

Bacton Strategy webinar

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Who are we?



Jonathon Thorns

System Development Engineer

Jenny Pemberton

Stakeholder Engagement Manager



Should last for approximately about 45 min

Polling via webex

Your questions are welcomed throughout via chat function

All callers will be placed on mute

Agenda for today



Quick Poll – Getting to know you

- 1. Please tell us your name
- 2. Which of the following best describes you / your organisation?

3. On a scale of A to E, where A is know nothing and E is know a great deal, how much would you say you know about National Grid Gas Transmission's operational activities?

Α.	Know nothing	
В.		
C.		
D.		
Ε.	Know a great deal	

4. On a scale of A to E, where A is not impacted at all and E is impacted a great deal, how impacted are you or those you represent) by what we've just spoken about?

- A. Not impacted at all
- В.
- C.
- D.
- E. Impacted a great deal

5. On a scale of A to E, where A is not interested at all and E is interested a great deal, how interested are you (or those you represent) by what we've just spoken about?

- A. Not interested at all
- В.
- С.
- D.
- E. Interested a great deal

A quick reminder: The drivers for change

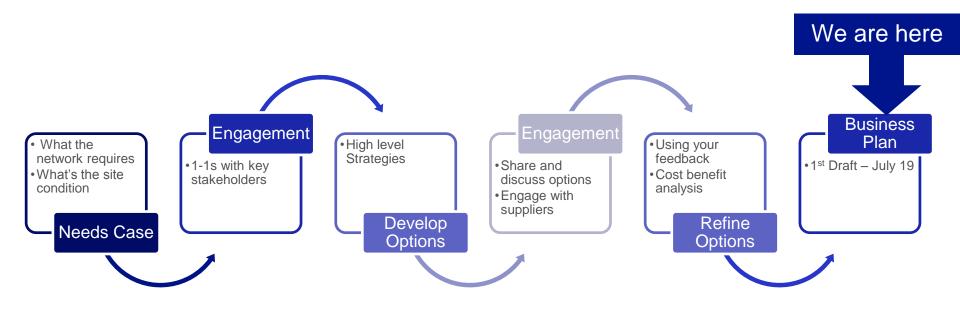
- 1. Age related asset health and obsolescence issues
- 2. Changing supply and demand patterns

So we set out to understand

- 1. Customers and stakeholders needs of the site now and into the future
- 2. Impacts of not being able to meet those needs
- 3. Implications for the local communities
- 4. Understand implication, cost and timings around the different options

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A quick reminder: Journey so far





022 What have we done...

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N. S.	-	-

Since we last spoke

- Developed more detailed costs for all preferred options
 - Deliverability assessment of all options
 - Third-party study for a new brownfield terminal
 - Including a high-level project plan, and construction strategy for a new terminal
- Conducted a high-level cost benefit analysis
 - Taking into account constraints, economic and safety factors

Since we last spoke

- Continued stakeholder engagement through
 - SNS operators meeting
 - Meeting directors of key operators to set out our strategic view of site
 - Understanding the strategic plans for the Southern North Sea
 - "Meet the buyer" conference
 - Early engagement of the local supply chain



03

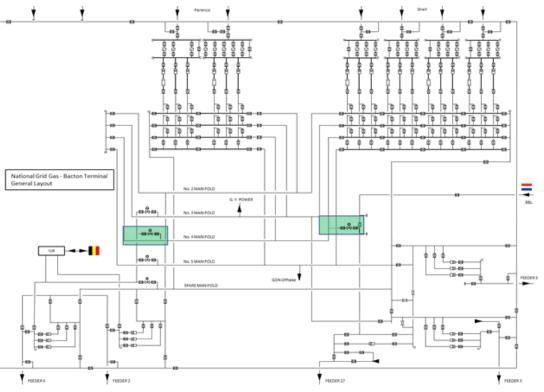
Costs



Option 1 - Like for Like Asset Replacement

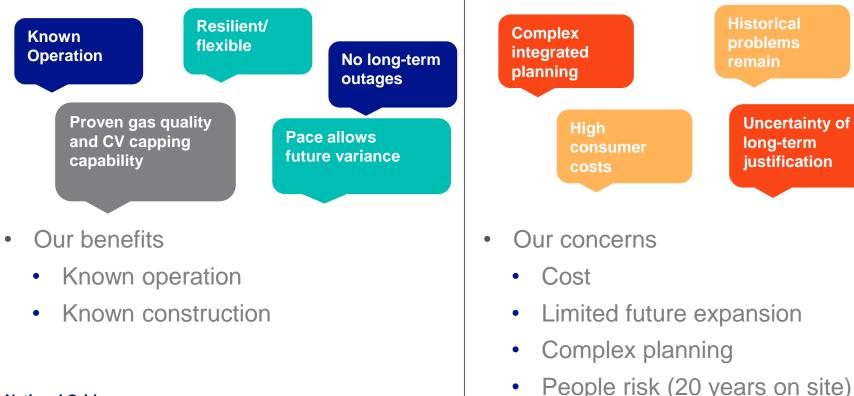
- Involves replacement of a number of assets
- Estimated 20 yrs of work





Option 1 - Like for Like Asset Replacement

• You liked...



• You didn't like.....

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Option 1 - Like for Like Asset Replacement

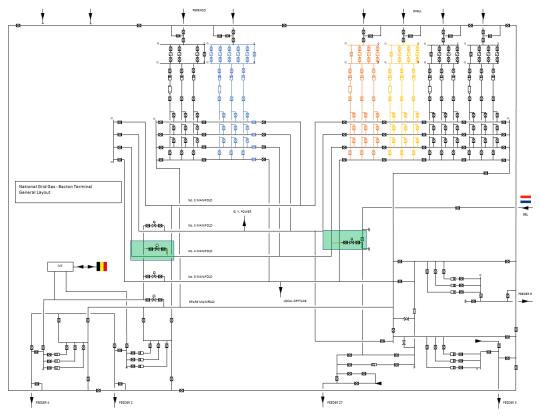
- 2021-2026 Extensive asset health works to bring site up to standard.
- 2026+ Extensive valve replacement works to enable reliable operation

		Total	370.02
Opex	14.97	14.97	34.78
Decom	4.52	0.00	9.07
New Construction	2.61	0.00	0.00
Asset Health	87.01	36.46	165.63
	2021-2026 (£m)	2026-2031 (£m)	2031-2047 (£m)

Option 2 - Rationalised Asset Replacement

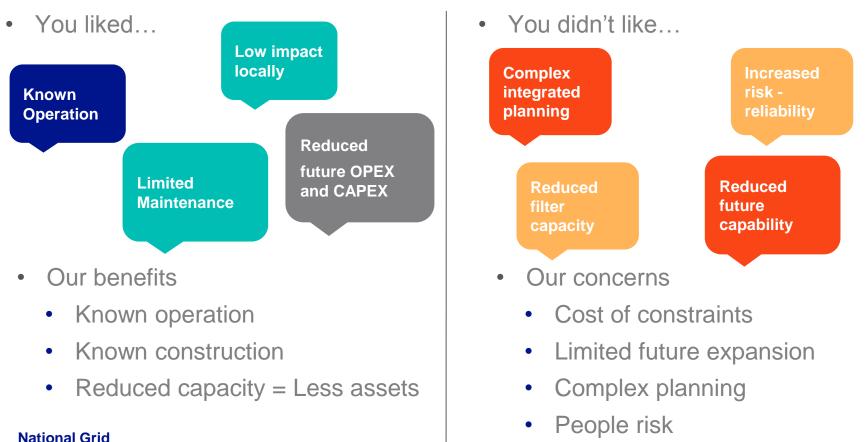
- Rationalise incomers
- Asset health work on remaining equipment
- Estimated 15-20 years of work





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Option 2 - Rationalised Asset Replacement



Option 2 - Rationalised Asset Replacement

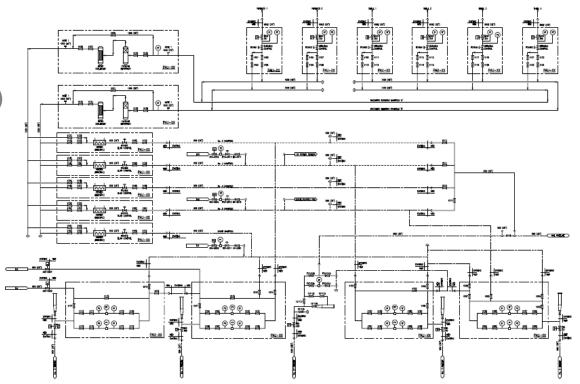
- 2021-2026 Extensive asset health works to bring site up to standard (Similar to option 1)
- 2026+ Extensive valve replacement works to enable reliable operation
- This option increase risk and cost of constraining entry

		Total	315.25
Opex	14.97	11.22	27.59
Decom	4.52	3.02	6.05
New Construction	2.61	0.00	0.00
Asset Health	92.34	42.03	110.90
	2021-2026 (£m)	2026-2031 (£m)	2031-2047 (£m)

Option 3 - New Design Terminal

- New Brownfield site (Greenfield to be considered)
- Estimated 5 yrs
- Diagram opposite is indicative





Option 3 - New Design Terminal

• You liked...



New skills
required,
external riskRisk of Cross
contamination
between suppliesWider costs
unknown

- Our Benefits
 - Future proofed
 - Reduced cost
 - Efficient build
 - Modern, integrated systems
- National Gride COMAH reduction

Our concerns

You didn't like...

- New approach/uncertainty
- High upfront cost

Option 3 – New Design Terminal

- 2021-2026 Extensive build programme for new terminal
- 2026+ Limited asset health works, constrained to "ongoing" maintenance.

		Total	235.49
Opex	14.97	2.99	9.58
Decom	2.78	9.07	6.03
New Construction	143.84	0.00	0.00
Asset Health	16.59	5.27	24.37
	2021-2026 (£m)	2026-2031 (£m)	2031-2047 (£m)

Overview

Total	Asset Health	F	Rationalise		Brownfield Terminal
Asset Health (£m)	289.10	244.00	257.97	245.27	46.24
New Construction (£m)	2.61	2.61	2.61	2.61	143.84
Decom (£m)	13.59	13.59	13.59	13.59	17.87
Opex (£m)	64.71	60.93	57.12	53.78	27.54
	370.02	321.13	331.29	315.25	235.49



Is there anything else you would like to know that would help inform your view?



Please explain your answer



04

Cost Benefit Analysis

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Cost Benefit Analysis

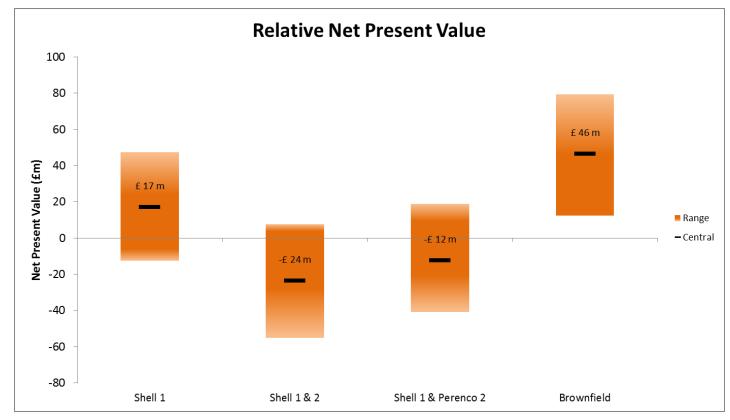
• Net Present Value (NPV) calculated for all main options to show the saving to the consumer.

Cost to build/ maintain and opex

* Does not take into account future proofing, or full societal impacts

Taking into account:

Relative NPV - Benefit to consumer



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05

Going Forward

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Going Forward

- In our July business plan we will propose that a new, purpose-built terminal is the favourable solution
- This will be built and operational within 5 years from RIIO T2 start
 - The payback period for a new terminal over asset health is 12 years (2033) from 2021.
- This option will:
 - Limit disruption to all stakeholders on site
 - Offer opportunities to expand if required
 - Ensure long term reliability and safety



Do you support our decision to progress with a new terminal?



Please explain your answer



06

Questions

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