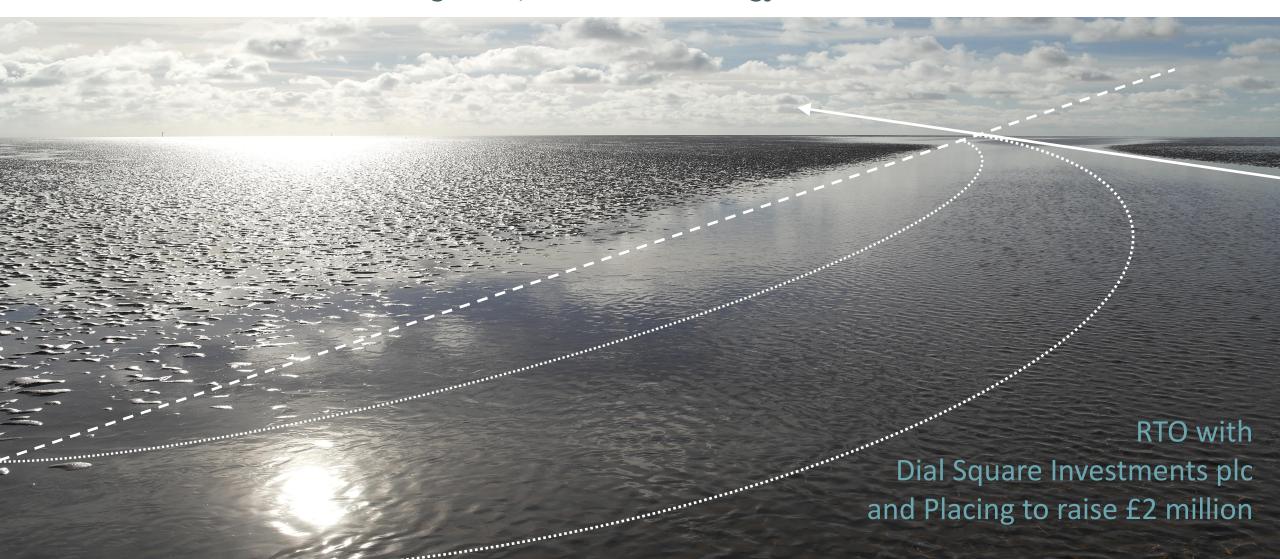
Delivering Clean, Home-Grown Energy for Britain

December 2023



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- Contingent Resources: Those quantities or petroleum estimated, as of a given date, to be potentially recoverable from known accumulations but, for which the applied projects(s) are not yet considered mature enough for commercial development due to one or more contingences.
- Prospective Resources: Those quantities of petroleum which are estimated, on a given date, to be potentially recoverable from undiscovered accumulations.
- Prospective Resource estimates are Best Estimates in each case, which is the best technical estimate based on the available data.
- 1C, 2C, 3C estimates: In a probabilistic Contingent Resource size distribution these are the P90 (90% probabilisty), P50 and P10 respectively, for individual discoveries. Totals are by arithmetic summation as recommended under PRMS guidelines. This results in conservative low case totals and optimistic high case totals.

1P, 2P, 3P estimates: In a Reserves distribution these are the P90 (90% probability), P50 and P10 respectively, for individual opportunities. Totals are by arithmetic summation as recommended under PRMS guidelines. This results in conservative low case totals and optimistic high case totals.

The petroleum resources information in this Presentation is based on, and fairly represents, information and supporting documentation compiled by Peter Nicholls is the Geoscience Manager of EnergyPathways who has over 40 years' experience in the oil and gas industry. Mr Nicholls is a geoscientist and a member of the Society of Petroleum Engineers and the American Association of Petroleum Geologists

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£2.0m
IPO Raise

4p
IPO Price

**Existing Shares** 

>85% Locked In\*

**On Admission** 

**Marram Gas Project** 

£6.3m
Market Cap

£100+m

Up to

2 TCF

Low emission, gas resource potential

\* Combined firm lock-ins (~71%) and Orderly Market Agreements, (14%)

### Unique and Relevant High Value Investment Opportunity



DOMESTIC GAS SUPPLY WILL HAVE A CRITICAL ROLE TO PLAY IN UK'S ENERGY SECURITY AND TRANSITION TO NET ZERO....

Delivering near term energy security for UK...

### INITIAL FOCUS ON MARRAM GAS FIELD DEVELOPMENT IN UK IRISH SEA

- Fully appraised ~46 billion cubic feet (BCF) gas resource<sup>1</sup>
- Simple low-cost development in shallow water
- High value project: ~£100 million NPV10, >70% ROR, <12 months payback<sup>2</sup>
- Targeting early gas supply
- Cash flow to deliver shareholder returns and growth

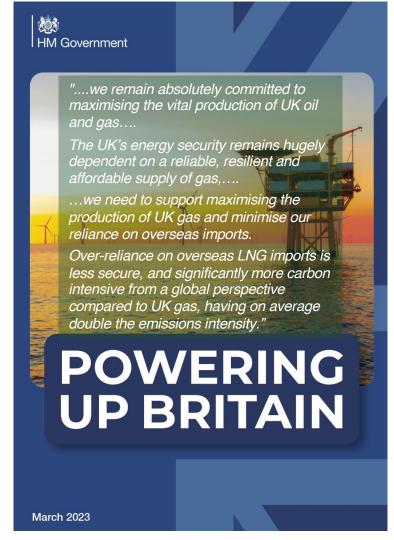
### LARGE UNREALISED GAS POTENTIAL IN UK IRISH SEA

- Up to ~2 TCF gas potential in region<sup>4</sup>
- Early mover advantage
- Licence requests progressing with UK Government
- Knox, Lowry and Castletown fields have short cycle development potential ~134 BCF gas<sup>3</sup>

### ...and pathway to net zero

### LOWERING UK'S CARBON FOOTPRINT

- UK gas supply will displace higher emission LNG imports
- UK Irish Sea unique region for energy transition opportunities
- Potential for Long Duration Energy Storage, hydrogen production and flexible powergen



- Source: Independent CPR Reserves Report RISC Advisory (27 April 2023) Estimated 2P Reserves and unrisked 20 Contingent Resources
- Source: Assumes forecast UK gas price of 114.8p / therm. EnergyPathways project valuation estimates
- 3. Source: EnergyPathways Unrisked 2C Contingent Resource estimates
- 4. Source: EnergyPathways Unrisked 2C Contingent Resource Estimate and Best Estimate Propsective Resources

### **Experienced Board and Management Team**



### **BOARD & MANAGEMENT – INTEGRATED ENERGY TEAM WITH SUCCESSFUL TRACK RECORD**

### **BOARD OF DIRECTORS**

### Mark Steeves Chairman\*

40 years' experience in energy service sectors, shipping, procurement, turnkey engineering, insurance and investment banking

Experienced NED. Presently Chair of VSA Capital. Cofounder The Geological Society Business Forum



30 years' energy experience in commercial, NBD in UKCS, Norway, Russia, Kazakhstan, Iraq, Gulf.

Shell, Kerr McGee, Enterprise. Fellow of the Geological Society of London

### Ben Hodges Chief Financial Officer\*

Fellow of CPA Australia with 24 years' experience across industry and profession

Extensive experience with AIM, TSXV and ASX listed energy and resource growth companies



### Ben Clube CEO

25 years' experience in development, production, gas commercialisation, M&A, clean tech.

Vice President, Finance BHP Petroleum, Executive Director at FAR Ltd , CEO EnergyCapture Ltd



40 years' experience in energy, infrastructure financing in renewable, biomass, landfill methane. Raised more than US\$10 bn in Renewables sector.

Founder of Carbon Capital Markets. CEO of Climate Change Ventures

### Stephen West Non-Executive Director

Chartered Accountant with ~30 years' financial and corporate experience in oil & gas, mining and biotech across public markets, fundraisings, debt and M&A. Founder/Chairman Roquefort Therapeutics plc

### **MANAGEMENT**

### Peter Nicholls **Geoscience Manager**

35 years' experience in development, exploration, appraisal geoscience, clean tech.

Exploration Manager BHP Petroleum, FAR Ltd, EnergyCapture Ltd

### Derek Grimmer Project Development Manager

25 years' experience in gas project development in UK offshore

BP, Shell, BG Group, Enquest, CNOOC

### Steve Fogarty Engineering Manager - AMOG Consulting

25 years' experience across in engineering and operational roles. Engineering house with disciplines across renewables, gas, offshore / marine, minerals, processing, powergen, clean tech.

### Kim Hosgood Commercial Manager

40 years' experience in UK gas commercialisation ConocoPhillips, Enterprise Oil, Paladin Resources, Shell, Stratic Energy, i3Energy, Dana Petroleum,









### Gas will be critical in UK's energy transition



### GAS IS A MAJOR ENERGY SUPPLY IN UK MARKET

- Gas currently supplies ~43% of UK primary energy
- 85% UK homes reliant on gas for heating
- UK's electricity market is ~40% generated by gas-fired power
- UK gas demand set to remain robust for decades to come

### INCREASING GAS IMPORTS CHALLENGES UK ENERGY SECURITY

- UK domestic gas production to fall to ~30% of current levels by 2035
- ~80% of UK gas to be imported by 2030
- Imports increasingly from LNG imports (~50%)

### CRITICAL ROLE FOR GAS IN ENERGY TRANSITION

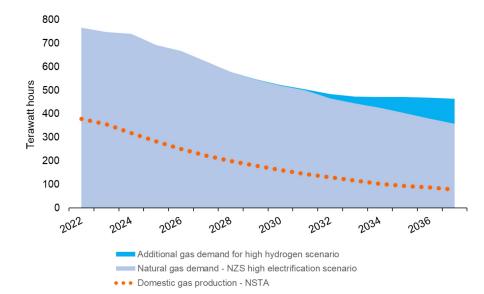
- Increased need for flexible gas power generation renewable back up and grid stability
- Development of hydrogen economy SMR gas with CCS lowest cost technology
- Increased demand for long duration energy storage gas and hydrogen

### REDUCES CARBON FOOTPRINT

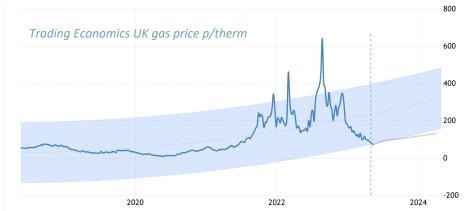
LNG imports significantly more carbon intensive – at least double emissions intensity of UK gas

### **ELEVATED GAS PRICES**

- UK gas prices now linked to global LNG prices
- Forward curve indicates prices will remain at elevated levels in the medium term



Natural gas supply and demand, 2022 to 2037



### Trading Economics 18/5/2023

UK Natural Gas is expected to trade at 93.72 p/therm by the end of Q2 2023, Looking forward, we estimate it to trade at 133.23 in 12 months time.

### Marram - A "Ready To Go" Gas Development



HIGH VALUE, LOW EMISSION GAS PROJECT CAPABLE OF DELIVERING HIGH RETURNS AND FAST PAYBACK FOR SHAREHOLDERS....

### **LOW RISK PATH TO EARLY PRODUCTION**

Discovered 1993 (Ranger)

Appraised 2009 (Venture)

Shallow water ~15-20m

Near shore Lancashire coast ~15km

**Existing infrastructure** ~15-20km - tie back options

Close to energy markets

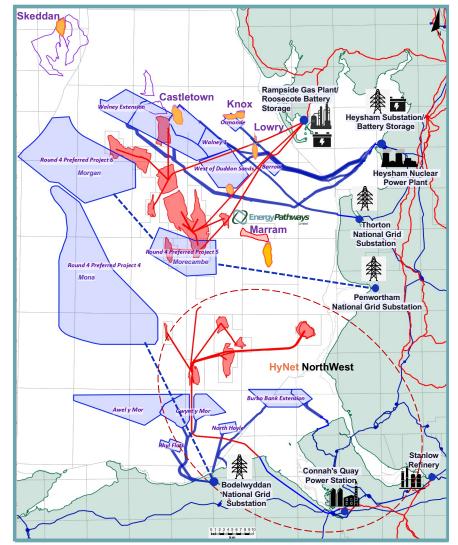
North-West England – large centres of population and industry

**100% ownership** SPA signed Sep 2021

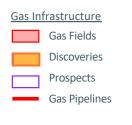
**Licence Operator**Government approval Mar 2022

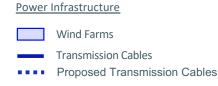
**Licence status** Work commitments satisfied 2022<sup>1</sup>

FDP status Submitted to Government regulator









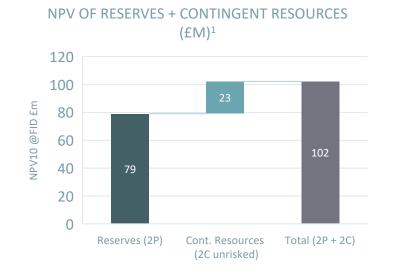
### Compelling and Robust Economics



### ROBUST, HIGH VALUE, RAPID RETURN PROJECT

- NPV10 =  $^{\sim}$ £102m<sup>1</sup>
- On admission RTO value ~£6.3m
- Payback = <12 months<sup>2</sup>
- IRR =  $70+\%^2$
- Net cash flow from first 2 years' production = >£100m<sup>2</sup>
- Break even gas price (NPV10=0) ~35p/therm<sup>2</sup>

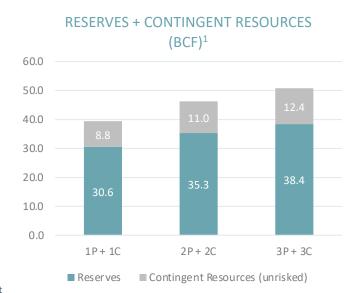
Note: Project valuation based on CPR 2P + 2C resources unrisked at spot April 2023 gas price  $^{\sim}114.8p/therm$  flat

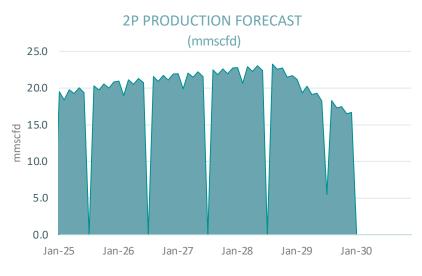




### CPR REPORT RESERVES AND RESOURCES<sup>1</sup>

- 53.0 BCF (Mid) Technical Recoverable Volume
- 35.3 BCF (2P) Reserves
- 11.0 BCF (2C) Contingent Resources
- Narrow Reserves range 30.6 38.4 BCF (1P-3P)
- Initial production rate ~20,000 mscf/d





<sup>&</sup>lt;sup>1</sup> Source: Reserves and Contingent Resources Unrisked Estimates from RISC Advisory CPR report

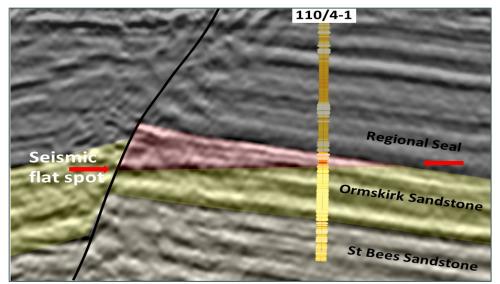
<sup>&</sup>lt;sup>2</sup> Source: EnergyPathways estimates



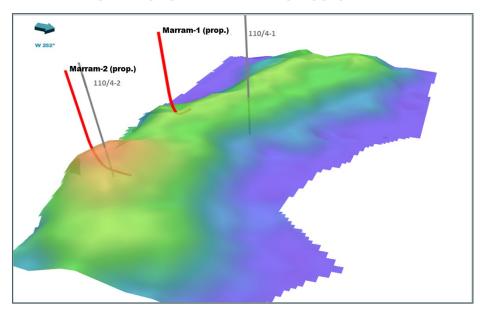
### HIGH CONFIDENCE IN RESOURCE VOLUMES AND DELIVERABILITY

- Good subsurface definition
- Simple tilted fault block structure
- Ormskirk Aeolian sandstone reservoirs with good porosity and permeability
- Nearby analogues with high recovery factors (~85%)
- Well and seismic data indicate gas-water contact
- Gas composition: very low CO<sub>2</sub> (0.02%), no reported H<sub>2</sub>S, inerts 43.6% N<sub>2</sub>
- Future energy storage potential

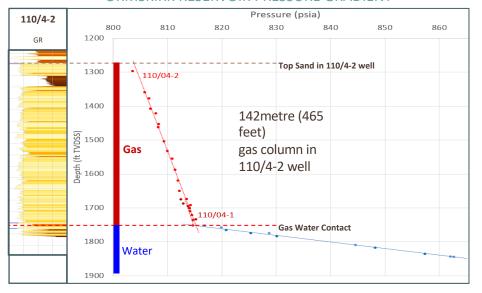
### SEISMIC LINE SHOWING FLAT SPOT CAUSED BY GWC



### 3D IMAGE OF THE MARRAM STRUCTURE



### ORMSKIRK RESERVOIR PRESSURE GRADIENT



### Marram Development Concept



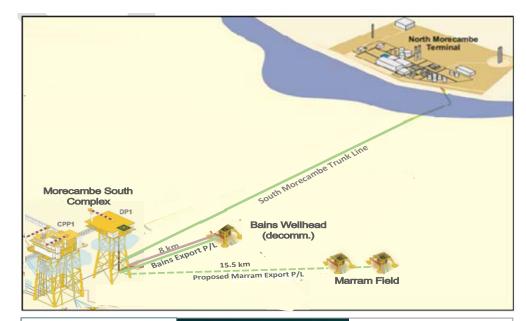
### SIMPLE LOW-COST TIE BACK DEVELOPMENT

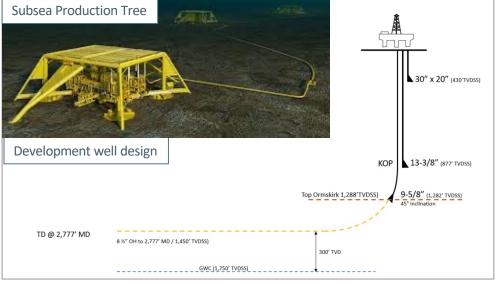
- Shallow water development (15-20m)
- 2 horizontal wells (900m TD, 300m horizontal sections)
- · Subsea tie-back, pipeline and umbilical
- Tie back to existing infrastructure (distance ~15-20km)
- Tie back optimisation various options to evaluate
- Concept Select Report submitted to NSTA Field Development Plan in Authorisation Phase
- Key vendors selected for FEED
- Development debt funding term sheet offer (~70% debt)
- Total Development Capex estimate ~£71m<sup>1</sup>
- Short cycle project: 6+ month FEED phase to FID, 12-18 month project execution phase<sup>1</sup>

### The Rt Hon. Tim Eggar

### **Chairman, North Sea Transition Authority**

"We are pleased EnergyPathways continue to further develop Marram which will add much needed gas and strengthen UK resilience in energy supply - now the key Government priority"





### Follow-up Gas Development and Energy Integration Growth



### **OPPORTUNITIES TO REPLICATE MARRAM**

- Castletown discovery (93 BCF)<sup>1</sup>
  - Peel, Doyle step out prospects (62 BCF)<sup>2</sup>
  - UK 33rd Licencing round application submitted
- Knox and Lowry discoveries (40 BCF)<sup>1</sup>
  - Straight to development
  - "Out of Round" application request submitted
- Target regional gas potential discoveries, exploration (~2,000 BCF)<sup>3</sup>

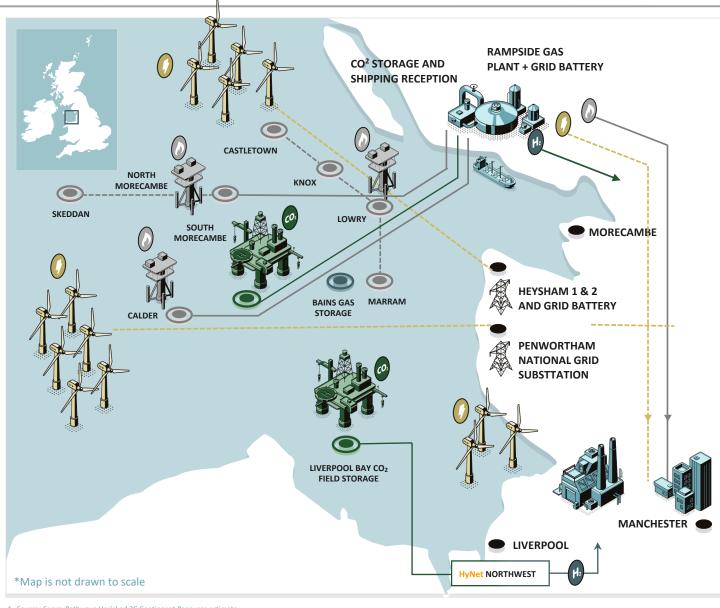
### UNIQUE LOCATION IN UK'S ENERGY TRANSITION

- Large scale wind farms
- Energy infrastructure: Morecambe gas, Calder gas, Renewable transmission
- CCS and hydrogen projects: Hynet North-West, Morecambe Net Zero
- Untapped tidal potential

### **ENERGY TRANSITION GROWTH OPPORTUNITIES**

- Renewables capacity will require intermittency back up for system resilience
  - Energy storage assets
  - Hydrogen production
  - Flexible powergen

### Key CO₂ — CO₂ CO₂ storage — H₂ Gas/H₂ storage — Natural Gas Gas field — Wind generation and transmission



- 1. Source: EnergyPathways Unrisked 2C Contingent Resource estimate
- 2. Source: EnergyPathways Total Unrisked Prospective Resource Best Estimate
- 3. Source: EnergyPathways: Total Combined Unrisked 2C Contingent Resource and Best Estimate Prospective Resource

### Use of Funds and Capital Structure



### **Use of Funds**

- Pre-development activities to FID development optimisation, FEED
- NBD Build gas resource base, evaluate energy transition potential
- Low corporate and admin costs nimble, focused management team

Category	£m	Comment
Gross Funds to be Raised	2.0	
Application of funds:		
Financing fees	0.4	RTO, Legal, accounting, brokers
Project costs	1.2	Marram Pre-FID costs, NBD
G&A / Corporate	0.4	18 months
Total Application of Funds	2.0	

### **Capital Structure**

- Pre-money valuation £4.3m
- 4p issue price
- Minimum raise £2.0m, market cap on admission £6.3m
- 85% existing shareholders locked in
- Management options vest conditional on key performance milestones
   50% FID; 50% First production (4p exercise price)
- Warrants for brokers and advisers (mostly 4p exercise price)

	SOI on admission	
	Number	%
EPL Directors and Management	29,296,867	18.55%
Other Existing Shareholders	78,619,692	49.79%
Fundraising	50,000,000	31.66%
Issued Share Capital	157,916,559	100.0%
Warrants	18,256,665	9.39%
Options**	20,371,243	12.90%
Fully Diluted	196,554,467	100.0%

<sup>\* =</sup> Capital structure based on £2.0m placing

<sup>\*\* =</sup> Board + Management Option Pool = 15% of enlarged Issued Share Capital. Estimated allocation at RTO of 12.9%. Management largely paid in shares to preserve cash for project

### **Investment Summary**



### Macro

- Domestic gas will have critical role in UK's energy security and net zero transition for decades to come
- UK energy prices to remain at elevated levels over medium term linkage to global LNG markets

### Marram gas project ~46 BCF

- Fully appraised gas field can be brought to market quickly
- Provides UK energy security and reduces carbon footprint
- Significant potential value for shareholders £100+million, high ROI and fast payback

### Follow up near term gas projects ~130 BCF

- Knox, Lowry, Castletown fields short cycle, high value potential similar to Marram
- Early mover position
- Well positioned with 33rd UK licencing round and "Out of Round" requests in progress

### Significant growth pathway in UK Irish Sea

- Unique region for energy transition growth opportunities
- Up to 2 TCF of overlooked gas resources identified
- Energy storage opportunities as renewable capacity expands
- Flexible power generation for energy system backup, hydrogen technologies to deliver net zero





Delivering Clean, Home-Grown Energy for Britain





### An Integrated Energy Transition Company....

### **VISION**

EnergyPathways plans to generate shareholder value by playing a pivotal role in providing the UK with energy security and net zero energy solutions

### EPL will:

- support UK energy security with new domestic gas production
- reduce UK's carbon footprint by displacing high emission imported LNG
- support UK's net zero transition by developing new low emission energy supply solutions

### **ESG ENERGY TRANSITION COMMITTEE**

- EnergyPathways plans to establish an energy transition advisory committee to advise the EnergyPathways board on energy transition investment strategy and opportunities.
- The committee members will comprise energy transition experts across clean energy technology, commercial, regulatory and capital market disciplines.
- The committee will play a vital role in mapping out the long-term growth trajectory for the company

## PATHWAY TO NET ZERO

# **NEW UK GAS SUPPLY**









**ENERGY STORAGE AND** 

- Long duration
- CH4 + CCS low cost





- Maximise value from