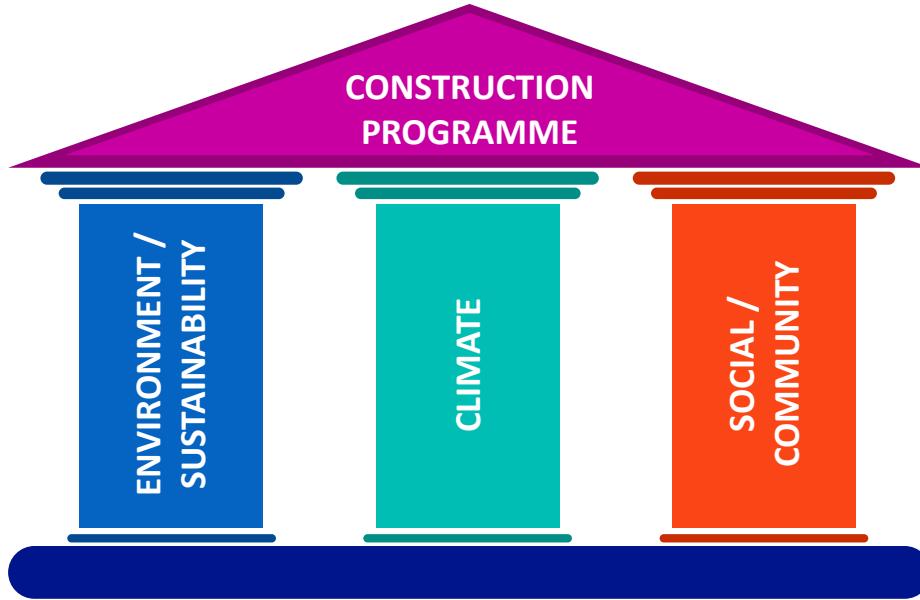


Sustainable Construction – an update on progress

We will start at 09.02 to allow participants to finish previous meetings and join the call

Welcome and Opening

Thank you for joining us today



Mark Lissimore
Director of Construction

Who will be speaking?

Anna Lea

Major Projects
Investment Manager



Jonathon Thorns

Senior Project Manager



Selena Bray

Environmental Advisor



Lauren Chater

Customer and
Stakeholder Officer



Logistics



Should last for approximately about 60 min



Questions and polling via slido.com #GT3



All callers will be placed on mute



We will circulate the slides and a recording of this webinar

Agenda

1. WHY invest?

2. WHAT are we constructing?

3. HOW are we constructing sustainably?

4. SUMMARY & Questions

Quick poll

We are delivering major investment to enable continued operation of the network and to set ourselves up for a Net Zero future.

What do you think the value of this baseline investment is across 2021 to 2026?

£450m

£760m

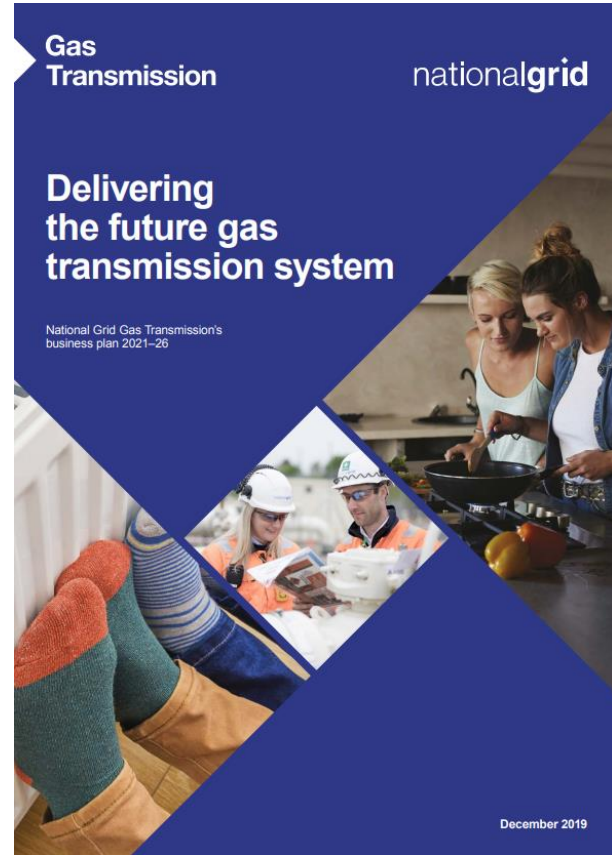
£990m

£1,240m

Construction within RII02



Gas Transmission



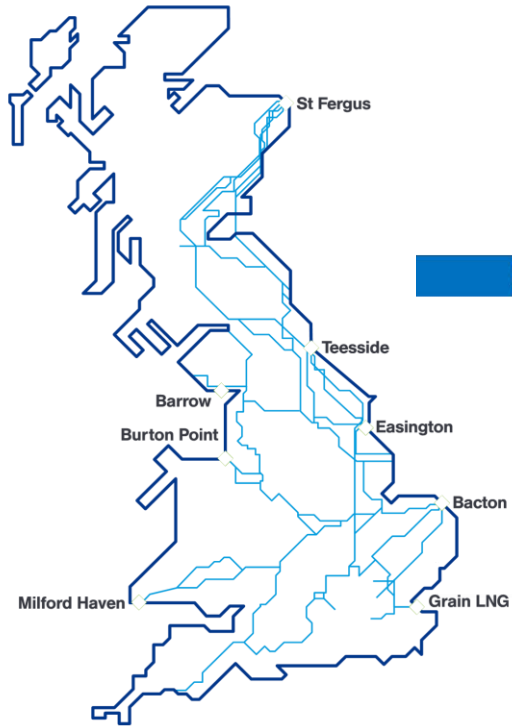
1

WHY invest?

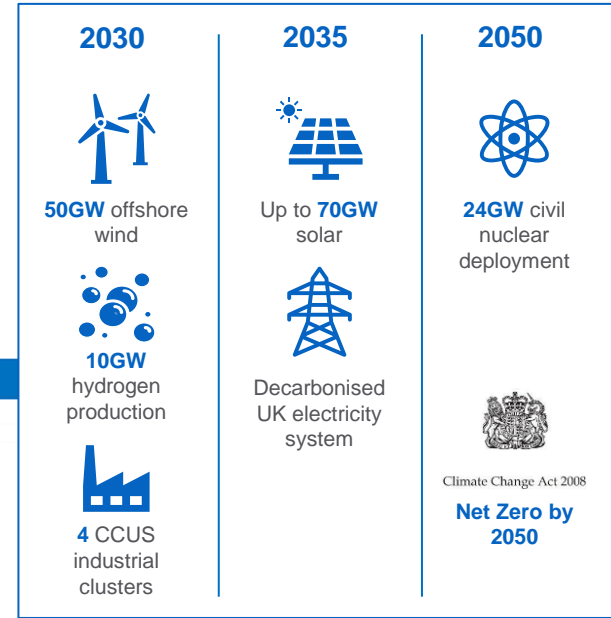
▶ Gas
Transmission



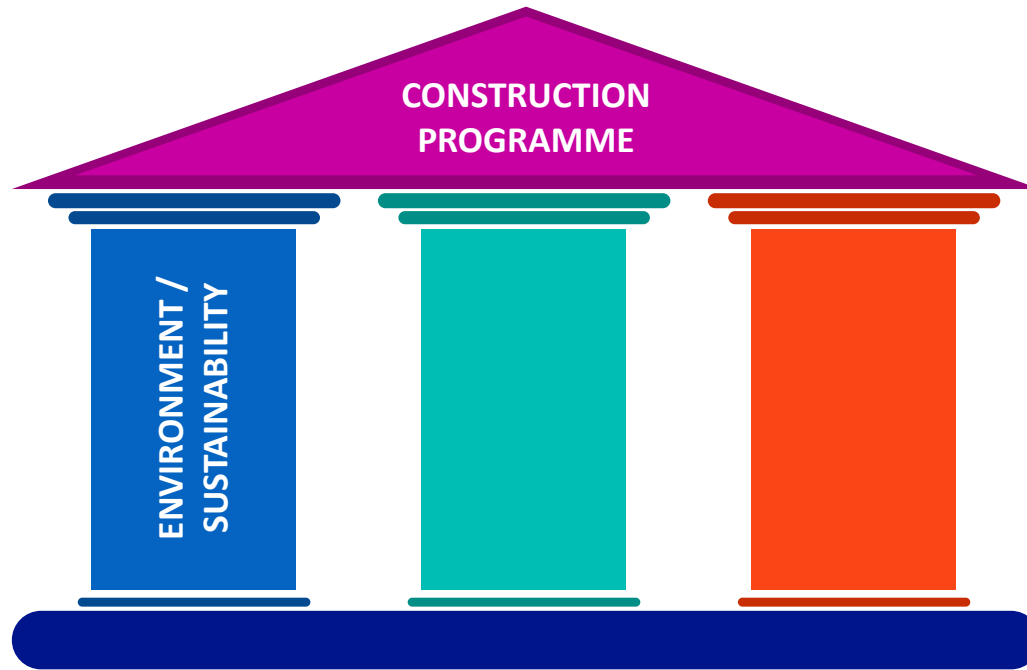
Our role today... and tomorrow



There is a role for a methane network for medium to long term in all Future Energy Scenarios



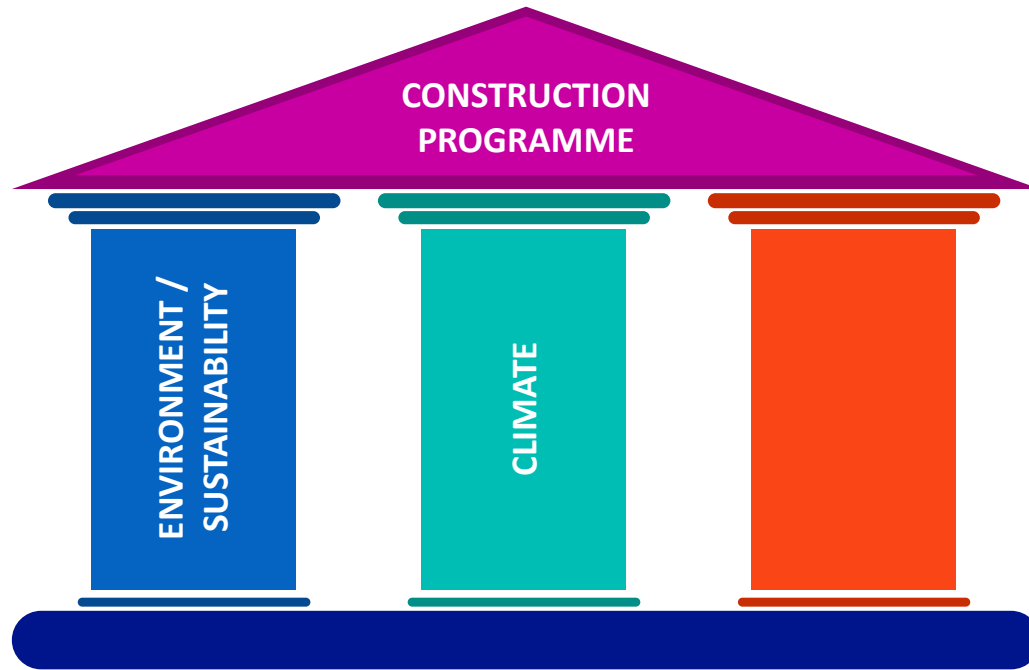
Commitments



Deliver Environmental benefit

- Reduce NOx emissions
- Minimise waste and resource use
- Protect and promote biodiversity
- Environment factors into decision making

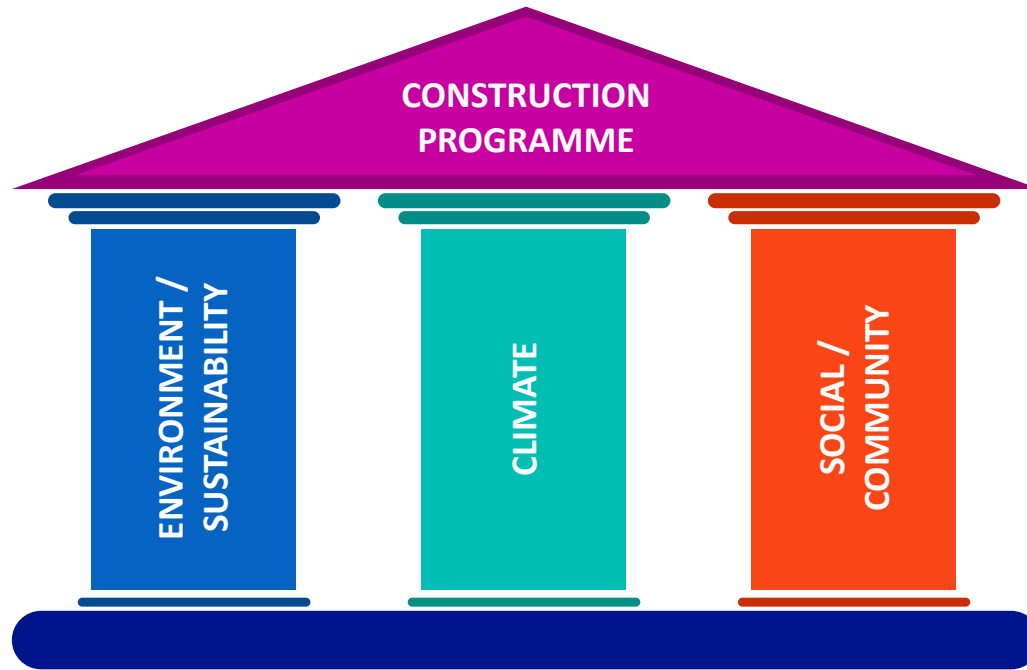
Commitments



Climate

- Carbon neutral construction
- 75% suppliers have carbon reduction targets

Commitments



Social / Community

- Fund community-led community improvement in locations with presence
- Grant schemes near construction projects & near operations

2

WHAT?

▶ Gas
Transmission



Construction programme



Emissions Reduction



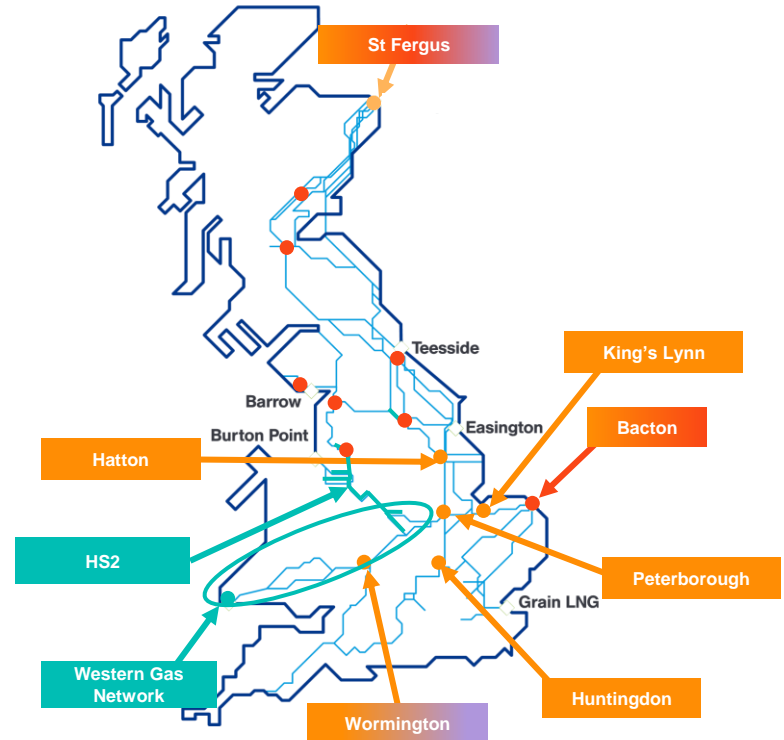
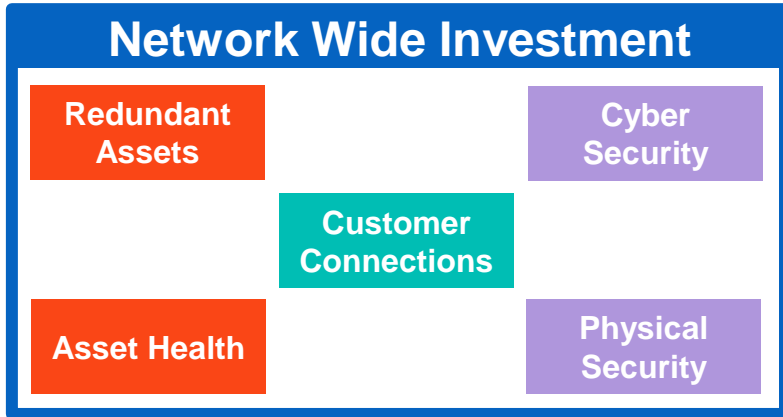
Ageing Assets



Changing Customer Need



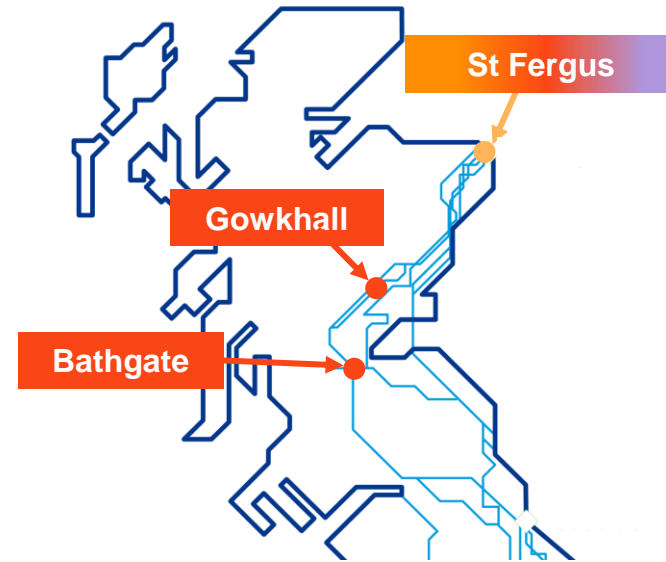
Secure Network



Scotland



Site	Construction period
St Fergus	2022+
Gowkhall	Spring 2022 to Summer 2023
Bathgate	Summer 2024



St Fergus – Asset Health, Cyber & Terminal Redevelopment

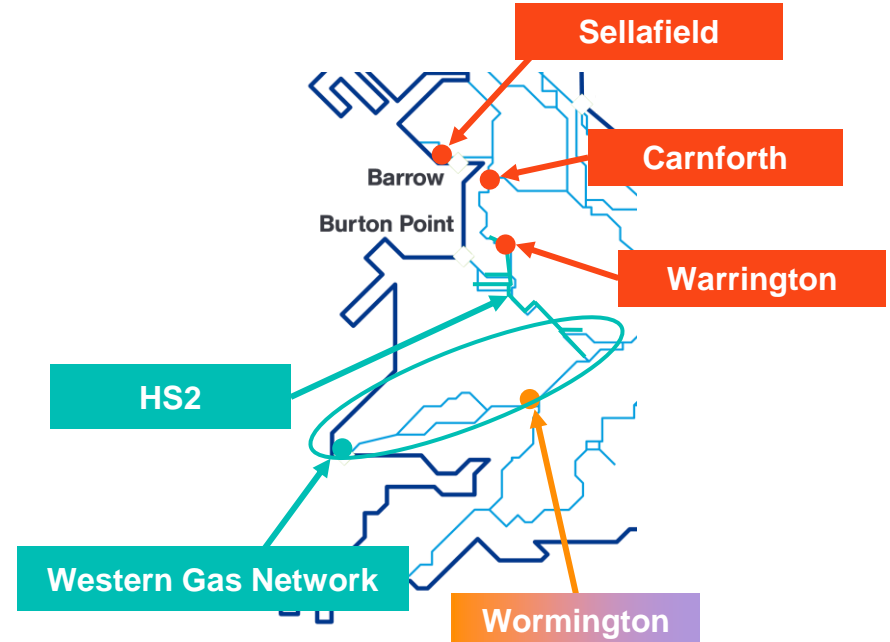


Looking to **reduce emissions** from site by **up to 75%**

West



Site	Construction period
HS2	Now to 2025
Sellafield	Late 2021 to early 2023
Carnforth	2022
Western Gas Network	2024
Warrington	Late 2024 to mid 2025
Wormington	TBC (in feasibility)



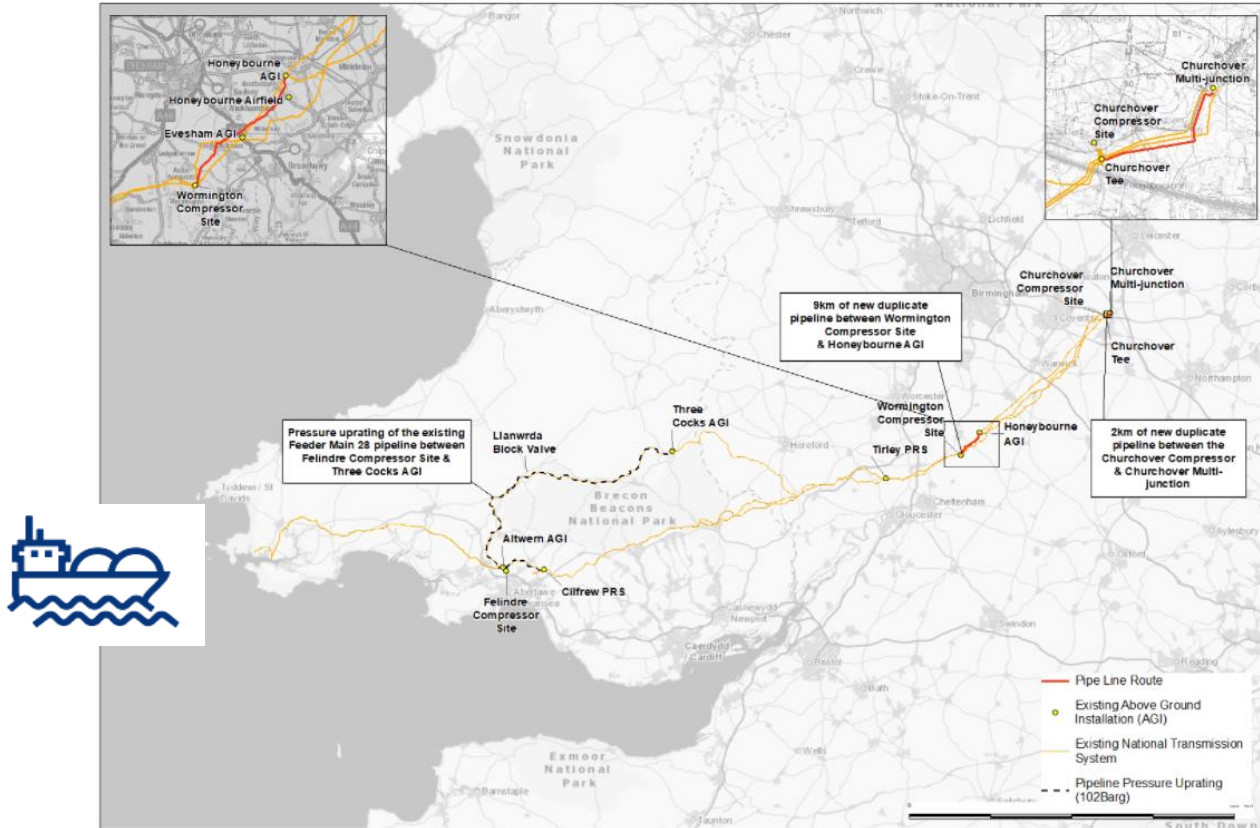
HS2 – Phased build now to 2026+



Gas Transmission



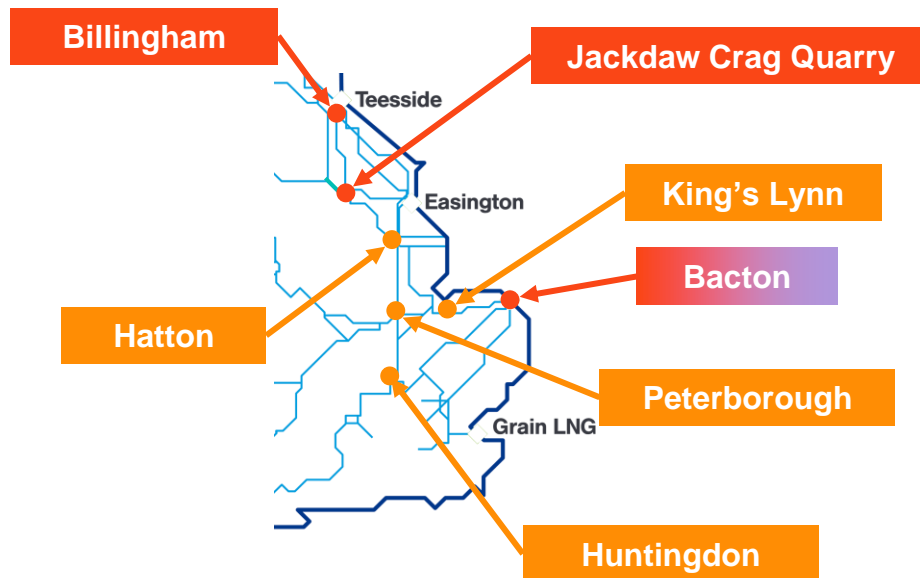
Western Gas – Increased capacity



East



Site	Construction period
Hatton	Now to end 2023
Bacton	Now to 2026+
Huntingdon	Now to 2023
Jackdaw Crag Quarry	Late 2023
Enron Billingham	Now to early 2023
Wormington	TBC (in feasibility)
Peterborough	TBC (in feasibility)
King's Lynn	TBC (in feasibility)



Peterborough & Huntingdon – Emissions Reduction – In Build



Future Emissions Reduction – Hatton, Wormington, King’s Lynn & Peterborough



Final Option Selection Report
Uncertainty Mechanism Submission
Wormington Compressor Station
August 2022

3

HOW?

▶ Gas
Transmission



Quick poll

We are passionate about being a good neighbour.

Which areas would you like us to focus on and why?

What are your local priority outcomes?

Please share your focus areas with us so we can incorporate them into our plans where possible.

Waste Management Principles in Project Delivery

RETHINK

REDUCE

REUSE

RECYCLE

Good Practice Case Study
Environment & Sustainability



**GT Contractor
Sustainability Portal**



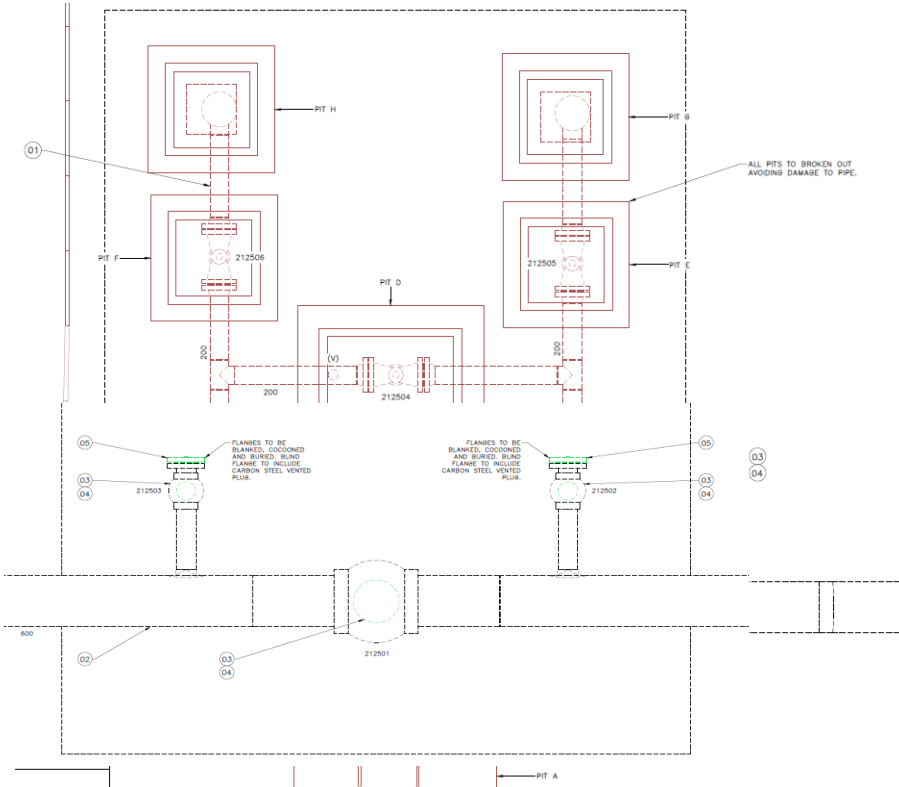
MARKit

We invite new ideas...

RETHINK to remove need for steel and venting



Before



After

During



Bypass removed

Pits removed

Stem extensions/gearboxes removed

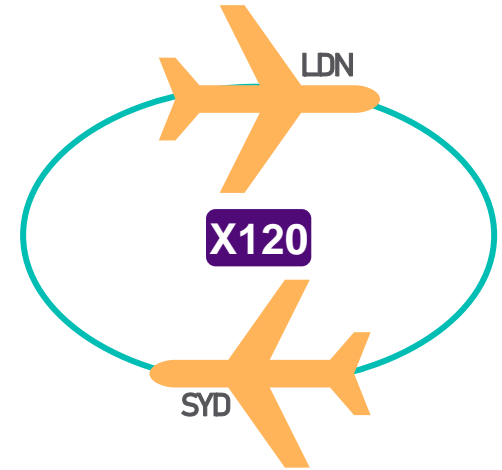
Pipework corrosion including vent and sealant lines made safe

Physical Security Update Programme (PSUP)



Gas Transmission

Reduce Concrete = Reduced Carbon = Reduced Costs



Reuse or Recycle recovered assets



Cost savings



Minimising waste to landfill
and maximising recycled and
reused materials on site

Reuse or Recycle recovered assets



Cost savings

Reduction of
environmental
impacts



Reuse or Recycle recovered assets



Cost savings



Utilising concrete crusher for recycled backfill material
Reducing vehicle movements and fuel use

Biodiversity at Hatton – Lincolnshire Chalk Streams

Biodiversity opportunities



Giving options to best benefit communities

Community Engagement

- Demonstrate GT&M is a good neighbour and part of the community
- Help build awareness of environmental issues through outreach linked to major projects

Consider offsetting
the impact



Opportunity to leave a
positive legacy



Engage meaningfully
with communities



Community Led Grant Scheme

From 1st January 2023

Up to
£20,000 for
projects
directly
linked to
GT&M major
projects



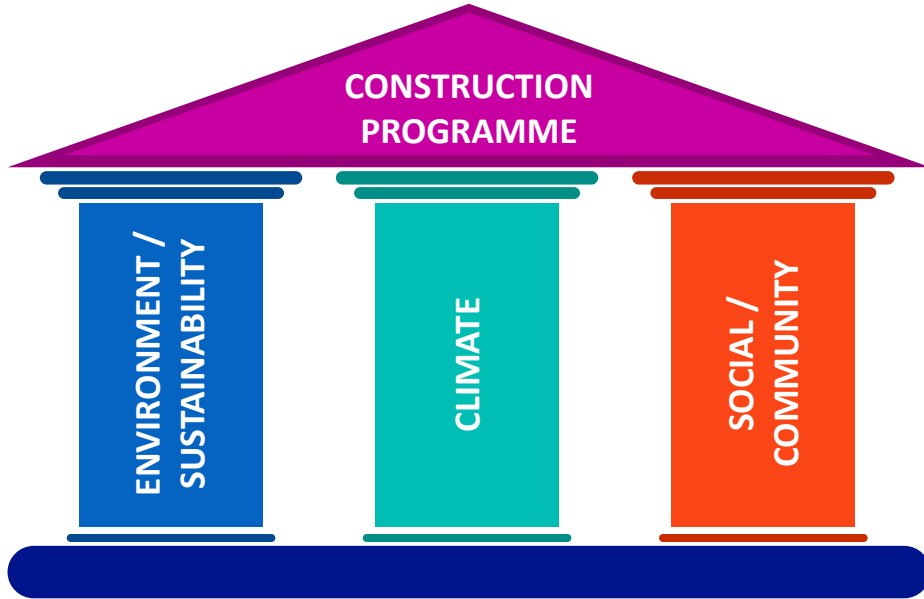
Up to
£10,000 for
any other
community
projects

4

SUMMARY & QUESTIONS



Summary



Future Webinars

Event Name		Date / Time	Presenters
Accessing Energy Data	Sign Up	Thursday 1st December @ 11:00	Mark Lissimore, Construction Director
Operating the Network	Sign Up	Friday 2nd December @ 13:00	Ian Radley, System Operations Director
Blending	Sign Up	Monday 5th December @ 10:00	Tony Green, Hydrogen Director
Transitioning to 100%	Sign Up	Tuesday 6th December @ 11:00	Martin Cook, Commercial Director
Hydrogen Regulatory Framework	Sign Up	Wednesday 7th December @ 12:00	Tony Nixon, Regulation Director
Monitoring and Mitigating Methane Emissions	Sign Up	Thursday 8th December @ 13:00	Steven Vallender, Asset Director
Future of Heat	Sign Up	Friday 9th December @ 13:30	Tony Green, Hydrogen Director
FutureGrid - Progress Report	Sign Up	Monday 12th December @ 14:00	Tony Green, Hydrogen Director
Innovation	Sign Up	Tuesday 13th December @ 13:00	Tony Green, Hydrogen Director
Driving a Positive Environmental & Community Impact	Sign Up	Wednesday 14th December @ 10:00	Jake Tudge, Corporate Affairs Director

What next?



You will receive the recording and material from today's session



If you have any further questions or would like to discuss anything specific please get in touch with Lauren.Chater@nationalgrid.com



Feedback is important to us, therefore if you have not already taken part, we would like to put you forward for a survey

Thank you for joining us





Gas

Transmission