

<b>FACTS</b>	Northern Powergrid part of industry-leading collaboration to explore future energy systems
<b>RESEARCH AREA</b>	Network Management & Flexibility
<b>START DATE - END DATE</b>	Jul 2017 - Apr 2019
<b>FUNDING MECHANISM</b>	Network Innovation Allowance
<b>ESTIMATED EXPENDITURE</b>	£4,000,000
<b>PROJECTS PARTNERS</b>	Northern Gas Networks and Newcastle University
<b>MORE ON</b>	<a href="http://www.smarternetworks.org/project/nia_npg_017">http://www.smarternetworks.org/project/nia_npg_017</a>

## CONTEXT

Northern Powergrid will form part of an industry leading collaboration to explore future energy systems. The InTEGRAL site will be the UK's first incubator for leading integrated energy system technology. The centre will bring together world leading academic and engineering talent to develop whole systems technology required to deliver a low carbon energy future for customers.

## EXPECTED OUTCOMES

InTEGRAL will tackle the UK's energy challenges head on, with teams of academics and engineers working to deliver breakthroughs in the decarbonisation of heat, energy storage and transport. It is an investment in the consumer, as the principal aim will be working to identify the most affordable and practical solution to moving customers onto low carbon, low cost energy.

## APPROACH

The £30 million NGN site in Gateshead, which will be operated in collaboration with Northern Powergrid and Newcastle University, in partnership with the National Centre for Energy Systems Integration (CESI), is an incubator for cutting edge whole energy systems technology, allowing forward-thinking businesses to test their ideas in real-world conditions, and at a large scale.

## LONG TERM PRIORITIES

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Network Environmental Footprint
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Network Reliability & Availability
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**Network Management & Flexibility**
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Demand-side Response
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Network Planning & Design
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Communication & Engagement
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IT-enabled Process Improvements
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Social Responsibility