



Nuon Magnum Nieuwsbrief

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A Vattenfall company



The summer months are often known as the off-season, but work is continuing apace at the Nuon Magnum site. The foundations are already at an advanced stage and we will soon get 'above ground'. The initial steps are also being taken in terms of phase 2, the gasification unit and the CO₂- capture unit. Initiatives have been started to enter into a good dialogue about CCS. This newsletter contains more

information on this.

More and more workers are coming to the construction site. It goes without saying that these people must have good accommodation during the time they are working on the realisation of the Nuon Magnum power plant. The construction of the Envilla workers' accommodation is making good progress as well and the first workers will be able to start living there at the beginning of January.

As stated in previous newsletters, safety is paramount for us. Attention is therefore paid to it once again in this newsletter, in the form of an interview with a member of the security team. I hope you enjoy reading the newsletter!

John Dumoulin, project director Magnum phase 1 ■■

Borg Foundation set up

The Borg Foundation was launched on 7 May 2010. Borg has been set up by seven parties – RWE, Nuon, GasUnie, NAM, Groningen Seaports, Energy Valley and Noordelijke Ontwikkelings Maatschappij – to jointly make the preparation for possible future capturing, transporting and storing CO₂ (CCS) in the north of the Netherlands. Nuon acknowledges the importance of a good information supply with regard to CCS and is therefore pleased that the foundation, which can and will play an important role, has been set up. ■■

Progress in the construction of Envilla workers' accommodation

As you know, temporary workers' accommodation is being built in Wagenborgen to house the large numbers of building specialists during the construction of the Nuon Magnum power plant. This temporary accommodation is being built by Van der Wiel and Van der Valk in combination. The accommodation will house a maximum of 1200 people.

Roel Witwerts, site manager for the Wagenborgen Envilla workers' accommodation, confirms that the building is now wind and watertight. The site has now been marked out with new fencing. The interior design will be started after the building trade holidays. The infrastructure will get under way at the same time, followed by the reception building and the care centre. The first residential units will be brought in at the end of November. It is expected that the first building specialists can move into the Envilla workers' accommodation at the beginning of January. ■



Modular pipe racks ready for the Eemshaven

FIP is one of the four subcontractors of main contractor Mitsubishi that will take part in the construction of Nuon Magnum. FIP Magnum is a consortium consisting of Fabricom (Belgium), Irem (Italy) and Ponticelli Frères (France). The consortium is responsible for installing all the electrical and mechanical components in the plant and for carrying out all the preparations for testing and commissioning.

Time was lost because of the construction freeze. To get back some of that time, FIP has suggested building modular pre-assembled pipe racks (PARs). These are modular steel structures to which the pipes and cables will be affixed. This will enable work that would have had to be carried out on site to be done in the factory. Not only is this quicker, it is also safer and cheaper. The manufacture of the PARs started in February 2010 in

Hoboken, near Antwerp. The PARs will link various auxiliary units with the three combined cycle units (steam and gas turbines). All the PARs linked together will cover a length of approximately 800 meters, supporting almost 19 kilometres of pipes and cables.

'The first racks will be transported to the Eemshaven in September by barge over the river Scheldt and the North Sea,' says Nicolas Degand, Project Execution Manager of FIP. The PARs will then be mounted on the foundations and connected to each other for testing and commissioning. In short, a big and challenging operation! ■



Interview with Hessel Dokter

There are 24 employees of the security firm Trigion working on the Magnum site. Such a large number are needed in order to maintain round-the-clock security, seven days a week. As construction progresses the site is getting busier, so the security team is getting busier too.

The tasks of security are:

1. Access control
2. Fire rounds and closing tour of the Nuon building
3. Outside surveillance, to prevent unauthorised people from entering the premises.

Hessel Dokter is an employee of Trigion security. 'Trigion is inflexible as far as access control is concerned: anyone who has not been registered will not be admitted,' says Hessel. 'We make no exceptions to this. And all those who have been registered have to be able to identify themselves. In addition, all visitors to the site have to watch the safety film so that they know what is and is not permitted and what they have to do in the event of an emergency.'

Trigion controls the access not only of visitors but also of people who come to carry out construction work. Without the right identification they are not admitted to the premises. Everyone has to have a BSN (citizen service number) and an E101 social security form to prove that he or she has social insurance in his or her own country. Needless to say, a passport or identity card and a VCA diploma are mandatory. 'We are doing everything possible to prevent moonlighting and to guarantee safety,' says Hessel. 'This isn't as simple as it sounds, in particular because identity cards can be difficult to verify.'

Fortunately the Belastingdienst has an office in the Eemshaven, so the opinion of the Belastingdienst can be requested in case of doubt.

In addition to the strict access control, everyone is required to wear their access pass visibly and spot checks are carried out during working hours.

'We are doing everything possible to prevent moonlighting and to guarantee safety,' says Hessel. ■■



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Declaration of intent signed

On 21 June six nature and environment bodies (NMOs) and three companies signed a declaration of intent, in which the parties undertake to work together to improve the ecological quality of the Eems-Dollard estuary that borders the Eemshaven. They also undertake to reduce the CO₂ and other emissions of the RWE and Nuon power plants in the Eemshaven and the industry park as a whole and to continue to make the industrial development more sustainable. Nuon is happy to be able to work with the NMOs to steer the industrial and economic development as well as the restoration of the natural environment of the immediate vicinity of the Eemshaven in the right direction. The declaration of intent is an important step towards a covenant in which agreements about these developments are laid down and arrangements are made for their implementation. ■■

Gas fields suitable for CO₂ storage

On 24 the Dutch government published a list of nine gas fields that are suitable for storing CO₂ in the north of the Netherlands. Three of these nine gas fields have been preselected for investigation so as to decide which the most suitable for CO₂ storage.

Last year the government assigned Gasunie and EBN the task of creating the foundations for a national master plan for CO₂ transport and storage. The resulting study was presented to the government earlier this year and forms the basis for the list of gas fields that has now been published. It is up to the companies (including Nuon for the Magnum phase 2 project) to carry out the subsequent studies. Nuon's study is currently in full swing. ■■

Colophon

This newsletter is published by Nuon and appears quarterly.

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