding mission on steel to support his portfolio and ministerial responsibilities.

Speaking of the visit, the Secretary of State said: "Thank you to everyone at Tata Steel for taking the time to show myself and my colleagues from the Wales office around the site.

"After years of driving past Port Talbot, it was a privilege to come inside and see the steelmaking

processes firsthand.

"It is clear just how important steel is to the Welsh and UK economies, and I will continue to champion the sector in my role as Secretary of State for Wales."

Director of Decarbonisation, Huw Morgan added: "It was great to welcome the Secretary of State to Port Talbot and to provide an insight into the fascinating and complex world of steelmaking.

"It was clear that the site and works areas left an impression on the Minister.

"Visits like these are invaluable in our engagement with key stakeholders and to ensure they are armed with the necessary information about our processes, our people and the communities in which Tata Steel operates.



Secretary of State for Wales, David TC Davies on a recent visit to Port Talbot's Hot Mill

MartinBrunnock

View from the top

National debate over Britain's steel industry

2023 began with widespread interest in the steel sector and a national debate over its future.

We have since welcomed the Secretary of State for Wales, several national newspapers, think-tanks and energy providers to our Port Talbot site, all of which have shared a deep interest in the future of our steelmaking operations.

This will feel like déjà vu for many readers, but the opportunity and the challenge feel fundamentally different to anything the steel industry has encountered before and the stakes could not be any higher.

At the beginning of the year, our UK Chairman Henrik Adam outlined a brighter, greener opportunity for steel production in a net zero future.

Wales has a proud history of steelmaking and could lead the next technological leap forward to produce green steel for offshore floating wind in the Celtic Sea, the next family car you buy and the major infrastructure projects that will build cities and towns of the future.

As a company, we've also been open and honest about the challenge that lies ahead and the costs of doing nothing.

The threat of industrial decline and a sad ending to the country's proud history of steelmaking is real.

We are fortunate to be supported by our local community and we understand the important role that the steelworks plays both culturally and economically in Port Talbot and the wider South Wales area.

We understand the technologies, we have the ambition, we have the people, but we cannot do it alone. We need support from the government to make this change happen and as a business we are working incredibly hard to secure a future for steelmaking in Wales and the UK, that has the community, our employees and sustainability at its heart.

We have the opportunity to create our own future and lead the world in the Green Industrial Revolution, or we will watch this great opportunity slip away.



Martin

Martin Brunnock
Director of
Communication and
Public Affairs

Get involved – Parc Margam 10K is back!

A breath-taking challenge in breath-taking surroundings - the Parc Margam 10k run is back on Sunday 12 March 2023!

Choose between the 10k & 5k mixed terrain routes and help raise funds and awareness for two amazing charities: Neath Port Talbot Stroke Group and National Autistic Society (Cymru).

All participants will receive a 2023 Parc Margam branded medal at the finish line. Register today and be part of this exciting event in aid of the Mayor of Neath Port Talbot's nominated charities.



PARC MARGAM 10K
Cefnogiwr gan-ysgrifedig gan
John Pyc Auctions



Supporting the local community at Christmas

As Tata Steel UK embarks on 2023 and the new challenges ahead, *Steel News* wanted to look back at the amazing work that went on across the business' Port Talbot site to support the local community over the Christmas period.

Public Affairs and Community Manager Lewis Clark said: "Christmas provided another opportunity for us as a business to give back to the communities surrounding our site. We are all aware of how challenging recent months have been due to the cost of living and, as a company, we were eager to play our part and help where possible.

"The response to our Christmas appeal was incredible. The Port Talbot site raised over £2,000, as well as hundreds of gifts and food donations to be delivered to local schools and hospitals, to ensure those struggling this year had an enjoyable festive period.

"We helped to provide Christmas dinner for those suffering with their mental health in Neath Port Talbot, in partnership with Swansea Bay University Health Board, and supported community groups with resourcing their Christmas trees for the festive period, working with our partners at Runtech."

"Our Port Talbot Christmas parties at the recently refurbished Plaza helped to raise another £2,000 for the homelessness charity Llamau and their work in Neath Port Talbot specifically – while also giving something back to our local staff and their families."

Speaking of the efforts over the Christmas period, Director of Communications and Public Affairs



Ysgol Bae Baglan pupils delivered Tata Steel's donations to spread Christmas cheer

Martin Brunnock said: "A particular mention to our very own Steelworks Santa, Allan Evans, who raised over £10,000 for his chosen charities, GIST Cancer, Alzheimer's Society and Blood Bike Wales through his appearances as Father Christmas across South Wales.

"Tata Steel UK prides itself on the role we play in the communities in which we operate, and without the support of its employees we would not have the impact that we do. This Christmas period has again highlighted that we are more than just a business, but an important part of our communities."



Tata Steel UK drop off to Ysgol Cwm Brombil



Learning on the job. Tata Steel apprentices are mentored by experienced employees to ensure they get the proper training and direction

Could you be our next apprentice?

Tata Steel's Apprentice applications for our UK sites are now open and will close on Sunday 19th March 2023.

Earlier this month we celebrated National Apprenticeship Week – marking the opening of our 2023 Apprenticeship Programme.

In support of this year's 'Skills for Life' theme, Tata Steel is shining a light on apprenticeships - reflecting on how apprenticeships can help individuals to develop the skills and knowledge required for a rewarding career and can help businesses develop a talented workforce that is equipped with future-ready skills.

Steel News caught up with Talent Acquisition & Development Advisor, Kelly Coombs to find out more about the scheme Tata Steel operates and how apprenticeships ensure the workforce possess the skills and qualifications needed to provide world-class products and services.

Tata Steel has a long and successful history of recruiting apprentices. "It's in

our DNA," explained Kelly.

"It is often difficult to find the talent required to support our complex steel industry, but our apprenticeship programmes ensure that we have a readymade pool of talent that can be nurtured and become the next generation of steel workers.

"Apprenticeships will always be a key part of our skills and talent agenda."

Studies have shown apprenticeships to be beneficial to economic recovery. Tata Steel along with many other businesses must keep up momentum and continue nurturing and developing the skills of the workforce of the future.

According to Kelly, apprentices bring innovative ideas and new ways of thinking to organisations. "They learn best practices from their training provider that can be brought on site to improve Tata Steel's processes. Investing in talent from the offset means apprentices can develop and grow, and it is this commitment that will mean they are more likely to want to stay and grow with us."



60-second interview

As we continue to highlight our apprenticeship opportunities, Steel News caught up with Tata Steel UK's Catrin George, who discussed her apprenticeship and career development since joining the business.

What is your current role with Tata Steel UK?

I am currently a Junior Buyer within the Procurement Departments' Scrap, Energy and Utilities team. My job is to support the business with sourcing its scrap resource for our steelmaking processes, as well as with energy and utilities which keep the steel works operating.

When did you join the business and why?

I joined Tata Steel UK in 2021. Having decided that University was not the best option for me, I completed my A-levels and began working in insurance. I really wanted a job that challenged me, provided opportunities for growth and development and one that would allow me to be a part of a tight-knit team. I did some research and came across the Tata Steel UK apprenticeship programme, which looked like a great fit. I haven't looked back since.

Can you give us an overview of your apprenticeship?

My apprenticeship provided me with a fantastic overview of Tata Steel UK as a business. I got to understand our manufacturing processes, what materials need to be resourced and why, engaging with suppliers and managing the procurement process from start to finish.

What would you say to others thinking of doing an apprenticeship with Tata Steel UK?

There are very few businesses that provide the opportunities that Tata Steel does. If you want to be challenged and develop both professionally and personally, I whole-heartedly recommend the apprenticeship programme.

It's an incredibly exciting place to work, and every day brings new challenges and opportunities.

There couldn't be a better time to begin a career in the steel industry.

CAST A CAREER IN STEEL

Our strength is not just within our steel, but also in the diversity of our workforce.

Joining Tata Steel offers an unparalleled opportunity for a long-term, rewarding future.

Our current vacancies include:

Mechanical Engineering • Electrical Engineering • Finance
Environmental Engineering • Manufacturing Management
Supply Chain



To apply, please scan the QR code, visit tatasteel.com/careers or email recruitmentuk@tatasteel.com before Sunday 19 March.



Celebrating the Community – An evening of the Richard Burton 10K

More than £50,000 has been handed over to local charities, good causes and individuals in the Port Talbot area following record-breaking fundraising by more than 2,400 participants in the 40th anniversary Tata Steel Richard Burton 10k run.

Runners of all ages from across the UK took part in the race in November and hundreds of youngsters competed in the Runtech-sponsored 'Kevin Webber mini-miler'.

Last month, Tata Steel hosted a presentation event, which saw more than 100 people pack in for what was a heartwarming evening. Local VIPs included Stephen Kinnock MP, David Rees MS, the Mayor and Mayoress, as well as local legend Captain Beany.

Race organisers and Cwmafan locals Shaun and Anna Tobin handed out the funds raised to a host of special charities and individuals from across Neath Port Talbot and the wider south Wales area, including Margam Stags Inclusion Football; Cwmafan Guides and Brownies; Ysgol Cwm Brombil; Mal's Mauraders; Cwmafan Hornets Boxing Club; and Blood Bikes Wales, to name a few.

Tata Steel employee Shaun Tobin said: "Evenings such as this remind us all just how important events like this and employers like Tata Steel are.

"Without the support of the business, and others such as Runtech, this race would not be possible.

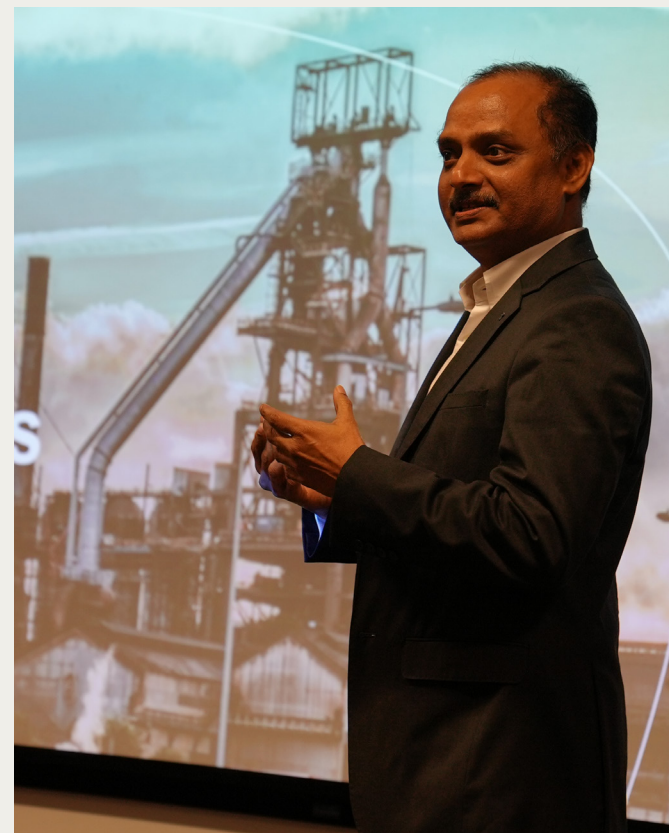
"And without the race this community may not have some of the brilliant organisations that we have celebrated this evening."

Tata Steel's Chief Operating Officer, Rajesh Nair, then shared some of the funds with a very special family whose little girl Olivia was diagnosed with a rare form of cancer.

"There was hardly a dry eye in the room as Shaun, Anna and Rajesh



Celebrating the 40th Anniversary of the Tata Steel Richard Burton 10K



Tata Steel UK Chief Operating Officer, Rajesh Nair

welcomed them to the stage and handed over funds that will go towards their travel to America for Olivia's life-saving treatment."

Rajesh said: "It was an absolute privilege to be invited this evening. Thank you to everyone who shared their stories, told us of the work they are doing to support their communities and for the generosity of all those involved in organising the race and fundraising for these outstanding causes and individuals.

"Evenings like this remind all of us of the importance of the community. It is an honour to play a small role through Tata Steel both as an employer and a supporter of the local area."



John Heycock (Margam Stags Inclusion Football), Captain Beany, and race organiser Shaun Tobin.

A look into the future

You can download, listen and subscribe to the fantastic SteelCast series wherever you get your podcasts.

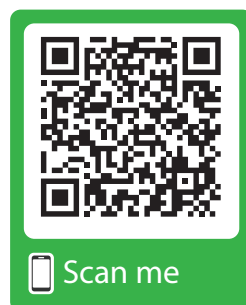
The global steel industry faces one of the biggest challenges in its history: how to significantly reduce its carbon emissions for the good of the climate.

While every energy-intensive industry's contribution to positive climate change will be dramatic, the technology changes that are required to enable such change will come at a cost.

The latest series of "SteelCast", Tata

Steel UK's podcast, talks to industry experts inside and outside the company not only about the basic science behind the problem and the technology choices, but also about the huge amount of work already under way to reduce the company's carbon footprint and that of its products in use.

As Head of Public Relations Tim Rutter said: "Anyone who is interested in what happens next to our industry will want to listen to these – I've learnt a lot interviewing our guests, I'm sure others will, too."



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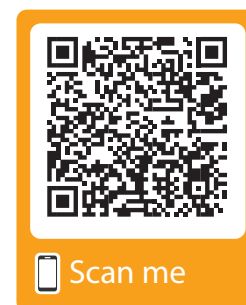
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THE ROAD TO NET ZERO

Canned recipe



Steel will play an integral role as the UK aims to become energy self-sufficient.



Tuna noodle salad with wafu dressing

There is a good chance the steel in the canned food you purchase in the UK will likely have been made in Port Talbot and Llanwern, and produced into tinplate for the food industry in Trostre. So, why not serve up this tasty dish to your family and friends!

Ingredients:

- Salad
- 6g wakame seaweed
 - 200g udon noodles
 - 4 tablespoons sesame seeds
 - 2 tins of tuna (preferred pole and line caught and MSC certified) in sunflower oil, drained
 - 1 spring onion, white and light green parts, thinly sliced into rings
- Wafu dressing
- 2 tablespoons sesame oil
 - 2 tablespoons canola oil
 - 2 tablespoons rice wine vinegar
 - 1 tablespoon mirin
 - 1 tablespoon soy sauce

Method:

1. To prepare the wakame: Put the wakame in a bowl with 2 cups (½ litre) of boiling water and leave to soak for 10 minutes. Drain the seaweed in a colander for 5 minutes, cut into ¾-inch (2cm) pieces, and leave to cool.
2. Cook the noodles according to the package directions.
3. Lightly toast the sesame seeds in a dry frying pan until golden. Set aside.
4. To make the dressing: Whisk the sesame oil, canola oil, rice wine vinegar, mirin, and soy sauce in a bowl. Set aside.
5. Drain the noodles in a colander, transfer to a bowl, and stir through the wakame and three-quarters of the dressing. Divide the noodles between two bowls. Top each portion with tuna, sprinkle with the spring onion and sesame seeds, and then drizzle with the rest of the dressing. Serve immediately.

This is an exciting new recipe from Bart Van Olphen's new book, *The Tinned Fish Cookbook: Easy-to-Make Meals from Ocean to Plate – Sustainably Canned, 100% Delicious.*

A research study published by Tata Steel UK has revealed that more than 10 million tonnes of steel will be needed over the coming years to improve Britain's energy self-sufficiency.

The study identified the amount of steel needed to build crucial UK energy projects: 5.3m tonnes by 2030 to build offshore wind turbines, two million tonnes for nuclear power projects, 1.5m for solar energy schemes and another 1.5m for infrastructure to exploit hydrogen and to develop big carbon capture and storage projects.

Henrik Adam, Chairman of Tata Steel UK, said: "Recent events have shown us just how crucial it is to have a secure energy supply.

"Achieving this will need an energy revolution in this country requiring millions of tonnes of steel to build new energy generation projects.

"UK steelmakers, like Tata Steel, want to be part of this revolution, such as by developing new steel products for solar farms or for floating offshore wind structures.

"A strong domestic and secure steel industry is also fundamental to delivering

the UK Government's ambitious energy plans.

"But if British manufacturers are to supply the essential steel and continue to employ many thousands of people in this country, we need to invest and transform this strategically important industry so it can make carbon-neutral steel."

Roy Rickhuss CBE, Community Union, said: "The green energy revolution presents a huge opportunity to build a robust British supply chain based on the supply of top-quality domestic steel.

"Not only will using Britain's steel be crucial to meeting our climate objectives, it will support thousands of good jobs and steel communities across the country."

Gareth Stace, UK Steel, said: "The UK already has the largest offshore wind sector in the world, but with a target to increase capacity by 400% this decade, we are only getting started.

"The UK steel industry is in a prime position to supply the steel for this new UK energy infrastructure and doing so will help maximise the jobs and economic growth the energy transition can deliver for the UK."

Crossword and Sudoku solutions

Across: 1 Degenerate; 7 Sty; 8 Stadium; 9 Gape; 11 Old maid; 12 Lurid; 13 Sledge; 15 Agouti; 18 Satyr; 20 Assyria; 22 Puff; 23 Bolivia; 24 Mat; 25 Peach Melba.
Down: 1 Dispossess; 2 Grandee; 3 Naira; 4 Remedy; 5 Tagalog; 6 Ate; 7 Spur; 10 Addis Ababa; 14 Giraffe; 16 Unravel; 17 Iambic; 19 Tout; 21 Salem; 22 Pad.

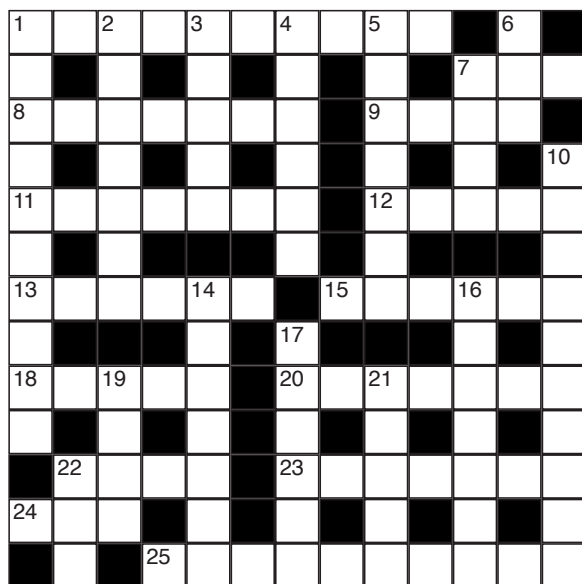
Puzzle solutions

8	7	3	5	1	6	2	4	9
6	9	5	8	4	2	7	3	1
1	2	4	3	7	9	5	6	8
7	1	9	6	3	8	4	5	2
5	3	2	7	9	4	8	1	6
4	6	8	2	5	1	3	9	7
2	4	6	9	8	3	1	7	5
9	5	1	4	2	7	6	8	3
3	8	7	1	6	5	9	2	4

HERITAGE CORNER: APPRENTICES

Each edition, we take a rummage around our archives from the last 50 years, to find stories that will bring back fond memories. As we continue our programme of apprentice recruitment, we wanted to shine a light on those apprentices from years gone by and highlight how we continue to invest in our people.

Crossword... solution on page 7



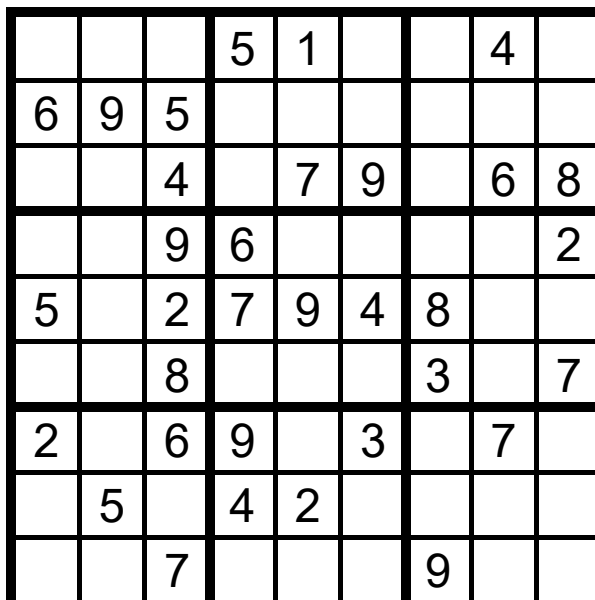
Across

- 1 Lose good qualities (10)
 7 Pigpen (3)
 8 Arena: athletics ground (7)
 9 Open mouth in amazement (4)
 11 Elderly unmarried woman (3,4)
 12 Vivid in colour (5)
 13 Snow vehicle (6)
 15 Burrowing rodent: IOU tag (anag) (6)
 18 Greek mythological goat/man (5)
 20 Old part of Mesopotamia (7)
 22 Quick light burst of wind (4)
 23 S American republic (7)
 24 Small rug (3)
 25 Fruit and ice cream (5,5)

Down

- 1 Deprive of belongings (10)
 2 Portuguese nobleman (7)
 3 Nigerian money (5)
 4 Treatment for disease (6)
 5 Inhabitant of Philippines (7)
 6 Consumed (3)
 7 Spiked goad worn by horseman (4)
 10 Capital of Ethiopia (5,5)
 14 African animal (7)
 16 Disentangle (7)
 17 Written with short, then stressed, syllables (6)
 19 Pester customers for business (4)
 21 Site of 1692 witchcraft trials (5)
 22 One's own home: stuff (3)

Sudoku... solution on page 7



Apprentice Intake – 1985: Rob Jenkins, Steve Perry, Martin Lewis, Jonathon Libby, Ray Newell, Wayne Street, Carl Bickle

Martin Lewis – From Apprentice to Senior Manager

Tata Steel UK Engineering Project Manager, Martin Lewis, left school with the bare minimum qualifications, but with a huge thirst for engineering and technology.

Having discovered the apprenticeship opportunities available with what was then British Steel, Martin realised the apprenticeship provided everything that was needed to develop his knowledge, whilst also learning social and professional life skills.

Undertaking a four-year electrical engineering apprenticeship, Martin was then supported in his academic studies, enrolling in both a two-year Higher National Certificate and then a five-year Honours Degree in Electric Engineering in Cardiff.

Upon completion of his apprenticeship, Martin worked in the steel works' Hot Mill. Having progressed through the ranks, he became a Technical Superintendent in the Mid 90's, leading a team that won the Director's award for Total Quality Performance for an initiative that would save the business several millions of pounds.

In 2013, after 25 years in the Hot Mill, Martin made a bold move to apply for his first Senior Management Role to become Plant Manager in the Ironworks, as head of Coal Injection & Raw Materials Delivery.

In 2018, another opportunity arose, and Martin was this time seconded to the Blast Furnace number 5 life extension project,

where he had his first experience of project development. This secondment clearly stood him in good stead, as Martin is now Tata Steel UK's Capital Expenditure Project Manager for Steel and Slab.

Speaking of his experiences from apprentice to senior manager, Martin said: "Along the way there have been so many memorable moments. I have been taught by so many talented, knowledgeable and skilful people. My various roles have taken me to Europe, Asia and America, to understand global steel making practices.

"As an apprentice or young engineer, the steel industry is so technically advanced. It is unique and cutting edge, providing the opportunity to work with a diverse range of state-of-the-art technologies.

"Where else could you experience so much?"

If you were an apprentice with the steelworks in and around South Wales, we'd love to see your photos and hear your stories from your first days on the job. Get in touch at ukcommunities@tatasteel.com



Director Award – 1995: Dai Blackmore, Gareth Hillen, Keri Thomas, Derek Lowe, Bob Emmett, Martin Lewis



B Eng Degree Ceremony – 1996: Carl Bickle, Mike Davies, Wayne Street, Dave Warner, Martin Lewis

Send in your heritage pictures and memories to us via email ukcommunities@tatasteel.com

Steel
Matters

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