



**Electricity
Distribution**

EIP105 – Standardised Major Project Connections

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nationalgrid



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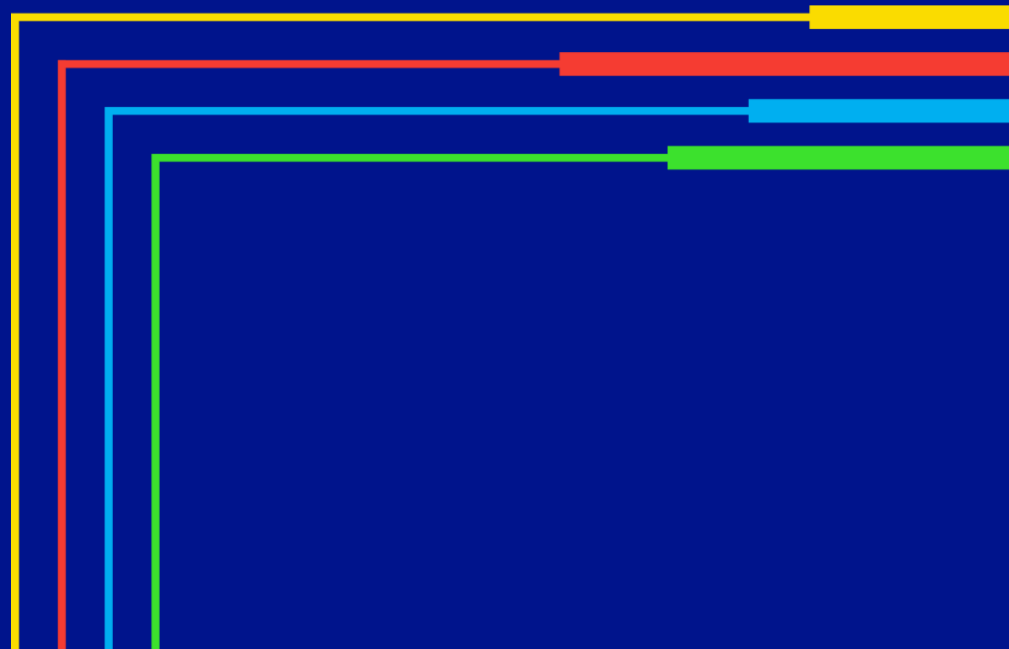
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01

The Problem



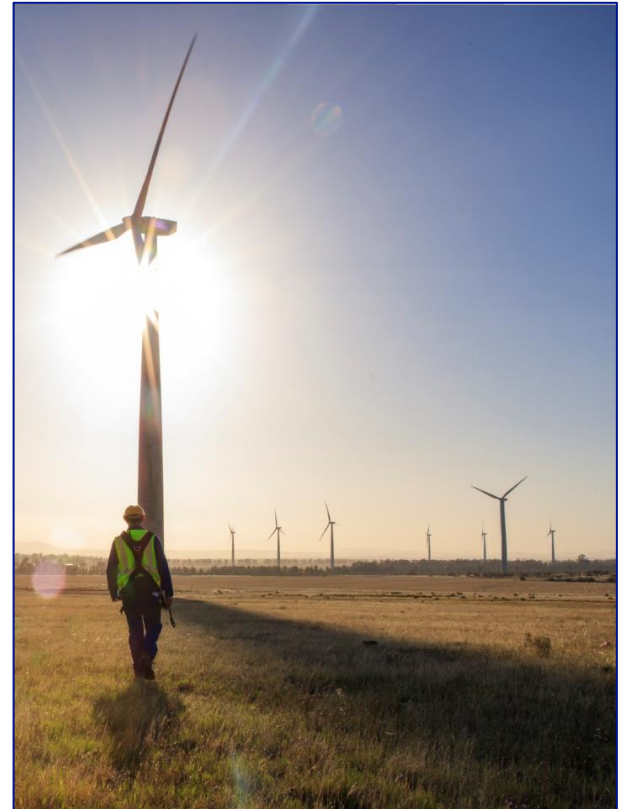
EIP105: Problem

New connections for HV, EHV and 132kV networks, are all tailor-made. It may be possible to reduce costs and improve the supply chain by developing a set of standard options that can be applied.

Customers are not currently presented with an easily understandable range of options but are required to wait for designs to be produced by network design engineers.

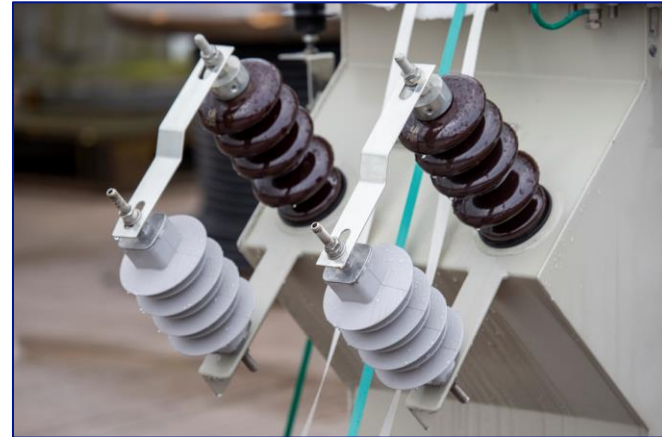
Customers are not presented with options for various levels of service and connection security.

The success of NGED's Take Charge project has shown that it is possible to create better solutions by breaking with tradition.



EIP105: Problem

We are looking for a way to streamline our range of products into standardised major project connection products, which customers can view and select online, integrated with Business-as-Usual self-serve capabilities.



EIP105: Background

Related work

The project builds on Northern Powergrid's Strategic Innovation Funded project 'Inform' which is developing HV self-serve capabilities for larger sites and non-domestic properties.

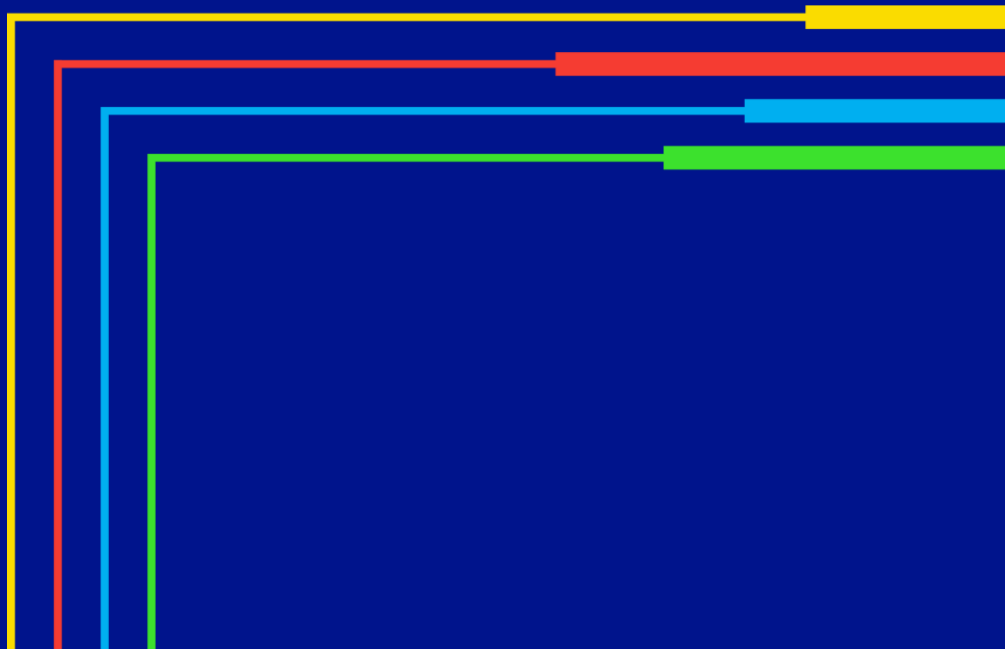
We would like to standardise the solutions selected by the tool into distinct products with the aim of improving clarity and lowering costs to customers.

Who are the key players

- Large connection developers
- Distribution Network Operators (DNOs) and Independent Distribution Network Operators (IDNOs)
- Independent Connection Providers (ICPs)
- Transformer and switchgear manufacturers and innovators
- Local authorities and councils
- Website developers

02

Solution Constraints



EIP105: Solution Constraints

The solution must:

- Allow a variety of Operational Equipment Manufacturers(OEMs) to supply equipment to maintain diversity of plant.
- Ensure DNOs can comply with applicable legislation, licence conditions, and network standards to ensure the safety to the public and network assets.
- Integrate with existing self-serve tools and capabilities.
- Be compatible with DNO obligations to facilitate Competition in Connections.
- Be better value for money than our current bespoke approach.

EIP105: Solution Expectations

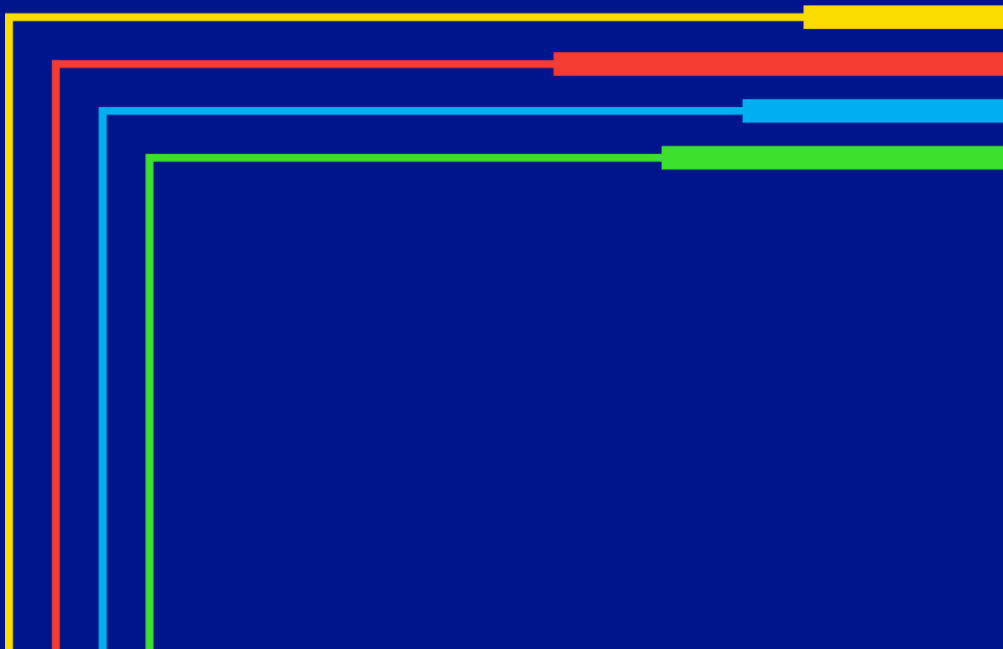
The solution might be expected to include;

- Customer/Stakeholder workshops to understand requirements / acceptable trade-offs.
- A review of whether the approach is suitable for connections at different voltages and a selection of voltages to focus on.
- An assessment of what standard options would be appropriate at each voltage.
- An economic assessment of the benefits of standardisation vs. the negative impacts.
- Customer/Stakeholder survey of final options.
- Recommendations for further projects / implementation / new self-serve tools.

For avoidance of doubt, we do **not** expect to develop new asset types and test them within this project.

03

Contacts



Contacts

New Connections

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