

Plugged in

March 2015

to nuclear new build at Hinkley Point C



Great chemistry: Inspiring the next generation of engineers

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Notes from Nigel

Preparation continues at HPC.



In 2015, we want to get the site and local infrastructure ready for construction of HPC. During this period we will road test all our processes and procedures to ensure that we have a laser focus on safety and quality when main construction begins.

But it is important to note that while we are maintaining our levels of activity, we will not be ramping up significantly in the short term.

Our Phase 2 Site Preparation Works and DCO commencement works are progressing well, including work on installing a culvert for the Holford Stream, preliminary excavations, the north west bund development and the preparations for the on-site concrete batching plant. If we are able to make a good start on the jetty then this, together with our progress on

the Cannington bypass, ensures our two main transport mitigation projects will be completed before major construction activities commence.

Other associated development packages are also progressing well, with road improvement schemes such as the new roundabout at Washford Cross and the works on the junction in the centre of Bridgwater well underway.

As usual we've also been throwing ourselves into the community and education arenas. Take a look inside to find out more. Page 8 illustrates our education plans for the year ahead and page 12 shows how we are supporting the local community.

We also continue to work with local suppliers to maximise opportunities for local business, and our employment team has impressive statistics in placing local people in HPC roles. If you require any information on our supply chain or Hinkley jobs, use the contact details below.

Nigel Cann
Site Construction Director
Hinkley Point C

News in brief



Hinkley jobs talent pool



New year, new Job. Register with the Hinkley jobs service in readiness for the opportunities that will arise once the Final Investment Decision has been made. To find out more email hinkley-jobs@edf-energy.com or call us on 01278 436132.

Thumbs up for first HPC public tours

Stogursey, Otterhampton and Cannington Parish Council members recently took part in the first public tours to site. For more information and to book a visit contact **EDF Energy Visitor Centre, Angel Place Bridgwater Shopping Centre, 0800 096 9650.**

Landscape development fund



Looking to improve your landscape with spring around the corner? Look no further, the Quantock Hills AONB Service is currently running the Greater Quantock Landscape Development Fund providing grants of up to £20,000. It's open to local communities, farmers, landowners and individuals. To apply go to www.quantockhills.com or call the Quantock Hills Service on 01823 451884.

Getting in touch with us

- Visit www.edfenergy.com/hinkleypointc
- Email hinkley-enquiries@edf-energy.com
- Call us 0800 096 9650
- Visit us EDF Energy Visitor Centre, Angel Place Shopping Centre, Bridgwater TA6 3TQ
- Tweet us @edfehinkleyc
- Billing enquiries and customer services 0800 096 9000

Hinkley Point C site update

Preparation activity has stepped up a gear since the October edition of *Plugged in*, with an increase in both people and plant machinery working on the site.



Concrete preparations

In December last year, 18 months of hard work and planning came together when a trial pour of concrete took place at HPC Site. Three million tonnes of concrete will be used to construct the future power station – 75 times more than was used to build the Millennium Stadium in Cardiff, so it is important to get this right. The special trial pour, in a small area of site, confirmed the team's ability to meet the high specifications demanded. It covered everything from the origin of the materials, to the exact mix and consistency and ensured different contractors' procedures work in harmony. In the future, a dedicated concrete making plant will be built in the north east of the site.

Holford Culvert

In the south of the site, work is progressing well on a 700m long culvert, which will divert Holford stream through a concrete box, allowing storage of water during heavy rainfall. It must be completed in advance of main construction activity, as soil from the reactor excavations are destined to be placed into the valley during the build. The culvert comprises 597 precast concrete sections each measuring 3.2m wide by 3.35m high.

Above Holford Culvert – laying of a concrete culvert section

People and plant

The team continues to grow at site, with key contractor Kier BAM increasing its workforce as preparations advance. On average 500 people currently work at the site each day – with 4,900 breakfasts and lunches served in January alone, by local firm Somerset Larder. Plant machinery continues to arrive with the largest of excavators arriving on nine separate lorry loads. At present there are around 160 pieces of plant on site.

Looking ahead

In the future, key priorities include work on a 500m sea jetty that will bring in construction materials and reduce HGV road journeys to site.

Already a base platform has been created for a concrete batching plant and work is beginning on the plant itself. Another key area of focus will be creating level platforms across the site for buildings and the other facilities necessary for construction.

Hinkley Point C bird's eye view

An aerial overview of the site.



- 1 Planned 500m jetty construction
- 2 Concrete batching plant
- 3 Water management zones
- 4 700m long Holford Stream Culvert
- 5 Southern roundabout
- 6 Concrete mock up
- 7 Northern roundabout

Investing in our road network

Major road improvements are underway at Washford Cross in West Somerset, in Cannington and in Bridgwater.

At Washford Cross, a new roundabout is being installed that will make this junction of the A39 safer.

Good progress is being made on the bypass in Cannington. When complete, it will take Hinkley Point traffic around the village. To keep up to date with the bypass activity visit www.edfenergy.com/hinkleypointc where you can view a webcam broadcasting the progress we're making on the new road.

As planned, the upgrade of Taunton Road and Broadway Junction in Bridgwater started early in the new year. All the traffic lights will be upgraded, the junctions will be adjusted and crossing points for cyclists and pedestrians will be improved. The new lights will interact with

other lights in the town improving drivers' journeys through Bridgwater.

New electronic motorway-style messaging boards are being installed in seven strategic locations to help keep motorists better informed.

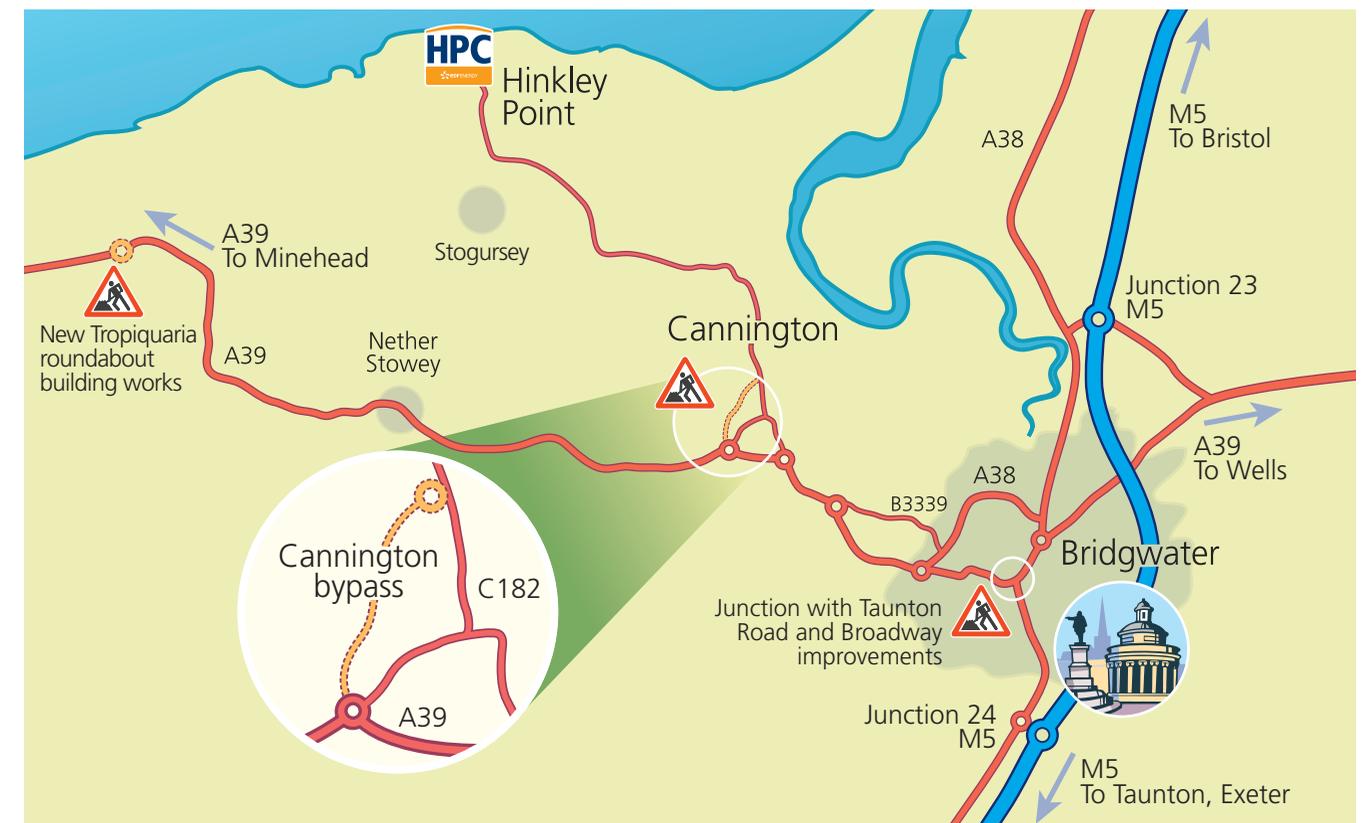
As part of Somerset County Council's highway plans our works form part of a £16 million package of road improvement schemes. The improvements have all been carefully planned with local councils to try to minimise inconvenience as much as possible.

More information about these road improvements and the Hinkley Point C project is available at EDF Energy's Visitor Centre in

Angel Place Shopping Centre, Bridgwater, open between 9.30am and 4pm Monday to Friday and 9.30am to 1pm on Saturdays.

Cllr David Hall, Cabinet Member for Business, Inward Investment and Policy at Somerset County Council, said, "Significant investment is planned for all the designated routes to Hinkley Point to ensure traffic keeps flowing as efficiently as possible.

"We are working closely with EDF Energy and other partners to plan for an increase in the amount of traffic over the next decade, and the works that are underway this year are part of a wider package that is being intricately planned for this part of Somerset."



Powering the future

Hybrid-electric double decker buses pave the way for a cleaner, greener Somerset.

Innovation and sustainability are core elements of the HPC project – values that are not lost on our growing fleet of hybrid electric buses serving the project’s park and ride site on a daily basis.

Crosville Motor Services, a local company from Weston-super-Mare who operate the service, now have three hybrid-electric double decker buses, helping to move hundreds of passengers a day while reducing both noise and carbon emissions. Our park and ride service is also ensuring that we limit the amount of cars travelling to Hinkley Point C.

Based on the same model as the new London Routemasters introduced in 2013, the cutting edge diesel-electric double-deckers made by Wrightbus can seat 65 people whilst reducing fuel use by some 30%. By lowering both the overall number of vehicle journeys to site and reducing fuel consumption and noise, they are having a tangible impact on the areas in which they operate.

“We introduced the buses at the end of last year,” explained Jonathan Jones-Pratt, owner and managing director of Crosville Motor Services. “As a part of the Hinkley Point C team, ensuring that we work to reduce our environmental impact and invest in the future is vital. As the project and workforce expands, we’ll follow suit with an increasing number of these quieter, low-carbon buses in our fleet.”



One of Crosville Motor Services’ electric double decker buses waiting to transport HPC workers from J24 park and ride to Hinkley Point C

Top Trumps

- First introduced at HPC: November 2014
- Top speed: 55mph
- Power: 185bhp
- Torque: 700Nm
- Battery: Liquid Cooled Valence C26650 Li-ion power cell
- Fuel saving: 30%

Pier eases pressure

Getting ship shape for tide defying jetty construction at Hinkley Point C.

At Hinkley Point C, the planned construction of a 500 metre temporary jetty into the Bristol Channel will deliver over 80% of the aggregate material required for the new power station, minimising the number of HGVs on the roads.

“When operational the jetty will remove the need for over 120,000 HGVs” explains Glyn Wheeler, the Project Manager for the jetty. Glyn is also responsible for managing the development of the nearby Combwich Wharf. His extensive project management experience includes developing a large quayside in the North East of England and establishing a dry dock in South Wales.

Time and tide wait for no one, and together they are two of the biggest challenges for Glyn and his jetty team. As well as designing a facility that can be used in waters that have the second largest tidal range in the

world, the project also will need to keep to the overall programme’s tight timetable.

Working at sea is always challenging but the team who will be building the jetty are used to working on offshore oil rigs so it’s unusual for them to be able to see land.

“The jetty is vital as an enabling feature to the success of Hinkley Point C. It’s a fundamental part of our sustainability commitment as bringing in building materials by sea minimises the impact of construction vehicles on the roads – each vessel unloaded saves 250 lorry loads,” added Glyn.

The design of the 500 metre long 11 metre wide steel and concrete structure was optimised last year after the latest seabed and coastal investigations. It will be positioned so that it functions with virtually no impact on the area’s marine



Above Glyn Wheeler, jetty Project Manager
Below An artist’s impression of the jetty

environment. It’s expected to operate for seven years and then, again in line with HPC’s sustainability commitments, it will be removed and recycled.



Jetty fact file

- Designed to be built and work effectively with the estuary’s 11 metre tidal range
- Will need more than 4,000 tonnes of concrete and around 2,500 tonnes of steel for its construction
- Removes the need for 120,000 HGVs from the roads
- Will be part-built by specialist floating piling rigs
- Includes a conveyor to unload stone and sand

Great chemistry!

The Hinkley Point C Inspire Programme is busy preparing the young people of Somerset for the opportunities that will arrive with the construction and operation of the new power station.

Through the programme, Somerset youngsters are gaining first-hand experience of engineering related challenges, an appreciation of the nuclear industry and building a real understanding of the interesting careers that are available through studying science, technology, engineering and mathematics (STEM).

We caught up with Tom Thayer from the Inspire Education Programme just after an exciting eye popping ChemLabS event attended by nine local Somerset schools to find out what's been delivered in 2014 and the aspirations for the programme during 2015.

What have been the highlights in 2014?

We're thrilled to say that Inspire is already making quite an impact across Somerset. Each year more and more pupils are benefitting from the activities that focus on building both STEM skills and awareness of the HPC project and its related careers.

We're obviously very proud of the Employability awards and as they and the rest of Inspire have grown, we have been able to mobilise lots of fantastic staff to work with young people within schools. Nikki Doughty, Bridgwater College Academy deputy head of, told us how her students love working to achieve the awards, "They're always carrying their booklets, asking staff for signatures to confirm what they've done and looking for ways to complete the six sections to prove they have the skills employers need."

In December we were delighted to achieve national accreditation by the NEF Innovation Institute under their Certificate of Enterprise and Employability programme. It means our programme has been

What's coming up in 2015...

- Year 9 and Year 10 STEM days in partnership with STEM works
- The Year 9 Low Carbon Challenge Day and Residential at Exeter University
- Bristol ChemLabS primary experiences
- Women in to Construction and Engineering events
- HPC Inspire will be at the Royal Bath and West Show



Above Somerset pupils at the ChemLabS primary science event at Strode College
Left Dr Alison Rivett, of Bristol ChemLabS delivering an extraordinary STEM lecture!

benchmarked against national standards and is a validation of its high quality delivery standards.

What's the legacy of Inspire for the future?

We hope to reach as many young people across Somerset as possible, to explore with them the wide ranging career opportunities that will arise with the construction and future operation of HPC. Our aim is to help young people think about their future careers and what subjects they will need to choose to achieve their aspirations. We have a strong foundation of activities to help students and in my opinion, there has never been a better time to be a young person in Somerset!

How about visiting PLOTR, an incredible Careers Information and Guidance website that we support – www.plotr.co.uk – or popping into EDF Energy's Visitor Centre at Angel Place, Bridgwater?

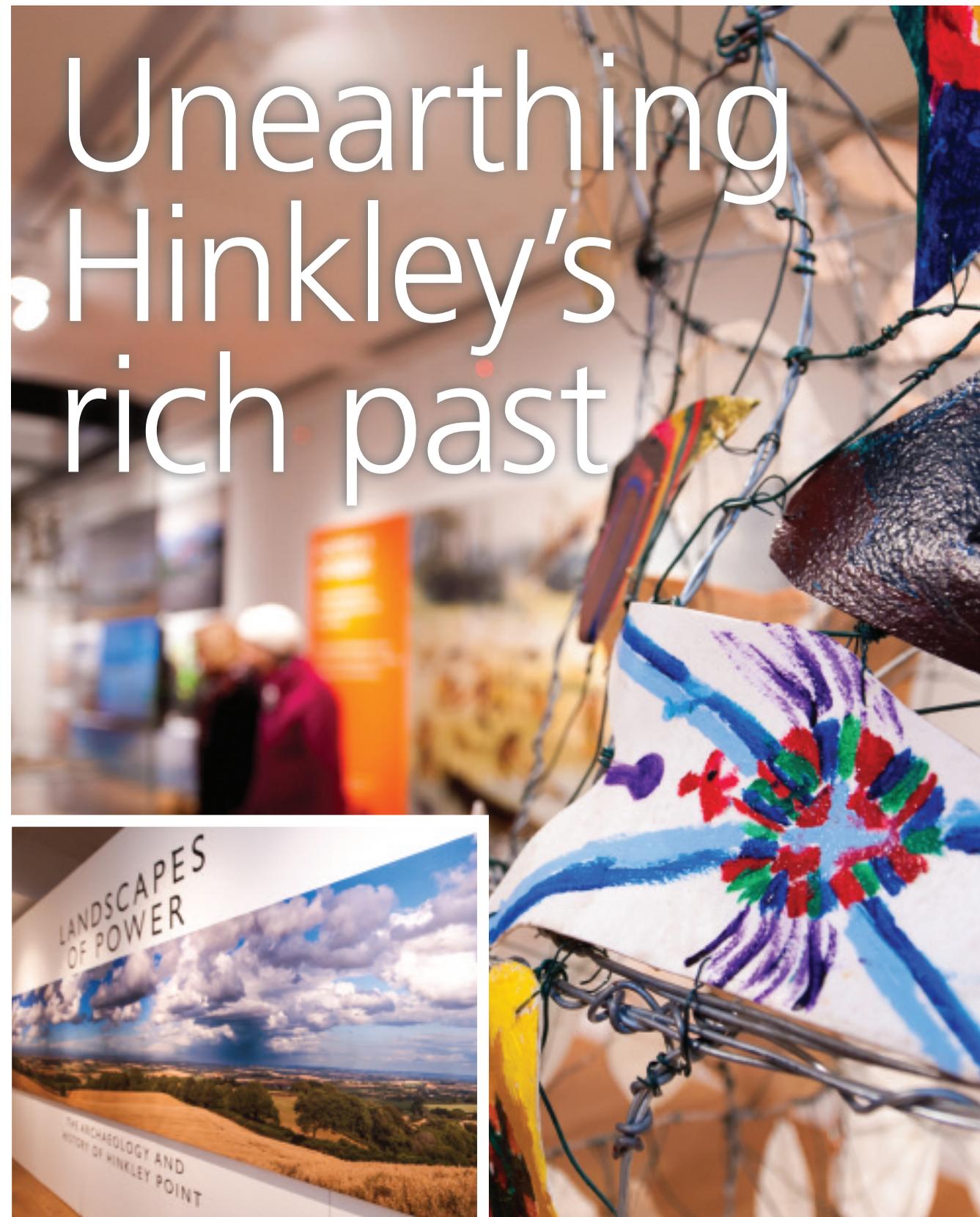
For more information, and to explore ways of getting involved, contact the education team inspireeducation@edfenergy.com

Over
70,000
pupil
engagements in
almost four
years

450
STEM
Ambassador
interactions with
pupils in
2014

Over
170
schools involved
across Somerset
and beyond

Over
23,000
student
engagements
in 2014



Unearthing Hinkley's rich past



Who would have thought that building a new nuclear power station could have resulted in one of the largest ever archaeological projects undertaken in the West Country, revealing fascinating insights into Somerset's rich past.

The discoveries and story of the changing landscapes near Hinkley Point, shaped and inhabited by generations over thousands of years from the Neolithic period through to the Dark Ages, have been brought to life in an exhibition at the Museum of Somerset called: "Landscapes of Power: the Archaeology and History of Hinkley Point".

Bob Croft, Historic Environment Manager for the South West Heritage Trust, said: "This project has provided us with a rare opportunity to delve into the history of a whole landscape at Hinkley Point. Any chance to get under Britain's surface will uncover a mixture of evidence on how those before us lived, worked and died, but this project has unearthed incredible amounts of history".

What did the archaeology excavations uncover about Somerset's rich past?

Cotswold Archaeology provided the team of experts who carefully explored the main Hinkley Point site and the Cannington bypass between 2012 and 2015.

Highlights included an unexpected discovery of a Dark Ages Christian cemetery dating from the 7th Century c. 600-700 AD. Further detailed scientific research will be carried out and the remains will be curated by the South West Heritage Trust.

Glimpses of everyday life were revealed by finds of pottery, bronze bronze bracelets, brooches and iron hobnails from boots.

Other finds include the remains of a Roman period stone building used for drying cereal crops providing evidence of people living on and farming the land during the Iron Age and Roman periods.

The exhibition is open from 10am to 5pm (last entry 4.30pm) from Tuesday to Saturday until 11 April. Admission is free. For further details see the Museum of Somerset www.museumofsomerset.org.uk or call **01823 255088**.



Above Bob Croft talking to pupils from Shapwick School who visited the exhibition recently

Left A view from inside the Landscapes of Power exhibition

Below A Roman bronze brooch or fibula dating from the third century AD

A number of flint tools called microliths dating back 10,000 years from the Neolithic and Bronze Age periods provide evidence of hunter gatherers.

The first evidence for an early Saxon-style building discovered at Hinkley is known as a 'grubenhäus' or 'sunken floored building' and would have been used as a workshop or store.

David Eccles, Head of Communications for Hinkley Point C said "We are pleased that these fascinating insights into the history of Hinkley Point can be shared with the local community because we are simply the latest generation to live on this historic landscape."



Tom Mayberry, Chief Executive of the South West Heritage Trust said, "The exhibition at the Museum of Somerset reveals the history of the Hinkley Point landscape in fascinating detail, and the newly-commissioned paintings by Victor Ambrus of *Time Team* bring the archaeological evidence vividly to life."

The story of the changing landscape around Hinkley has also been told through an outreach project aimed at schools and residents across Somerset. Further information can be seen at www.archaeologyathinkleypoint.wordpress.com and in the exhibition at the Museum of Somerset. The archaeological work and outreach programme is now managed and supervised by the South West Heritage Trust for Somerset County Council.

Benefit of CIM fund is rippling out

Improving local people's lives and making a difference in the community.

EDF Energy has established a £20 million Community Impact Mitigation (CIM) fund which aims to support local community projects that indirectly ease the impact of HPC on those affected. The first tranche of this money is now available and various organisations have already submitted bids.

The Somerset Youth and Community Sailing Association (SYCSA) applied for funds to purchase four new Pico dinghies to provide additional sailing opportunities for young people, schools, clubs and adults at Durleigh reservoir near Bridgwater.

Pete Branson, spokesman for the SYCSA, said, "Sailing is an exciting, exhilarating, healthy sport, which I believe should be available to all youngsters, no matter what their circumstances. Through our free taster sessions, these new boats will ensure

that any youngster, who wants to give it a go, has the chance to try sailing. The contribution from the community fund is very much appreciated."

Porlock Parish Council applied for funding to help set up a website to publicise and promote the Porlock Bay Shellfish project – a social enterprise farming oysters and mussels on the seabed in Porlock. The project will generate new jobs, and any profit made will be invested back into the local community.

Roger Hall, spokesman for the project said, "The shellfish project will generate new jobs and has the potential to become a unique visitor attraction for Porlock. The website will help us to attract visitors and make links with other businesses to help build a local supply chain. We're very grateful for the financial support and can't wait to launch the new website."



Tropiquaria Zoo have been awarded funding to relocate its gibbon, tamarin and lemur enclosures. The zoo highlighted that the animals needed to be moved away from the site where a new roundabout is being built to improve safety at the junction in advance of a park and ride site serving Hinkley Point C.

To safely move the enclosures, the zoo needed to remove the play area and new play equipment will be funded to replace the old, giving the zoo a new attraction to offer visitors.

Chris Moiser, managing director of Tropiquaria Zoo, said, "We are delighted to have been awarded the money and are constructing a series of replacement cages that will be great new homes for the animals, and will also add to the visitor experience here at Tropiquaria."

For full details on how to apply to the fund please visit: www.westsomersetonline.gov.uk/CIM



Above Travis and Weston, two of the relocated lemurs
Left Young people from Somerset setting sail at Durleigh reservoir

New website for landlords and prospective tenants



www.somersethomelet.co.uk is an innovative and exciting new online portal for landlords to advertise their private sector properties to the local market but also directly to the workforce of Hinkley Point C.

The website has been developed in partnership with Sedgemoor District Council, Taunton Deane Borough Council, West Somerset Council, North Somerset Council and EDF Energy, and is the first website of its kind in Somerset.

If you have a property or room to let then register now. It's quick and simple! More information is always available from our accommodation office by emailing hinkley-accommodation@edf-energy.com or calling 0800 096 7360.

Hinkley Jobs Training first for steelfixing

A unique HPC-inspired apprenticeship aims to head off a forecasted shortage of skilled specialist construction workers.



Fifteen initial apprentices are pioneering a new programme for steelfixers developed by Laing O'Rourke and Bridgwater College.

Their 18-month course leads to a Level 2 diploma in steelfixing, and potentially a career in one of the most in-demand skills in civil engineering. Steelfixing involves positioning and securing the key structural elements used in reinforced concrete.

The apprentices are all from the South West, and while it's expected they'll be able to use their new skills locally at HPC, they'll be qualified to work at any of the large-scale infrastructure projects under way, or proposed, in the UK and abroad – all of which will have a huge requirement for skilled people.

This projected demand prompted Laing O'Rourke, part of the BYLOR joint venture, to develop the first UK Apprenticeship for steelfixers with support from Bridgwater College.

Andy Berry, Vice Principal of Bridgwater College, said, "Our course is the first in the UK to embrace the new skills and

Laing O'Rourke's First Fifteen – apprentice steelworkers all smiles developing their skills

techniques, such as digital engineering and off-site manufacturing."

Caroline Blackman, Director of Sustainability & Corporate Responsibility at Laing O'Rourke, said, "The EOS (Employer Ownership of Skills) funding has supported this initiative from the outset and should be applauded."

Two of the apprentices are already employed at Hinkley on preparatory works.

Ben Lewis: "I didn't know what steelfixing was – I'd never heard of it before. The long-term prospects are good. I'm always aiming to progress as high as I can. It would be nice to stay on this job for the long term." **Garth Young:** "I was working in a factory when I saw the course advertised in the local paper. Previously I'd been a plasterer. I'm 29 so I qualify as an adult apprentice. It's going well – it's a good course."



County Council and the Highways Agency. We appreciate your patience should you find yourself behind one of our large loads steadily progressing through Somerset.

I have some accommodation to let. How and what do I need to do to get onto EDF Energy's accommodation supplier list?

Can you provide more information on Abnormal Indivisible Loads and their routes and frequency?

We carefully plan all the deliveries that come to Hinkley Point C but exceptionally large loads (ALLs) need intricate planning that involves experts going out in advance, measuring every tight turn or pinch point in the road network to ensure there are no surprises. We write to people whose vehicles may normally be parked en route and we get support from the Police, Somerset

There are two ways to do this. If you have web access, then you can register online in three easy steps via the new **Somerset Homelet** online portal www.somersethomelet.co.uk. **Step 1.** Access the website. From the homepage click on the room/property to let tab on the left hand side. **Step 2.** Click on first time landlords register tab. **Step 3.** Scroll down the page to locate the register online section, click on the register here button, then click enter. Confirm acceptance of the terms and conditions then click on the submit button and away you go.

Alternatively if you prefer to speak to someone in our accommodation office regarding registering your property, then call **0800 096 7360** or email hinkley-accommodation@edf-energy.com.

Our Top Tweets...

Follow us @edfehinkleyc

EDF Energy HinkleyC @edfehinkleyc		TWEETS	PHOTOS/VIDEOS	FOLLOWING	FOLLOWERS	More
		461	18	53	880	
	EDF Energy HinkleyC @edfehinkleyc · Jan 19	Great to talk about #HinkleyC job opportunities at the @SedgemoorDC employment advice workshop today				
	EDF Energy HinkleyC @edfehinkleyc · Jan 14	Good progress is being made on our concrete culverting in Holford Valley at the #HinkleyC site				
	EDF Energy HinkleyC @edfehinkleyc · Jan 13	Our #hpcinspire education programme has achieved CEE accreditation from the @nefinnovation!				
	EDF Energy HinkleyC @edfehinkleyc · Jan 14	Don't miss #HinkleyC archaeological discoveries exhibition @somersetmuseum from 17 Jan - admission is free!				



Photography competition winner



Photograph taken by Paul Silvers of the heavy rime, Seven Sisters on the top of Cothelstone Hill, Quantocks. Taken with an Olympus E500 SLR camera.

Are you a budding photographer or a photography enthusiast?

Share your photographs taken in and around Somerset with us and each edition we will publish our favourite. Send your high resolution photo to: hinkley-enquiries@edf-energy.com with your name and details of where the photograph was taken and what camera you used to capture the shot. The winner will receive a £50 photography voucher.

Terms and conditions apply:

<http://hinkleypoint.edfenergyconsultation.info/newsroom-faqs/newsletters/>

