

HinkleyPointC

EDF Energy

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HINKLEY POINT C

DELIVERING SOCIAL AND ECONOMIC BENEFIT

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CHANGE IS IN *OUR POWER*





Hinkley Point C

2 X 1.6 GW EPR

- Construction began in Sept 2016
- Target for commissioning June 2027
- Adapted for UK regulations – a “UK EPR”



366km of pipework

7,500 rooms



387 pumps

35,000 lights

35,666 valves

106,000 mechanical supports

10,436k m of cables





Build and Repeat – The benefits of replication

A large, modular reactor.

- Unit 2 is being built, on average, 20-30% faster as lessons learned on Unit 1 are applied to Unit 2.
- Pre-fabrication and modularisation are playing a key role in driving productivity at HPC, where **Civils' pre-fabrication is now around 60%**.
- **Civils construction used 30% less labour to achieve 40% more work on the Unit 2 Dome lift.**



Above: Modularisation now includes whole pre-cast rooms,

4x Faster



Welding of stainless-steel pools
For Unit 2 a different welding technique has been used on large pools. On Unit 1 panels got too hot and work slowed. The new technique (SMAG) alleviates this.

40% Quicker



Unit 2 Polar Crane assembly
Improved logistics and tracking of components, plus greater assembly at ground level is enabling Unit 2's Polar Crane to be built 30% quicker

9-week Improvement



Staircase "mega lift" saved 70% of installation time and allowed concrete to be poured 9 weeks faster.

45% Quicker



Modular pool construction accelerated on Unit 2. Improved method included changes to the supply chain and increased ability to manufacture components at Site – reducing schedule risk.

2 Months Ahead



Liner ring 3 was installed two months ahead of schedule on Unit 2. The welding of the ring to the Unit 2 Dome was achieved 90 days faster than Unit 1.

More equipment installed



At the point of dome lift, 44 "nuclear" doors were installed in Unit 2 versus 28 on Unit 1. There was 30x the amount of steel fitted on U2 vs U1 at the point of dome lift.

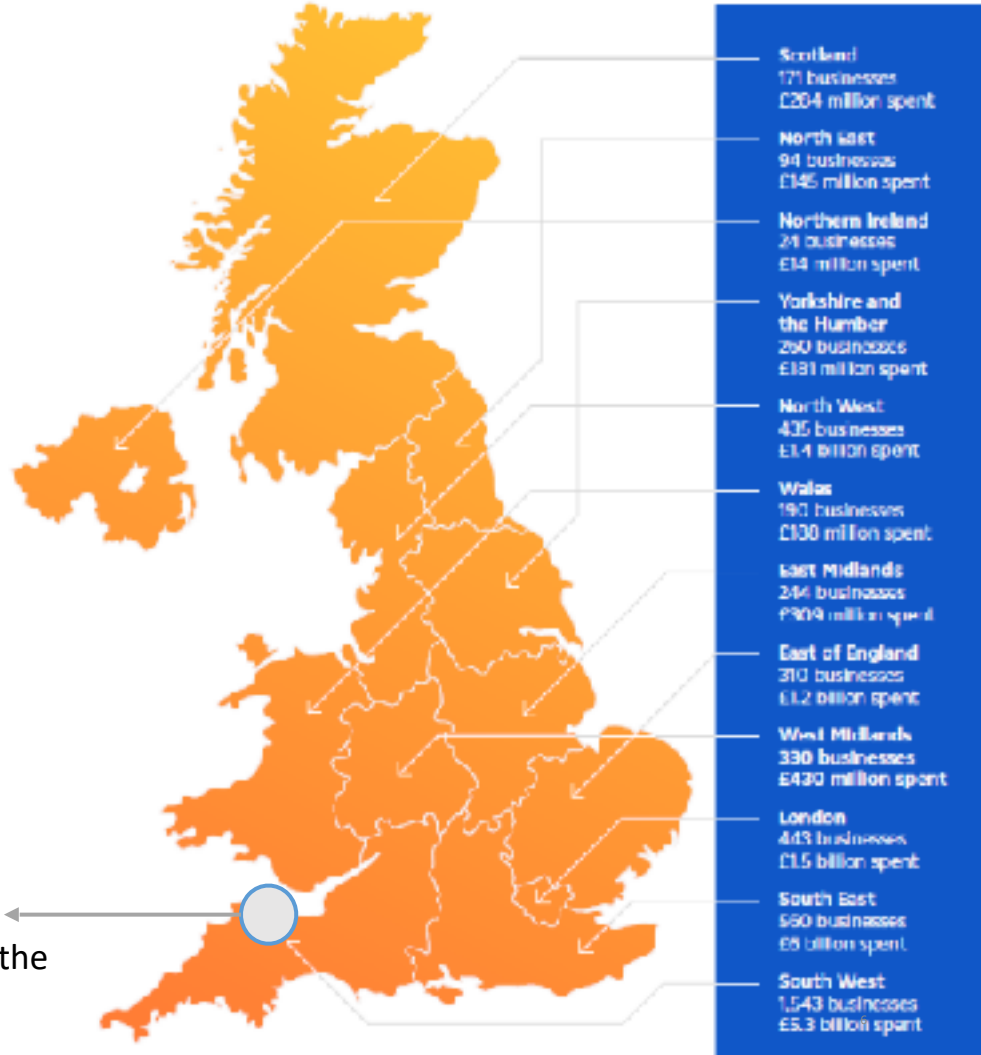
Supporting Britain's Industrial Strategy

- The project has helped British businesses into the supply chain for over a decade and has focussed on maximising local benefit.
- 64% of the value of the project going to British businesses with £5.4 billion already being spent with suppliers across with South West region.

<p>£13.3 billion</p> <p>↳ into the British Economy in Gross Value Added</p>	<p>26,000</p> <p>↳ direct and indirect jobs supported across Britain</p>
<p>4,600</p> <p>↳ British businesses within the supply chain</p>	<p>64%</p> <p>↳ of the value of Hinkley Point C is currently with British businesses</p>

For every £1 spent by the project, a further £2.29 is generated in wider economic value within the South West

£5.4 billion ← spent within the local region

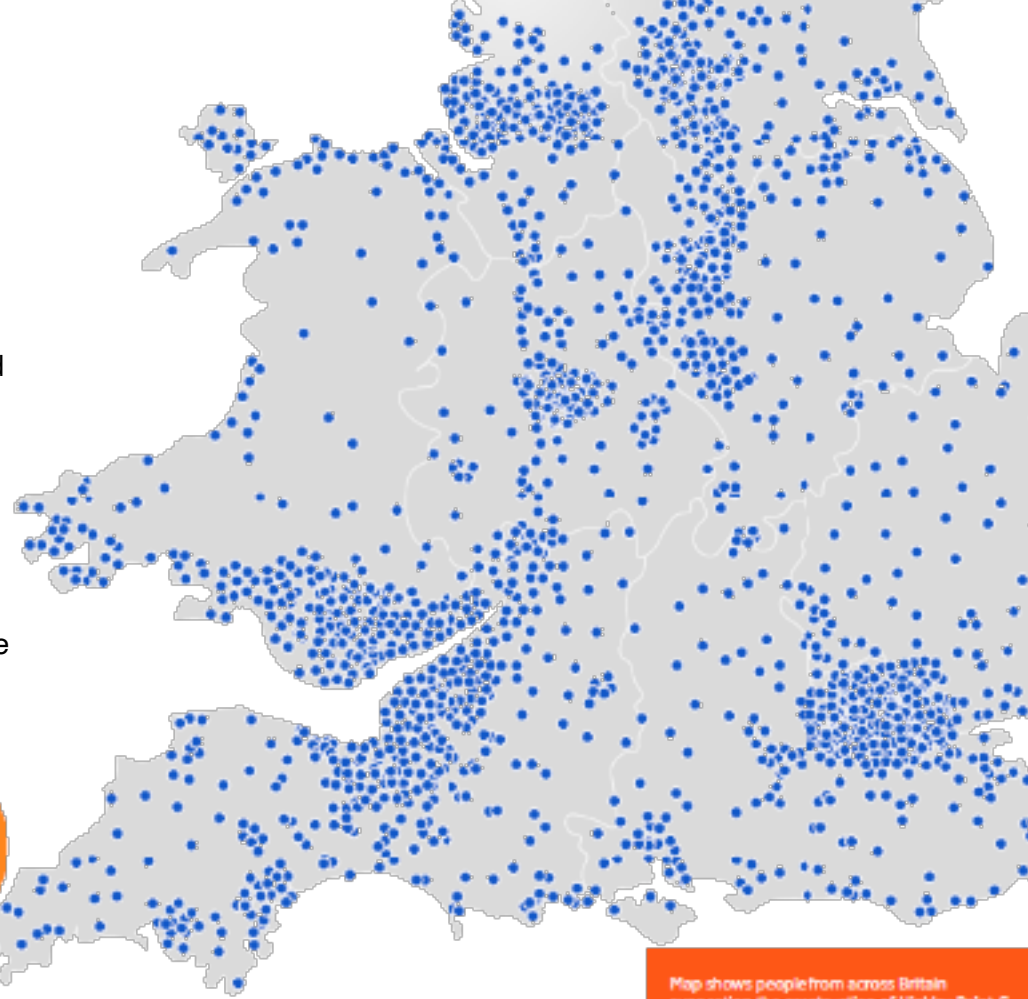


Driving Growth and Prosperity

- People from across Britain are benefitting from the higher-skilled, higher-paid jobs available at Hinkley Point C – boosting regional growth and productivity.
- The project is currently supporting over **26,000** direct and indirect jobs across Britain with
- **35%** of workers gaining employment from areas of recognised deprivation.
- **1,700 apprentices** trained with **70% from the local region**.
- Many of them also taking advantage of the training and upskilling opportunities provided at Hinkley Point C's training Centres of Excellence. These training opportunities are open to everyone, regardless of age, skill or background and can be applied to other industries.

26,000

↗ direct and indirect jobs supported across Britain



Map shows people from across Britain supporting the construction of Hinkley Point C

Key Skills for Energy Security - Centres of Excellence



Welding Centre of Excellence

The Welding Centre of Excellence in Bridgwater provides comprehensive training for the many welders needed to complete the fit-out of Hinkley Point C.



Electrical Centre of Excellence

To ensure a skilled workforce for the mechanical and electrical fit-out phase of Hinkley Point C, the Electrical Centre of Excellence, situated in Bridgwater's Somerset Energy Innovation Centre.



Mechanical Centre of Excellence

The newest of the centres, the Mechanical Centre of Excellence in Cannington, is developing the mechanical engineering skills needed for the fit-out of the power station.



19,500

people trained at Centres of Excellence and the National College for Nuclear

↘ Case study

Kester Ansah-Akrofi, 20
Gravesend

3 *For anyone
considering a degree
apprenticeship,
I can wholeheartedly
recommend it*

Growing up in London with a love of art and design, Kester is a Civil Engineering Degree Apprentice and is combining hands-on learning from mentors at the Hinkley Point C site whilst studying for his engineering degree at the University of Exeter.

The training is allowing him to gain first-hand experience whilst avoiding the significant cost of a traditional degree.

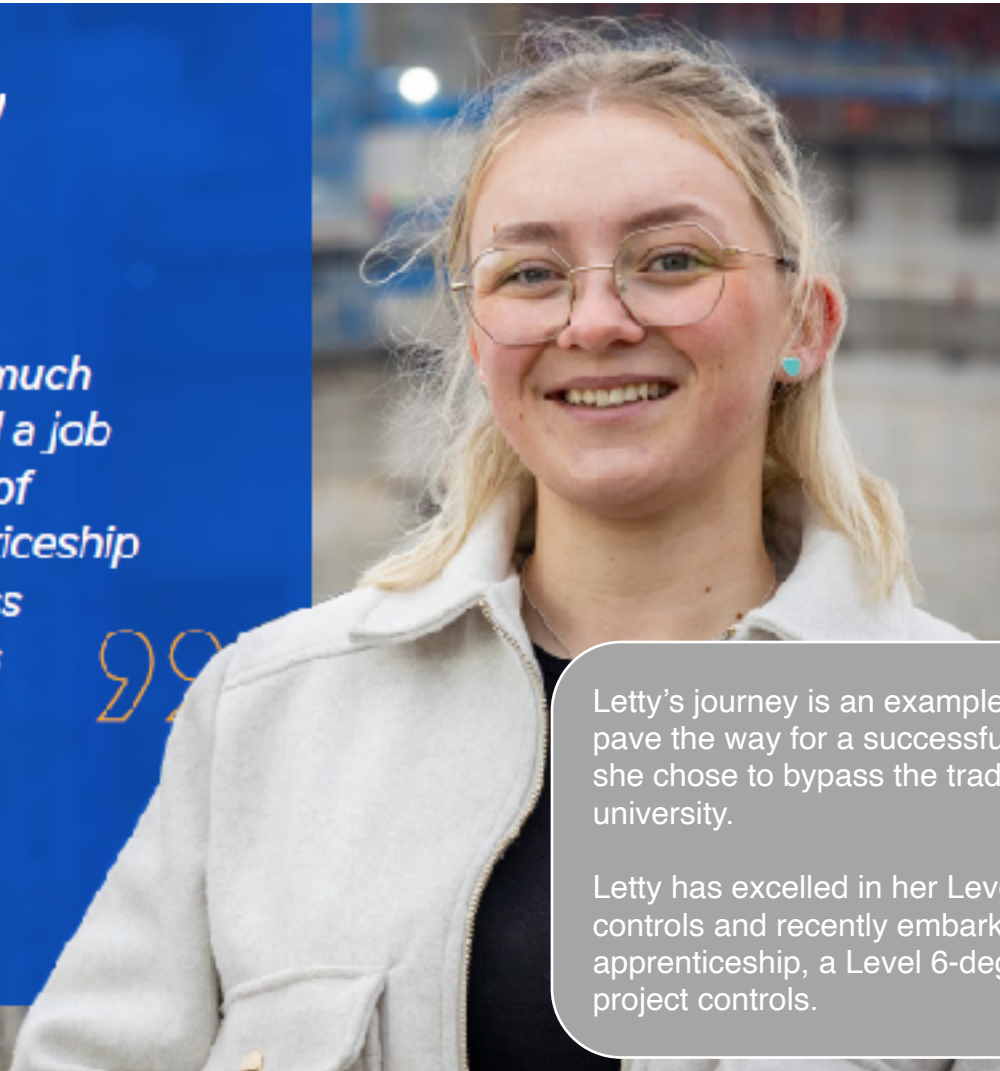


Case study

Letty Smith, 19
Wedmore

I'm pretty much guaranteed a job at the end of my apprenticeship with endless possibilities

99%

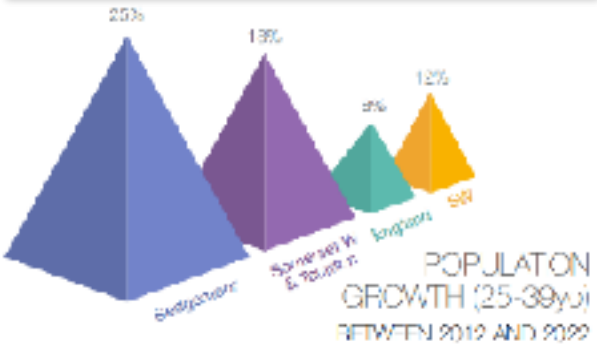


Letty's journey is an example of how apprenticeships can pave the way for a successful and fulfilling career. At 16, she chose to bypass the traditional route of sixth form and university.

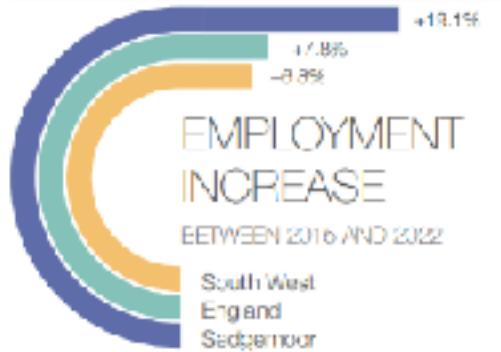
Letty has excelled in her Level 3 apprenticeship in project controls and recently embarked on a second apprenticeship, a Level 6-degree apprenticeship, also in project controls.

Outcomes – Positive Economic Improvement in the Locality

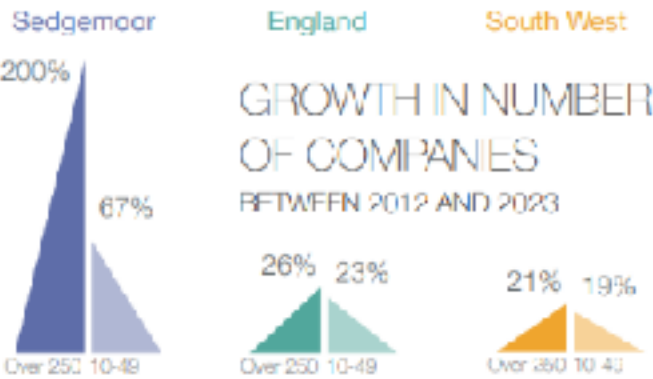
Growth in Lower Age



Employment



Economic Boost



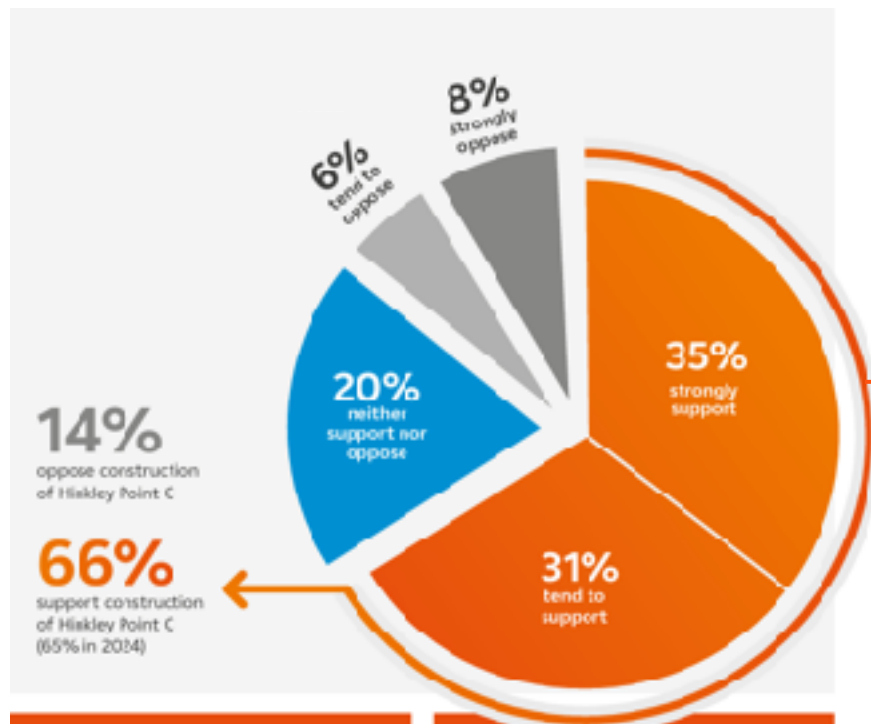
x10

→ The district area is seeing a growth in the number of medium sized companies that is ten times higher than anywhere else in the South West

10% higher

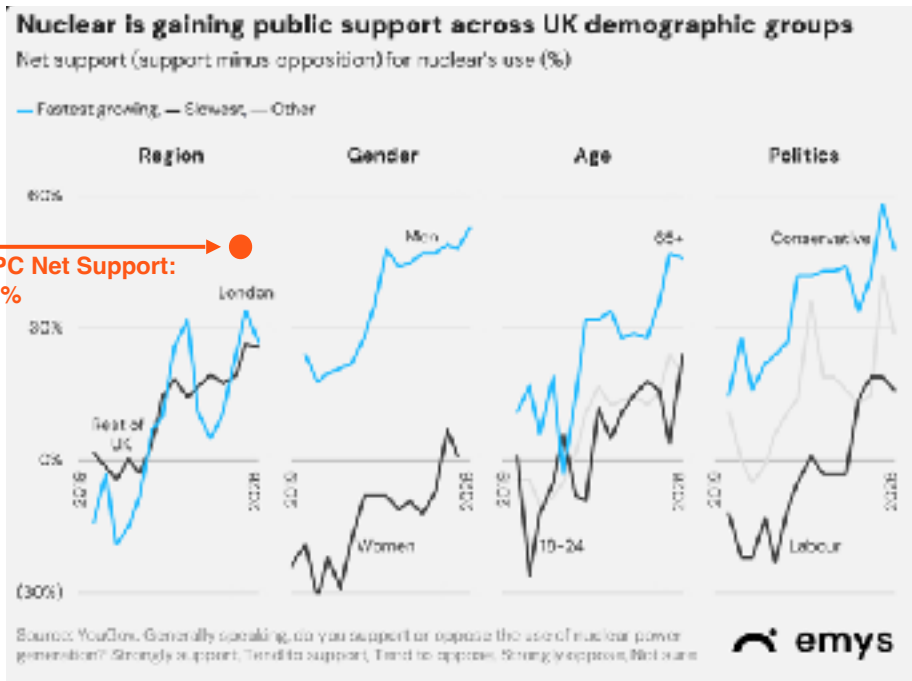
→ The local town of Bridgwater is seeing productivity levels 10% higher than surrounding towns

Building Local Support



89% of local people agree that the project is creating new jobs and training opportunities

80% of local people agree that the project is bolstering the country's energy security



Experience and Learning



- 1. Early engagement in supply chain and skills delivery is critical.**
- 2. Partnerships and collaboration are essential.**
- 3. Perceptions are important but challenging to overcome.**
- 4. Leadership and bravery deliver results.**

Thank You