

# HS2

# Introducing HS2's Net Zero Carbon Plan

HS2 Supply Chain Management



# Tackling Carbon within the Supply Chain

HS2's supply chain has already made a monumental contribution towards reducing the carbon footprint of the HS2 programme. Across Phase One (West Midlands – London), we have reduced carbon in construction by 25%, halfway towards our 50% whole-life carbon reduction target. As a twenty-year programme, we have the scale and longevity to enact real change in how major infrastructure is delivered around the world.

We understand that the route to net zero is a new and unique journey for all our suppliers, which is why engagement and collaboration is a key part of our strategy. We want to ensure that we are supporting you on your carbon journey, whilst developing and deploying innovative solutions for the benefit of HS2 and the wider industry.

Our Net Zero Carbon Plan, published in 2021, prioritises working with our suppliers to achieve key milestones. It's important to understand our roadmap to achieving net zero and how your business can play its part in delivering the most sustainable high-speed rail network in the world.



## In this brochure you will find:

- A brief outline of our key ambitions and journey to achieving destination net zero
- The importance of our supply chain in delivering our net zero ambitions
- Links to resources available to support our supply chain partners in achieving their net zero ambitions

# Supporting our Supply Chain

For HS2, scope 3 emissions make up most of our carbon footprint. They include embodied emissions linked to extracting, processing, transporting and manufacturing materials. This includes construction products, fuel and electricity used for building work and to manage waste.

To continue the excellent progress HS2 is making towards destination net-zero requires the commitment of all suppliers towards continuous carbon reduction.

The expectation is that direct suppliers with the largest carbon footprint will attain verified [science-based targets](#). HS2 is continuing to engage our direct suppliers to develop monitoring and reporting and improve how carbon reduction strategies are cascaded down the supply chain.

We need all suppliers to be leaders in their field. As the industry moves towards a low-carbon future, we request your insight on the performance, availability and feasibility of using carbon efficient technologies. The knowledge and intelligence we gain from suppliers determines the pace and route to achieving our net zero carbon ambitions.

The innovations of today will become the standard practice of tomorrow on HS2. We are urging all suppliers to share your progress towards net zero, and the lessons learnt during that journey. Collectively, we can make a transformational difference to UK construction.

## Leading the industry, creating new standards

Learn about HS2's carbon reduction commitments to reach net-zero by 2035. Consider how your business can contribute.



[Read the HS2 Ltd Net Zero Carbon Plan](#)

## Provide your insights and feedback

We aim to continue to build a collaborative relationship with our supply chain. **Please complete our questionnaire to share your experiences on your net zero journey.**



[Share your thoughts](#)

## Connect with and learn from others

We want to promote the great work our suppliers are doing to reduce carbon. Read our case studies and get in touch to showcase your business. Contact details for our tier 1 and 2 contractors can be found on [www.hs2.org.uk/supply-chain](http://www.hs2.org.uk/supply-chain).



[Read our case studies](#)

# Destination Net Zero

We all have an obligation to cut emissions, support new initiatives and meet net zero targets. To ensure our supply chain's objectives are in line with our net zero ambitions, a commitment to net zero will be a condition of winning work on HS2.

We incorporate carbon management performance to ensure we are monitoring, celebrating success and addressing challenges in combatting climate change. We want our supply partners to recognise that excellence in carbon management is achieved by collaboration, ensuring there is a joint commitment towards embedding a carbon reduction culture.

**Our Destination Net Zero** targets include:

- HS2 Ltd to be a net zero carbon business from 2025
- HS2 Ltd to procure zero carbon energy to power the HS2 network from day one of operation
- HS2 to achieve net zero carbon construction and operation from 2035, removing any residual emissions or offsetting. This requires:
  - A 50% reduction in whole life carbon emissions by 2030
  - A 50% reduction in emissions from steel and concrete by 2030
  - The elimination of diesel from all construction sites by 2029



[Download HS2's Environmental Sustainability Vision](#)

## Low carbon concrete

HS2 contractors in London have begun using a new low carbon concrete product which provides a reduction of 42% in CO2 in comparison to standard concrete. Find the article [here](#).

## Innovation in traffic management

Carrying out work means frequent vehicle movements. Read how one of our suppliers has focused on innovation to improve its performance, minimising carbon emissions. Find the article [here](#).

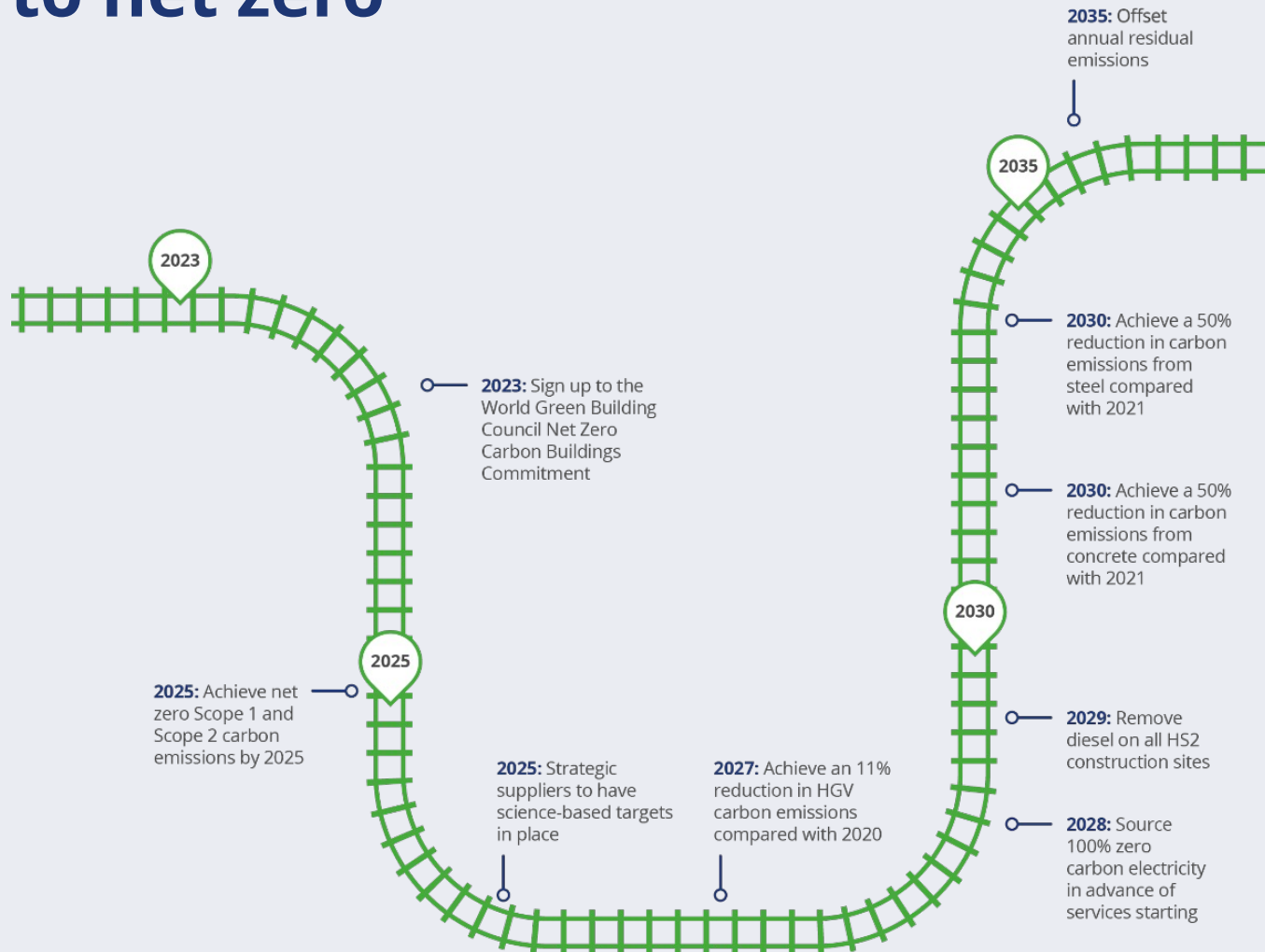
## Greener future through solar and hydrogen

Increased focus on carbon reduction means there is demand for industries to adopt cleaner energy whilst maintaining reliability and cost effectiveness. Find the article [here](#).



[Download HS2's Diesel-Free Plan](#)

# Mapping HS2's journey to net zero



**Net zero**  
for HS2 Ltd corporate activities by 2025



**50% reduction**  
in carbon emissions by 2030



**100%**  
zero carbon electricity to power trains



**100%**  
residual carbon emissions offset from 2035



**Net zero**  
construction and operation from 2035

# How your business can take action

We all have a role in cutting emissions and addressing the challenges in combatting climate change. We want all suppliers to know they are part of the solution. Below are some suggestions and **free** sources to help start or progress your net zero journey.

## Act now

- Use the [Business Carbon Calculator](#) to start measuring your company's full carbon footprint and find quick-win actions to reduce emissions
- Join thousands of UK businesses tackling climate change. Make a simple, public commitment to cut emissions - [UK - SME Climate Hub](#)
- Register on the [HS2 Supply Chain School](#) to review free resources such as the HS2 [Anti Idling Toolkit](#)
- Explore resources available, such as 'How to be a good supplier' and 'Guides, reports and Tools' by The Carbon Trust
- Identify opportunities for efficiency – what actions can you take today in your business?

## Further recommendations

- Sign up to the [Science Based Target Initiative](#) and share your annual progress
- Understand and identify opportunities to:
  - Reduce material use and use alternative low carbon solutions
  - Use 100% renewable energy
  - Reduce diesel use and switch to cleaner alternatives
- Educate operatives and staff, develop training in carbon literacy, obtain carbon data to measure your progress
- Read resources from [The Chancery Lane Project](#)
- Read recommended steps for 'general', 'manufacturing' and 'construction'; amongst other sectors in the [UK - SME Climate Hub](#)

# Supply Chain Sustainability School

With over 18,000 registered companies, the supply chain school is a collaborative approach to engage with your suppliers to meet [HS2 carbon requirements](#). The School is a free resource available to suppliers, that only requires a short registration to sign up.

Review your organisation against the Extended Knowledge Pathways – made up of three levels

- Foundation
- Application
- Extended

Learning pathways are a feature of the School which allocates specific resources to a specified audience to track progress through reports and awarded badges.

You also can attend training and networking events, gain CPD points, complete a self-assessment and get a bespoke action plan, complete e-learning modules and various training resources.

## Infrastructure resources available to support your organisation in aligning with HS2 carbon targets

HS2 and Tier 1 JV's have partnered with the supply chain school to promote best practice across the supply chain.



[Check the latest infrastructure resource page](#)

## HS2 Learning Pathways

- [HS2 Policies and Procedures](#)
- [Sustainability and Carbon](#)
- [Procurement and Supply Chain](#)
- [People and Community](#)
- [Human Rights and Modern Slavery](#)
- [Digital and Offsite](#)

## Topics

- Environmental Management
- Sustainable Procurement
- Sustainability Strategy
- Air Quality
- Biodiversity & Ecology
- Energy & Carbon
- Materials
- Waste & Resource Efficiency
- Water
- Business Ethics
- Community
- Employment
- Modern Slavery
- Supplier Diversity
- Training & Skills
- Wellbeing



300+ training sessions per annum



54 accredited CPD E-learning



HS2 recognised SCSS badges level



Carbon calculator to support your carbon strategies.



@HS2Ltd



@HS2Ltd



@HighSpeedTwo



@HS2Ltd



@HS2Ltd

### Get in Touch

Please email the Supply Chain Team at [scc@hs2.org.uk](mailto:scc@hs2.org.uk)

### Welcoming Suppliers

Sign up to our supply chain [bulletin](#) and receive our supplier guides.

### Your Carbon Journey

Please update HS2 on your carbon journey progress. Fill in the [survey](#) here.

# HS2

## www.hs2.org.uk

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