

Community Update

Our plans for new nuclear power at Oldbury

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Oldbury representatives view Anglesey site



Since our last update, members of Oldbury Parish Council's New Nuclear Build (NNB) Committee have visited Horizon's lead site Wylfa Newydd on a fact-finding trip.

The visit included attending a meeting of the Wylfa Newydd Project Liaison Group (PLG) and a tour of the Anglesey site. Oldbury's representatives were also able to meet Isle of Anglesey County Council members and other local stakeholders, as well as Horizon staff based at its recently-extended site offices.

Leon Flexman, Corporate Affairs Director at Horizon, said: "We wanted Oldbury's NNB committee to see first-hand how we have been working in close partnership with local communities as we develop our plans for Wylfa.

"It's an approach we will use at Oldbury

in the years ahead as we work to minimise the impact of construction and maximise the long-term benefits for local communities and the local economy."

Keith Sullivan, Chair of Oldbury PC and its NNB committee, added: "It was a very informative trip and there was not a moment when we were not learning something new.

"We were impressed with the enthusiasm shown by Horizon's staff and the local people. The integration of Horizon into the local community clearly shows the success the approach is having and is a lesson we can all learn from."

Welcome

TO THE LATEST ISSUE OF OUR NEWSLETTER

Our new nuclear build (NNB) projects continue to make significant leaps forward.

Hitachi-GE's UK Advanced Boiling Water Reactor (UK ABWR), our chosen reactor technology, received approval from the UK regulators, successfully concluding the Generic Design Assessment, a rigorous review of the reactor's design and safety features.

More recently, we welcomed the Government's commitment to consider direct investment in our lead site, Wylfa Newydd. This move is a strong statement of support for Horizon and for the future role of nuclear power in the UK.

A further milestone was achieved with our submission of a Development Consent Order for Wylfa Newydd. This is effectively the project's planning application and builds on a significant level of public consultation.

We were able to explain how we built community support for our Wylfa proposals when we hosted Oldbury Parish Council at our Anglesey site (see left). There were questions about the site raising that would be required at Oldbury in the future and we have set out our early thinking on this on page 3.

As this newsletter goes to print, we are preparing to submit our site into the Government's updated National Policy Statement on NNB. See page 5 for further details.

Duncan Hawthorne
Chief Executive Officer



Sponsorship

Proud to sponsor young engineers

Horizon supported aspiring engineers from the Castle School, Thornbury, to take part in the 2018 F1 in Schools Challenge – a global educational programme that raises awareness of STEM (Science Technology, Engineering and Maths) subjects and Formula One racing.

The Blue Rockets Racing team from year 11, who were entering the competition for the second year, designed and built a compressed air powered car using 3D Computer Aided Design and Manufacture. The team also developed a business plan, engineering portfolio, sponsorship programme and pit display as part of the project, as well as mentoring a year 10 team entering for the first time.

“Our sponsors’ support helped us develop a more sophisticated car design, racetrack and timing system to improve race times, both for us and future Castle School teams,” said team leader, pupil, Joshua Ocone. “Although we performed well at



Blue Rockets Racing team members Alistair, Dan and Joshua with a model of their F1 car entry (team member Ben not pictured)

the regional competition and won the award for best sponsorship programme, we missed out on a spot in the national competition once again. However, we remain focused and have already decided to enter next year.” Claire Loveday, Horizon

Communications Manager, added: “We were very impressed with the Blue Rockets’ enthusiasm and professionalism. The team showed real championship spirit and we’re very proud to have been part of their F1 journey.”

Property update

Putting our best foot forward



Horizon’s Simon Kingsley and SGC’s Public Rights of Way Officer, Lindsay Saunders, review the upgraded pathways

New gates and stiles, supplied by South Gloucestershire Council (SGC), have been installed on land Horizon owns near Oldbury as part of recent improvements, which also includes traditional hedge laying.

The improvements ensure that the footpaths remain easily accessible, while the installation of the kissing gates means that livestock are contained safely.

Horizon has also secured a time extension for use of its compound by Jobes Green Farmhouse. Simon Kingsley, Horizon’s Head of Property, commented: “Keeping the compound in situ makes sense as it

means we won’t be inconveniencing local people by removing the hard-standing material now just to replace it in the years to come. While we have no immediate plans to utilise the compound, any future use would be strictly limited to supporting site and environmental studies ahead of developing a construction programme for Oldbury.”

Further restoration work is also now underway at Jobes Green Farmhouse and Dairy Farmhouse, following adjustments to ensure our refurbishment of these Grade II Listed properties preserves their heritage features effectively.

Specialist contractors will be working in phases across the two properties and, when the work is complete, it is our intention to make both these properties available for rent.



Tim talks: Site raising and flood protection

“ We’ve been asked by local people about the flood protection measures needed for a new nuclear power station at Oldbury. While site raising is likely to be part of the solution, the highest ground level for a new station should be similar to the existing level of the Magnox plant.

Being able to protect our Oldbury site in a flood event is crucial. Any new nuclear power station must be protected against a flooding event so rare it might occur less frequently than once in 10,000 years. We also need to consider the potential effects of climate change, as well as possible events such as storm surges or tsunamis.

Early studies and discussions with regulators set out that this might be best achieved through a combination of raised site levels and improved flood defences. A wave wall might also be added to the flood defences, providing further protection in a worst-case event (see diagram below).

Most of our site is farmland at around +6.5m above sea level*. Initial findings suggest that our site would need to be at about +8.5m, with more sensitive nuclear plant at about +11m (about the same level as the existing Magnox buildings).

Therefore, the site would require raising from +6.5m to its new levels. Our

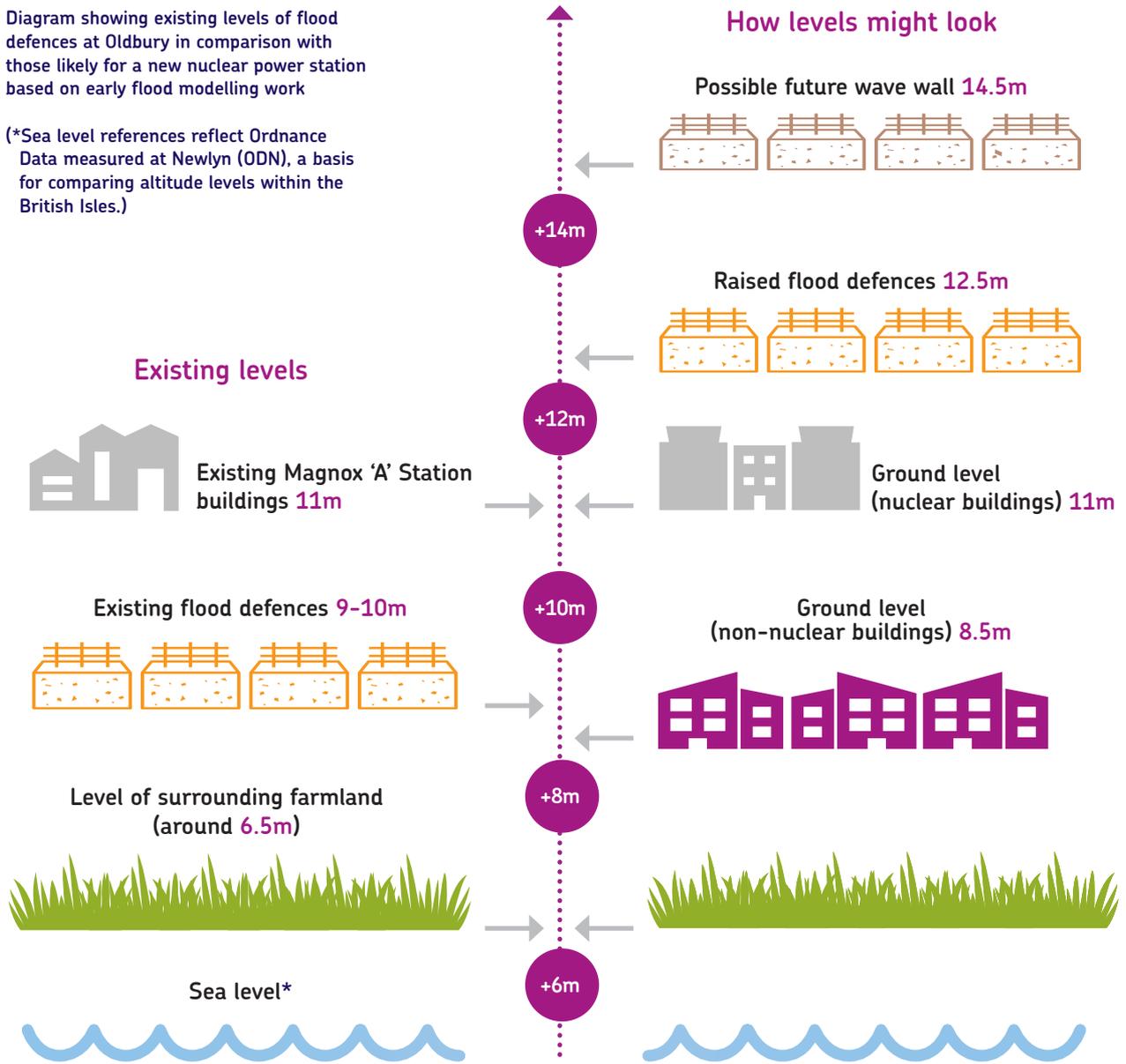
calculations will be reviewed once more detailed studies are carried out, taking into account any new information.

We recognise that local roads would not be suitable for the quantities of material needed for site raising, and we expect that material would be brought in via a temporary marine off-loading facility (MOLF) on the estuary. We will of course keep local people up-to-date with our thinking as our work develops.

Planning specialist Tim Proudler, a familiar face to many of our stakeholders around Oldbury, supports Horizon on both our new build projects.”

Diagram showing existing levels of flood defences at Oldbury in comparison with those likely for a new nuclear power station based on early flood modelling work

(*Sea level references reflect Ordnance Data measured at Newlyn (ODN), a basis for comparing altitude levels within the British Isles.)



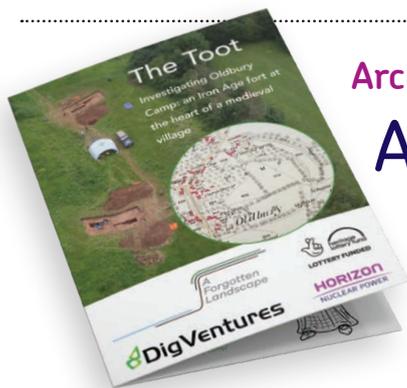
Horizon's sponsorship of the Thornbury Carnival moved up a gear this year with the main stage on Mundy Field renamed the Horizon Stage in recognition of our ongoing support of the event.

Carnival support puts Horizon centre stage

THORNBURY Carnival

The company has been a key sponsor of the carnival for more than five years and, in 2014, became one of the founding Friends of Thornbury Carnival, pledging support over a longer period to allow the event's organisers to plan ahead.

Claire Loveday, Horizon Communications Manager, said: "The carnival is deservedly a highlight in the local calendar and we have always been impressed with the range of activities and entertainment on offer. We are thrilled that this year the main stage was renamed the Horizon stage – reflecting both Thornbury's long-established links to nuclear power and our commitment to helping make the event a success."



Archaeology

Angel award for dig volunteers

An archaeological dig in Oldbury supported by Horizon has been recognised by Historic England's Angel Awards for volunteer groups contributing to the 'rescue, recording or interpretation of historic assets'.

The dig at Oldbury Camp, known locally as The Toot, formed part of local community heritage project A Forgotten Landscape's investigations into the site of an ancient hillfort in the heart of the village.

The two-week excavation last summer involved more than 60 volunteers and was



able to establish, with the help of cutting-edge analysis of soil samples collected, that Oldbury Camp was built in the late Iron Age. More information on the dig and its findings

is available via A Forgotten Landscape's website: www.aforgottenlandscape.org.uk/projects/archaeological-reports-oldbury-camp-toot-oldbury-severn/

Prize-winning speakers

Two Horizon graduates scooped honours at the South West region's Nuclear Institute Young Generation Network (YGN) speaking competition, held recently in Bristol.

The competition required contestants to give a 10-minute speech on any

nuclear energy-related subject. Sophie Collier, Engineering Management Team Technical Administrator's presentation, 'Nuclear Energy is set for a comeback – but are we ready for it?' sparked debate about the nuclear sector's future demand for skills in light of its current aging workforce. However, it was James Metcalfe, Nuclear Island Systems Engineer, who impressed the panel of expert judges with his presentation, 'Are Elon Musk's batteries the end of nuclear?' and who was awarded first prize.



National Policy Statement

Oldbury site to be nominated for next phase of new nuclear build

The Government recognises that nuclear power stations take a long time to progress from design to operation. It is now creating a new National Policy Statement on nuclear energy for sites with the potential to come online between 2026-2035. This will provide support for nuclear new build (NNB) developers and those determining approvals in the years ahead.

The Department for Business, Energy and Industrial Strategy (BEIS) has recently completed a public consultation on its assessment criteria and is now calling for developers to nominate sites into its new National Policy Statement (NPS) process.

The next step will be public consultations by BEIS on a new draft NPS and its associated



Our land at Oldbury was included in the Government's 2011 National Policy Statement for Energy Infrastructure

Appraisal of Sustainability (AoS). Leon Flexman, Horizon's Corporate Affairs Director, said: "We support the Government's move in carrying out this review. A new NPS will underpin the importance new nuclear power will have in supporting the UK's transition to a low carbon economy.

"Oldbury remains a good site for new nuclear build and we want to keep it included in the Government's NPS for future development. We will share more

information about the new NPS process as it comes to light." The new NPS will sit alongside the previous policy (EN-6), approved by Parliament in 2011, which included Oldbury, along with our Wylfa Newydd site and six others.

For more information go to: www.gov.uk/government/consultations/national-policy-statement-for-new-nuclear-above-1gw-post-2025-siting-criteria-and-process

News in brief



Thumbs up

- Ben Salisbury, Systems Engineering Manager (pictured above), got the thumbs up from year 7 pupils at the Castle School, Thornbury, when he returned to the school to speak about low carbon electricity, nuclear power and careers in the energy sector.

Energy report

- We've commissioned a report that looks into the future of the country's energy needs, 'Expanding Horizons: The Role for New Nuclear in the UK's Energy Mix' by respected independent think tank ResPublica. The report sets out how nuclear power, alongside renewables, forms part of the solution to closing the country's energy gap and why it is vital for a sustainable and secure energy mix. See www.respublica.org.uk/wp-content/uploads/2017/11/ResPublica-Report-Expanding-Horizons-The-Role-for-New-Nuclear-in-the-UKs-Energy-Mix.pdf

Follow us on Twitter

- Our Twitter feed is a great source of information on our projects as well as on career opportunities at Horizon. We tweet regular updates to keep you in the loop. Find us at @HorizonNuclear



Sustainability

Supporting nursery's sustainable energy

Our charitable donations scheme has helped First Step Pre-school in Thornbury develop a new low carbon building at its Crossways site as it expands to support the community.

Funding was granted to the pre-school, a non-profit charity organisation, for low and zero carbon technologies proposed for heating and hot water services at the new building, which provides an education space for up to 42 children.

Built in conjunction with South Gloucestershire Council (SGC), the facility has been equipped with four solar panels generating up to 3kW of zero carbon electricity. These will help reduce its ongoing bills and significantly reduce its

carbon emissions, making it one of the most sustainable pre-schools in the area.

Crossways site leader Sue Ross said: "Horizon's funding for our new building has helped us fulfil our vision of providing a sustainable setting for our children.

"We hope it will go some way to educating and inspiring future generations on the



Horizon's Samantha Richardson with the First Step team

importance of environmental stewardship." The building, which is due to open soon, provides a learning space for two to five-year olds and has enabled the pre-school to offer up to 21 additional full time places.

Recycling access



Volunteers from Thornbury composting group

■ Thornbury Community Composting Group, which provides a local, eco-friendly recycling facility for processing green waste, has used a donation from Horizon to improve its site's access and usability.

Based behind Thornbury Leisure Centre, the volunteer-led project recycles in excess of 500 tonnes of green garden material each year – none of which goes to landfill. It relies on grants as well as the sales of its non-peat based compost and bags of seasoned recycled firewood (timber recycled from the waste stream) to ensure it can continue to operate. Funding, provided through Horizon's charitable donations scheme, has been used to improve the site's facilities, including new hardstanding and signage.

David Moore from the project said: "It's thanks to Horizon that we've been able to make these improvements. We hope that the project continues to benefit both the community and the environment for a long time to come."

How to get in touch

PLEASE CONTACT US if you have any queries or comments you would like to raise with us:



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