

Hinkley Point C Supply Chain Update



Delivery Partners for the Hinkley Supply Chain Team

December 2021

Dear



As I write this, I cannot help but wonder where this year has gone! I realise I am biased, but the Hinkley Supply Chain Team really has worked hard this year to help uncover opportunities for the businesses registered on the portal.

So, what has happened this year? 2021 is five years since the Final Investment Decision was made and it's clear to see the achievements being made on and off site. In May, HPC revealed the massive £3.2bn spent within the region so far, with more opportunities to come.

This was also the year that the public was able to get a glimpse of the build via the BBC documentary Building Britain's Biggest Nuclear Power Station. Keep an eye out for the next two episodes in 2023.

This year, the team has regularly engaged with 44 Tier 1 contractors, working on 104 work package opportunities and has matched 1,455 suppliers to those opportunities, meaning that over a quarter of businesses registered have had their details put forward to contractors this year.

In this edition of the newsletter, we have a case study from Bylor, discussing their spend in the region as well as a link to EDF's end of year film about the progress that has been made on site in the past 12 months.

For one final time this year, please can I ask you to update your registration if you have not logged in for a while. Do you still have the correct contacts? Has your company gained capabilities or accreditations this year? All of this could be the difference between being considered or dismissed as a supplier.

It just leaves me to wish you a very happy Christmas and a prosperous New Year from all at the Hinkley Supply Chain.

**Natalie Beacham, Hinkley Supply Chain Project Lead,
Somerset Chamber of Commerce**

Project Update

Big Carl, the world's biggest crane has placed the first steel ring section onto the second reactor building, just 11 months after the same operation on the first reactor.

The installation shows how building an identical copy of the first reactor drives efficiency and saves time. The ring was built 25% more quickly than the same part on Unit One, requiring thousands of hours less labour to manufacture.



This “replication effect” will benefit the identical Sizewell C project in Suffolk. The prefabricated ring, which is 47 metres in diameter and 17 metres high forms a reinforced cylinder around the nuclear reactor and is a key milestone in the construction of the second reactor building.

The first low-pressure (LP) rotor, which will form part of the World's largest turbine, was safely delivered into the docks at Avonmouth at the beginning of November. The 13m x 5m rotor arrived from General Electric's Belfort facility in France, via Rotterdam into Avonmouth where it will be stored until installed at HPC. There are three LP rotors per turbine which are key components of the power production equipment in the Turbine Hall.

Once operational, the two turbines at HPC will produce low-carbon electricity for six million homes.

Visit [HPC's channel on YouTube](#) for insights into the latest progress on site. Films include a tour from inside Unit 1's reactor building and the next steps ahead of lifting the first unit's dome into place and a round-up of progress and key milestones from 2021.

Supplier Case Studies



Baylor's multi-million Pound regional supply chain spend

Baylor is a joint venture of Bouygues Travaux Publics and Laing O'Rourke, delivering the main civil engineering works at HPC worth over £2.8 billion, constructing the buildings that will house the two EPR (European Pressurised Reactor) nuclear reactors.

Hinkley Point C is making incredible progress on-site in terms of construction. But we are

also working hard to make sure the project benefits are accessible to people and businesses across the South West and the rest of the UK. The benefits range from increasing local employment and creating a sustainable regional supply chain, to investing in new training facilities and the community.

To date, Bylor have spent £16.56m in the local Somerset area and £241.57m in the South-West. Bylor have worked hard to ensure the local and regional supply chain benefits from construction of the Hinkley Point C Project.

Although some of our specialised products and services come from vendors in Europe, we have over 30 vendors in the local and regional area providing products and services as we build the two new EPR nuclear reactors. New figures show Hinkley Point C spending in the South-West has hit £3.2 billion – twice the initial target.

Bylor have employed over 300 apprentices across a variety of disciplines, some of whom have now completed their apprenticeship and progressed to Supervisor and Management roles on site. Bylor collaborated with Bridgwater and Taunton College to make the new roles as accessible as possible to local people.



Bylor apprenticeships give people a chance to learn new skills to start careers with the project, even if they don't have previous experience. Bylor will continue to work closely with local and regional vendors to ensure investment in the local communities surrounding Hinkley Point C.

New study confirms the low carbon credentials for Hinkley Point C and Sizewell C power stations

New analysis has confirmed that CO₂ emissions from the electricity generated by Britain's newest nuclear power stations will be even lower than wind and solar power. All three technologies will be essential in helping Britain achieve net zero carbon emissions.

Like renewables, nuclear power is 'zero-carbon' at the point of generation but, as with all electricity generation, CO₂ is released during construction, operation, and decommissioning. A detailed and independently verified study into lifetime emissions was carried out for EDF by environmental specialists Ricardo Energy & Environment. Known as a Lifecycle Carbon Assessment (LCA), the study follows internationally agreed standards and is thought to be one of the most detailed ever undertaken for a nuclear power station.

It showed that emissions from generating electricity are likely to be around 5.5g CO₂e/kWh for both Hinkley Point C and Sizewell C.

By comparison, the Intergovernmental Panel on Climate Change's median estimate for

offshore wind is around 12g CO₂e eq /kWh and 48g CO₂e eq /kWh for large-scale solar energy. All are drastically lower than coal at 820g CO₂e eq /kWh and gas at 490g CO₂e eq /kWh.

Hinkley Point C will have lower lifecycle carbon emissions than wind and solar. All three technologies will be essential in helping Britain achieve net zero.

Visit
edfenergy.com/hpc
for more info

Carbon produced by different energy sources per kilowatt-hour of electricity generated, CO₂ eq



The carbon avoided by generating electricity from Hinkley Point C rather than from a gas-fuelled power station means that it will 'offset' its construction emissions within a few months of operation.
Source: Hinkley Point C emissions based on 2021 LCA estimate. Gas, offshore wind and solar emissions based on 2014 IPCC median estimates.



With Hinkley Point Cs construction well underway and Sizewell C moving towards final approval, the new nuclear power stations will supply reliable low carbon electricity to around 12 million homes – helping the UK to reach net-zero and meet the growing need for low carbon power which is expected to quadruple between now and 2050.

Humphrey Cadoux-Hudson, Managing Director for Sizewell C said: “This detailed study confirms the low carbon credentials of new nuclear at Hinkley Point and Sizewell as the most reliable low-carbon electricity source currently available. By replacing fossil fuel power with low carbon electricity which doesn’t depend on the weather, Hinkley Point C and Sizewell C will support the expansion of renewables in the UK and make a big contribution to lowering emissions to net zero.”



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