



NuGen powers forward at Cumbrian nuclear conference

A number of high profile announcements were welcomed by hundreds of delegates at the recent n-eboc15 conference held at Energus in West Cumbria.

Tom Samson, CEO of NuGen, told delegates that the Moorside Project – which will deliver up to 3.6GW of reliable, low-carbon electricity – is making great progress and reinforced NuGen's commitment to West Cumbria.

Tom Samson said: "Nuclear new build will give a hugely significant socio-economic boost for the UK. The impact for British jobs should not be left out of the debate on competitiveness; we will look for opportunities to buy British."

Several high profile announcements were made during the conference:

- NuGen launched its 'Bright Sparks' educational initiative – a link-up with secondary schools near its Moorside site, designed to promote careers in energy and help develop an understanding of the societal and environmental aspects of electricity generation and use. (www.nugeneration.com/download/Nugens-BrightSparks.pdf)
- The Moorside supplier portal was also launched – where companies can subscribe to receive supply chain updates from NuGen (www.supplytomooriside.co.uk)
- NuGen also announced its Cumbrian charity partner, the Cumbrian Youth Alliance, which supports the development of young people in the county (www.cya.org.uk)

Our View

Welcome to our new newsletter aimed at updating NuGen's stakeholders of progress in taking forward our Moorside Project.

This is an exciting time to be in the UK nuclear industry and we welcome the recent news of commercial agreements on the Hinkley Point C project in Somerset. This shows the world that new nuclear build is powering forward in the UK, and in turn builds confidence with developers, investors and the UK supply chain.

We have been buoyed by the support of our stakeholders in Cumbria, and by the fact that both Parliament and the public at large support nuclear new build to help the UK meet carbon reduction targets, and ensure security of supply at a time of increasing reliance of imported energy supplies, which we all know are subject to volatility in price.

All fans of low-carbon electricity will naturally support renewables – but the recent coverage of the Hinkley Point C deal omitted some key basics in the economic case for nuclear. Alternatives such as gas plants or renewables have a much shorter life-cycle. New nuclear's 60-year contribution would mean alternatives would need to be replaced over the same period – but this added cost is not always factored in to the analysis.

Also, the GDP boost to the UK in the form of manufacturing, construction and



general supply chain involvement remains unmatched by alternatives – this too is an important reason why nuclear new build is good news for Britain.

NuGen is a British company working towards delivering Europe's largest new nuclear plant in West Cumbria, the UK's nuclear heartland.

Our project will be transformational for the North West, an important enabler for Cumbrian devolution ambitions and a major part of the growing Northern

Powerhouse agenda. It is fitting that we are bringing new nuclear home to the birthplace of the civil nuclear industry, West Cumbria, with its global nuclear heritage.

We will work hard to ensure we use new build experience from our partners' projects elsewhere to ensure delivery and cost certainty. This in

turn will sow the seeds of a successful UK nuclear renaissance both at home and abroad.

We look forward to working with you as we take forward our project.

**Moorside. Low-carbon, secure supply.
The UK's Nuclear Powerhouse.**

Tom Samson
CEO

"NuGen is a British company working towards delivering Europe's largest new nuclear plant in West Cumbria"

Sign up for updates on supplytomoorside.co.uk

More than 250 businesses have already signed up to receive updates using the Moorside supplier portal www.supplytomoorside.co.uk during its first week online.

The portal, launched at the n-eboc15 conference, is the place suppliers should go to learn more about NuGen's supply chain strategy and to find out about upcoming opportunities to supply to the Moorside Project.

NuGen's Director of Corporate Affairs, Gary Shuttleworth, said: "Up to 60% of the Moorside Project will be accessible to the UK supply chain and we will maximise the use of regional and local nuclear industry expertise."

Suppliers can sign up to receive communication updates including supply chain news, supplier profiles, opportunities to supply to the Moorside Project and recently awarded contracts.



The Minister for Energy, Andrea Leadsom, with NuGen CEO Tom Samson during a visit to Moorside



Company Developments: NuGen takes the Moorside Project to Westminster

NuGen has been busy meeting with officials and ministers from various Government departments over the last few months.

The discussions have focused on how the Government can assist the Company to develop a robust Moorside Project business, for shareholders, and particularly for future investors.

This process is ongoing with a series of very positive high-level meetings having taken place involving ministers and key civil servants across Whitehall, including No.10.

The inaugural Moorside Strategic Development Group (MSDG) took place at the NDA's headquarters in West Lakes, chaired by the Department of Energy and Climate Change and attended by key Cumbrian stakeholders (Copeland Borough Council and Cumbrian County Council), the NDA and Sellafield. The MSDG will focus on the areas where those external aspects related to Moorside development require co-ordination and alignment, such as skills, infrastructure, logistics and transport.

The Minister for Energy, Andrea Leadsom, visited Moorside for a site tour following a roundtable discussion in Carlisle providing NuGen with the opportunity to showcase its efforts to date, explain the site in some detail to the Minister and get across its messages about the key differences between Moorside and the Hinkley Point C project. The visit was received very well by officials from DECC, and the Minister was given a 'mini consultation' by the team which took forward NuGen's Stage One Consultation. The second stage of NuGen's Development Consent Order (DCO) consultation will begin in May 2016.

MOORSIDE... POWERING THE NORTH

Guests at a reception held in Manchester Town Hall heard that NuGen's Moorside Nuclear Power Station "will be the engine of the Northern Powerhouse".

Sir Howard Bernstein, Chief Executive of Manchester City Council, welcomed guests to the reception to mark NuGen's first board meeting in Manchester and wished them well with the Moorside Project.

NuGen's chairman, Shigenori Shiga, flew in from Japan for the event and was joined by industry and community leaders from West Cumbria and Manchester - along with agencies including the CBI and Manchester's inward investment agency, MIDAS.

Urban Splash entrepreneur, Tom Bloxham MBE, spoke about his own regeneration work, Manchester's resurgence on a world-stage and the city's importance to the Northern Powerhouse. He also spoke about the potential to transform the communities close to the Moorside Site and to leave a positive lasting legacy.



NuGen is also working hard to expand its workforce and workplace. The company recently took a second floor at its Piccadilly Place headquarters in Manchester city centre, and is recruiting nuclear professional across the business. To this end NuGen recently re-launched its company vision, mission and values.

Organisational development at NuGen is incredibly important to the Company's ability to hold a nuclear site licence, which is in turn important for its shareholders in making the Final Investment Decision in 2018. A significant amount of work is taking place to build NuGen's capacity and capability as a company - both in terms of recruitment and training, and it has been working with business partners PWC to develop corporate procedures and processes.

Finally, site characterisation work re-commences on-site at Moorside during November. The next phase will look closely at site layout for the Moorside Power Station and will feed in directly to our stage two consultation in 2016.

NuGen's commitment to the environment

Moorside will be capable of meeting seven per-cent of the UK's low-carbon electricity needs – and environmental considerations are at the forefront of the company's plans.

NuGen is committed to environmental sustainability in the communities surrounding the Moorside site. As part of this commitment, the company is involved in a number of initiatives which will make a contribution and leave a positive legacy in West Cumbria.



The Green Grants campaign

Green Grants

NuGen's 'Green Grants' scheme will help to fund local environmental initiatives in the communities close to the Moorside site. Grants of up to £5,000 were made available for community projects that are focussed on improving and enhancing the environment in a sustainable way. Applications have now closed, but announcements about the successful schemes will be made in the coming weeks.



Members of NuGen's environment team taking part in a beach clean to protect Cumbria's marine wildlife

Beach clean to protect Cumbria's marine wildlife

A community beach clean was held at Seascale Beach in a bid to create a better environment for marine wildlife. NuGen staff and contractors, joined by around thirty pupils from Seascale School, spent the afternoon cleaning a hundred-metre stretch of the beach collecting litter and debris that had been washed up onto the shore.



The best way to cover as much ground as possible and to understand the scale of the Moorside Project is by bike

Moorside Cycle Tour

The Moorside site, to the North and West of Sellafield, covers a large geographical area with various types of terrain. The best way to cover as much ground as possible and to understand the scale of the project is by bike. NuGen's environment team has organised a number of 'Moorside Cycle Tours' with key stakeholders and regulators who will be heavily involved in the Moorside Project as it moves forward.

AP1000 plants around the world

Westinghouse is constructing the first eight AP1000® reactors at four sites: Sanmen in Zhejiang and Haiyang in Shandong in China; and VC Summer in South Carolina and Vogtle in Georgia, in the US.

At the Chinese sites, where the first units at Sanmen and Haiyang are due to enter service in 2016 and 2017, both Haiyang 2 and Sanmen 2 reached milestones with the installation of the tops of the containment vessels recently. The containment vessel is a high integrity, free-standing steel structure with a wall thickness of 4.5cm.

In the US, where the sites are expected to enter service in 2019 and 2020, the installation of shield building panels has begun at Vogtle 3 and VC Summer 2. The panels weigh more than 10 tonnes each and will be filled with concrete to provide structural support for the containment cooling water supply and protect the containment vessel.



Image supplied by the Sanmen Nuclear Power Company Ltd

At both Vogtle 4 and VC Summer 3, the module that will house the reactor pressure vessel has been installed. The 32-tonne CA04 module - also known as the reactor vessel cavity - was placed on the containment vessel bottom head for each unit, lifted into place using one of the largest cranes in the world that stands at 170m tall.

MEET THE NUGEN TEAM

The NuGen team is growing from strength to strength as the Moorside Project powers forward. The company has a wealth of UK nuclear industry expertise and in the first issue of NuGen's newsletter we'll introduce some of our colleagues we hope you'll become more familiar with.



Vishal Shethwood
Licensing Engineer

Vishal has worked with all of the UK's three new nuclear build developers. Before moving to NuGen, he worked at Horizon in its licensing and regulatory interface team.

Vishal is responsible for setting up a regulatory interface capability ahead of when NuGen needs to apply for a site licence. He is also developing a strategy for preparing a nuclear site licence application and working towards ultimately gaining a nuclear site licence for Moorside in 2018.



Róisín Gregory
Procurement Assistant

Róisín joined the NuGen team in April 2015. Since graduating from Manchester University, Róisín has gained experience as a paralegal, working for law firms in Liverpool and Manchester.

Róisín is a member of the procurement team responsible for establishing contracts and corporate rates and playing a pivotal role in implementing SAP software throughout the business.



Penelope Crookshank
Junior Environmental Sustainability Engineer

Penelope (Penny) is a Junior Environmental Sustainability Engineer working with the Environment Team. She will be developing and implementing the Sustainability Management System in NuGen.

Originally from the Isle of Man, but now living in Manchester, Penny has played a vital role in establishing the Green Grants scheme and will be working closely with the Communications team to develop the supplier portal:
www.supplytomooriside.co.uk.



NUGEN'S BRIGHT SPARKS



Supporting Education in West Cumbria

NuGen's Bright Sparks

NuGen launched its 'Bright Sparks' educational initiative at the recent n-eboc15 conference at Energen in Workington.

The initiative will be a link-up with teachers and pupils at secondary schools near the Moorside site, designed to promote careers in energy and help develop an understanding of the need for electricity, how we generate it, how we use it in the modern world, and how we can create a sustainable low-carbon energy future.

Bright Sparks will be launched at an event early in 2016, and will include sponsored visits to power stations and a science museum, an ongoing mentoring programme and a special Schools' Energy Conference.

John Male, NuGen's Head of Training and Qualifications, said: "Bright Sparks will complement curriculum studies, while providing extra resource for teachers without being a burden to them. We think our Moorside development phase provides an interesting backdrop to show students the diversity of career paths open to them in industry."

For more information, visit:
www.nugeneration.com/download/Nugens-BrightSparks.pdf

Westminster update



The Member of Parliament for Copeland, Jamie Reed, has been appointed to the Energy and Climate Change Committee. The Committee is a cross party group that brings together a range of views on energy to hold the Government to account on its policies and decisions. This important post puts Jamie Reed at the heart of the UK energy debate.

Jamie has spoken regularly about the Moorside Project and the benefits he believes it will bring - including the huge employment and economic opportunities - outlining the positive and transformative effect Moorside will have on the region.

The Committee is currently undertaking an investigation into 'investor confidence' to assess the impact of changes that have been made by the Department of Energy and Climate Change. The results of this will be particularly interesting for NuGen as a company looking to invest heavily in UK infrastructure.

There have been further significant announcements with the launch of the National Infrastructure Commission – a body set up to provide an independent voice for infrastructure in Government. The body, which will be chaired by Lord Adonis, will bring together

heavyweights of British industry and Government together to provide a long term unbiased analysis of the country's future infrastructure needs including transportation and energy infrastructure.

The group including transportation and energy infrastructure has have prioritised the delivery of 'future-proofed energy infrastructure'. The Moorside Project will form part of the vital investment that the National Infrastructure Commission is looking to deliver across the UK in the decade to come.

Copeland Open for Business

More than 250 Cumbrian business people met at Whitehaven Golf Club at the end of October to discuss the opportunities being created in Copeland by an estimated £90 billion investment in West Cumbria over the next 20 years.

The conference was the idea of the Mayor of Copeland, Mike Starkie, who spoke about the forthcoming opportunities and investment .

He said: "There is an estimated £90 billion investment in West Cumbria over the next 20 years and we want to encourage people and businesses to make the most of the opportunities coming to the area in order to create a better and sustainable future for Copeland.

"We were delighted so many businesses from the widest range of industries were able to attend the conference. There wasn't a spare chair in the room. Now we can reach an even larger audience."

The conference heard from a host of high-level speakers including



Dr Paul Howarth (Chairman of Centre of Nuclear Excellence), Robert Armour (Deputy Chairman of NuGen), Rory O'Neill (Stakeholder Relations Director at Sellafield Ltd), Rob Johnston (Chairman of Cumbria Chamber of Commerce) and John Groves (Head of Nuclear, Energy and Planning at Copeland Council).

Deputy Chair of NuGen, Robert Armour, said: "We are committed to creating a positive legacy for the area from our development at Moorside. Our programme could provide employment opportunities for the grandchildren of the people at the conference here today. We want the project to have a long-term benefit for Copeland."