

## Final Time Lapse

Watch the building construction from start to finish in just 21 seconds!

[www.hvdcentre.com/download/final-time-lapse/](http://www.hvdcentre.com/download/final-time-lapse/)

## New Website

Check out our brand new website for The National HVDC Centre. You can read about the team and their plan for the coming year -

[www.hvdcentre.com](http://www.hvdcentre.com)

## Opening Day

Send us feedback via the link on our new Website!

## HVDC Operators' Forum

We are looking forward to holding this year's HVDC Operators' Forum at the new Centre on 27 April 2017. Keep checking our Newsletters for the announcement of the next one!

## Twitter

Why not follow us on Twitter @SSEN\_FN where we will be tweeting live updates using #NationalHVDC

**This is the ninth Newsletter for The National HVDC Centre, which aims to keep stakeholders informed of our progress and developments.**

*In this edition, we focus on: the Grand Opening of the Centre, the Centre's plan for the coming year and the services that are available.*

## Grand Opening of The National HVDC Centre!



The National HVDC Centre, 26 April 2017

We are proud and excited to announce the grand opening of The National HVDC Centre, here in Cumbernauld.

Jamie Hepburn MSP, together with Gregor Alexander (SSE), Dave Gardner (SSEN), Iliana Portugues (National Grid) and Craig McTaggart (SP Energy Networks), formally opened the Centre today.

We would like to thank everyone who has supported and contributed to the development of the Centre over the last

three years; and SSE property services, the Architect (BSP Architects), and the main contractor (CCG), for delivering an impressive building.

However, we now embark on the new journey, to operate this facility to support (and de-risk) the deployment of HVDC over the coming years.

We look forward to working with you at our new Centre.

**Simon Marshall**  
Project Manager

## Congratulations to the Project Team

Since 2013, when SSEN were awarded funding from Ofgem's National Innovation Competition, Simon and the team have been working hard to get the Centre ready for business.

We are all very happy to have reached the Grand Opening and have enjoyed working together on this project.



The SSEN Project Team

**Colin Cameron**  
ICT Engineer

**Ruth McKelvie**  
Graduate Engineer

**Vicky Gilford**  
Communications Manager

**Simon Marshall**  
Project Manager

W: [hvdcentre.com](http://hvdcentre.com)

E: [info@hvdcentre.com](mailto:info@hvdcentre.com)



The National  
HVDC Centre



## Thank you!

We would like to extend a massive thank you to everyone who sent us their HVDC photos. Here is a look at a few that feature in the centre...



Ceramic Insulators, Mutual Energy-Moyle



BritNed Converter Station, Siemens



Valve Hall, ABB



DC Cable Sealing End, Western HVDC Link



Blast Walls at Spittal, SSEN

### The National HVDC Centre Team

With the build complete, we are ready to begin the technical work to tackle the challenges of widespread adoption of HVDC technology in GB. state of the art facilities and working with together with Transmission & HVDC Operators to create solutions.

We look forward to using the Centre's

**Yash Audichya**  
Head of HVDC Technology

### NovaCor™: New RTDS® Hardware

We, are pleased to announce that the HVDC Centre will be the 1<sup>st</sup> worldwide installation of the new generation RTDS® hardware, NovoCor™.

- Each chassis has 2-3 times the simulation capacity of a fully loaded PB5-based rack.
- It is scalable; each chassis can have 1- 10 powerful cores running at 3.5GHz.
- Can solve hundreds of nodes on a single core.
- Provides higher precision simulations with timesteps reduced by up to 50%.

These features enhance simulation capability and performance.



NovaCor™ RTDS® Hardware

**Tarun Sharma**  
Simulation Engineer

### Training

We are developing a number of training modules including: Introduction to HVDC; Operator Training; HVDC Planning; DC Grids; FACTS Devices; and Centre Experience.

We can also develop training to meet a client's specific need. If this is of interest to you or you would like more information about a bespoke training session(s) please get in touch.

**Ian Cowan**  
Simulation Engineer

### Plan for the New Year

This year we are working on a number of projects including;

- Testing a model of the Caithness-Moray DC link and surrounding AC system on the RTDS®;
- Developing interactive training courses to support HVDC users;
- Supporting SSEN/NGT transmission planning with studies of the proposed East-Coast HVDC link; and
- Supporting EU Grid Code development to incorporate HVDC.

**Patrick McNabb**  
Simulation Engineer

### Requests

To support the deployment of HVDC, we offer a range of services, including: 'Studies', 'Training', 'Support' and use of our 'Facility' (*for more information please see our web site*).

Any organisation can request these services, to support HVDC

and we already have a number of exciting projects planned for the Centre.

To request any of these services, please contact us, or complete the 'Request Form' on our website

**Simon Marshall**  
HVDC Centre Manager

