

Project CLoCC

Customer Low Cost Connections

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Project CLoCC



Project CLoCC

Network Innovation Competition (NIC)



Core objectives

The project is facilitating demand for lower flow gas connections to the National Transmission System by reducing the cost and time it takes to connect.

Current status of gas connections	Project CLoCC objective
Up to 3 year process to 'gas on'	Less than 1 year to 'gas on'
Up to £2million	Less than £1million

We will deliver during October 2018

Overview of Project CLoCC

The National Grid Gas Transmission System has many **Above Ground Installations** (AGI's) that were built with flanged connections for operational requirements and future expansion.

Project CLoCC will open up the accessibility to these connection points **through physical connection design, commercial improvements and a new online gas customer connections portal** intended to greatly reduce the cost and time experienced in order to connect onto the NTS.



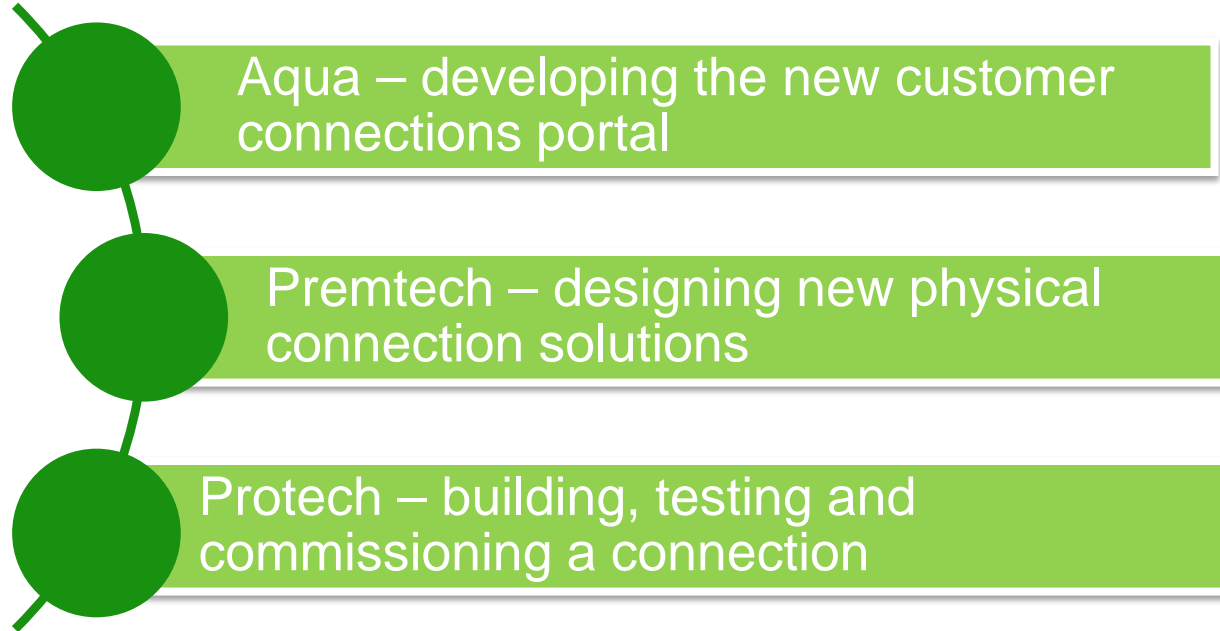
Three project workstreams:

Gas Customer Connections
Portal

Technical Workstream
Standardised Designs

Commercial Improvements

Working in partnership



Stakeholder feedback

NTS connections take too long and are too expensive

We'd like more predictable costs

We would like to be offered more services than just a Minimum Offtake Connection

Why do I need an ROV on my connection?

Why is the application fee so large?

More payment flexibility would be useful

We'd like more information on our connection progress

We'd like connection and capacity application processes better aligned

The oxygen specification for connections is prohibitive for biomethane entry projects

Stakeholder feedback

Action – online customer connections platform

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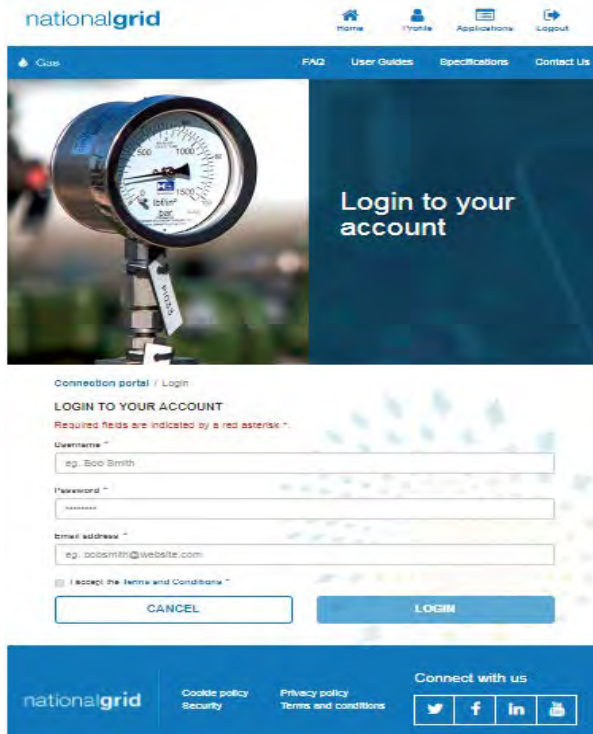
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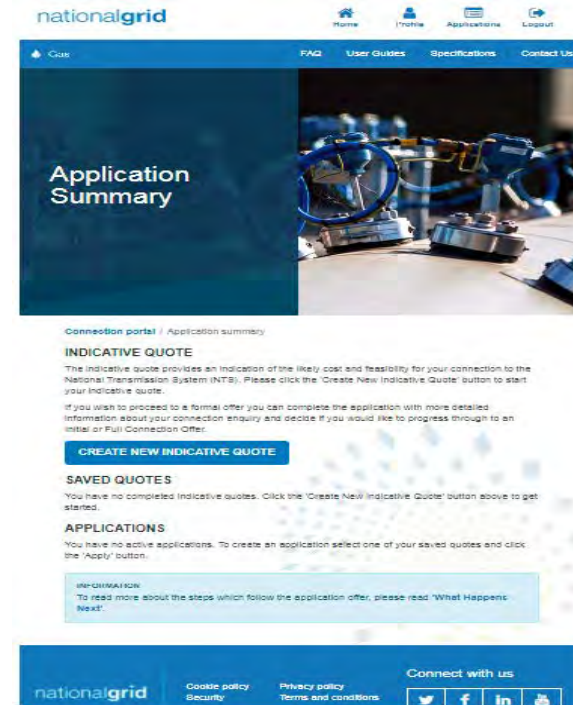
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Gas customer connections platform



Step 1 – Login or register



Step 2 – Create a new indicative quote / view saved quotes / check on applications

Gas customer connections platform

nationalgrid

Home Profile Applications Logout

Gas

FAQ User Guides Specifications Contact Us

Connection portal / Application summary / Indicative quote

1 Site Location 2 Technical Parameters 3 Indicative Quote

SITE LOCATION

Please tell us the location of the site you want to connect. Simply enter your post code or longitude/latitude coordinates (if you know them) and we will select the closest connection point.
Required fields are indicated by a red asterisk *

INFORMATION
For the purpose of this prototype we have used a pre-defined geographical area to illustrate the process. Please select a postcode from the dropdown box.

Postcode
CV36 5HQ ✓

or

Latitude (Valid range: 51.0 to 52.18) * S2.0282065 ✓ DD
Longitude (Valid range: -0.31 to -2.29) * -1.570186899999964 ✓ DD

Click and drag your site marker to change the location.

Map Satellite

EXIT NEXT

Step 3 - Create new quote.
Enter location

nationalgrid

Home Profile Applications Logout

Gas

FAQ User Guides Specifications Contact Us

Connection portal / Application summary / Indicative quote

1 Site Location 2 Technical Parameters 3 Indicative Quote

TECHNICAL PARAMETERS

To help us size your connection we need you to tell us some technical details.
Required fields are indicated by a red asterisk *

Type of Connection required *
Entry ✓

What types of connections are available? >

ENTRY

What is your maximum required flow rate? * 56 ✓ Scm/hr x1000
What is your maximum delivery pressure? * 76 ✓ barg

BACK NEXT

nationalgrid

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Step 4 – Enter type of connection.
Entry, exit, storage, other
Flow rate and/pressure

Gas customer connections platform

The screenshot shows the 'Indicative Quote' step of the application process. At the top, a progress bar indicates three steps: 1. Site Location, 2. Technical Parameters, and 3. Indicative Quote. Below this, the text reads: 'YOUR INDICATIVE QUOTE. Based on the information you have provided this is the closest connection point to an existing National Grid Above Ground installation (AGI). There may be a transmission pipeline closer to your location. Please select the NTS pipeline connection option from the drop down menu for an indicative quote.' A dropdown menu is set to 'Connection to an Above Ground Installation (AGI)'. The distance from the customer facility to the NIS connection point is 2.55km. A map shows a yellow location pin near Birmingham, with a red line indicating the connection path to an AGI. The bottom of the page shows the start of the 'INDICATIVE QUOTE' section.

£792,000.00

Step 5 - Quote is generated (AGI)

The screenshot shows the 'Indicative Quote' step of the application process. At the top, a progress bar indicates three steps: 1. Site Location, 2. Technical Parameters, and 3. Indicative Quote. Below this, the text reads: 'YOUR INDICATIVE QUOTE. Based on the information you have provided this is the closest connection point to an existing National Grid Above Ground installation (AGI). There may be a transmission pipeline closer to your location. Please select the NTS pipeline connection option from the drop down menu for an indicative quote.' A dropdown menu is set to 'Connection to a National Transmission System (NTS) pipeline'. The distance from the customer facility to the NIS connection point is 2.52km. A map shows a yellow location pin near Milton Keynes, with a red line indicating the connection path to an NTS pipeline. The bottom of the page shows the start of the 'INDICATIVE QUOTE' section.

£1,100,000.00

Step 6 – Quote for a pipeline connection

Stakeholder feedback

Action – Standardised designs

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Our compact design... “skiosk”

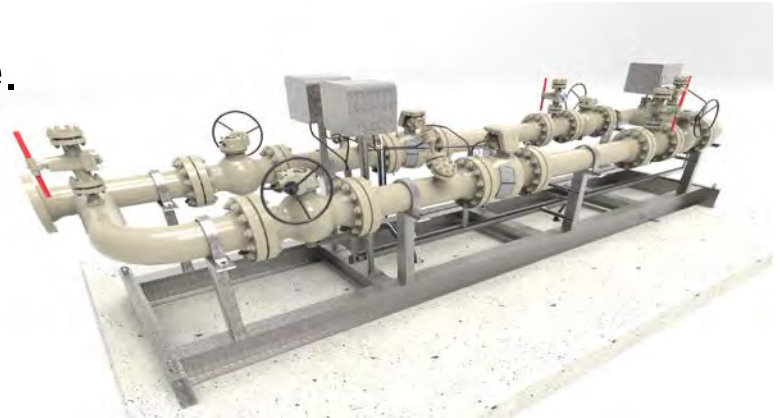
- A combined telemetry kiosk with ROV and bypass pipework.
- Factory built and tested.
- Minimal site installation works.
- G19 Appraised standard designs



Additional Designs...

Meter Module

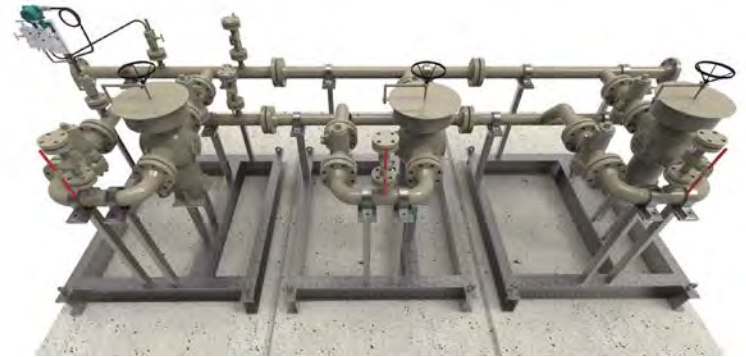
- Modular arrangement of a duty / standby meter skid.
- Fiscal standard metering.
- Available in 80NB, 200NB and 300NB sizes.
- G19 Appraised standard designs.
- Available for use on customers site.



Additional Designs...

Filter Module

- Expandable filter skid modules to match process parameters.
- Up to 4 modules can be selected.
- Available in 80NB and 200NB sizes.
- G19 Appraised standard designs.
- Available for use on customers site.



Our simplest design...

Non-ROV connections



Technical Considerations

- Utilise existing AGI locations where possible
- Direct connection to NTS pipeline available
- Generic designs – six standard design packs available
- Modular build
- Range of sizes to suit – 80mm, 200mm, 300mm NB
- Scalable to meet customer requirements over time
- Use of existing land optimised
- Technical guidance available for connection enhancements, minimum connection, gas quality

Stakeholder feedback

Action – Commercial improvements

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Commercial improvements

- Uniform Network Code (UNC) modifications
 - MOD 627s – Removal of absolute ROV requirement
 - MOD 628s – Standard Design Connections (capacity)
 - MOD 629s – Standard Design Connections (connection application process)

Stakeholder feedback

Action – NTS gas specification

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NTS Gas specification - biomethane



Thank you.

For more information: www.projectcloc.com

Project CLoCC stakeholder day on 10th July
Register your interest on our website

