

#### **December / 2018**

# SHAREHOLDER MEETING



**Co-financed by the European Union** Connecting Europe Facility

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Leaders in energy infrastructure

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# Mr Graham Lyon Chairman

# Opening Address

## **Evening's Programme**



18.30hrs	Graham Lyon - Chairman	Opening Address
18.35hrs	John Wood - CEO	Strategic Vision Islandmagee Energy
18.55hrs	Arun Raman – NED	Global Gas Market Future Trading Outlook
19.15	Andy Duncan – CFO	<b>Project Economics &amp; Financing</b>
19.30	John Wood – CEO	Closing Remarks
19.35	Panel Session	<b>Question &amp; Answer</b>



# Mr John Wood Chief Executive Officer

# Strategic Vision & Islandmagee Energy

## **Corporate Strategy**





## **Project Lifecycle**







# Islandmagee Energy – Project 1



Phase	Description	Identificatio n	Concept Developme nt Study	Feasibility Study	FEED	FID	Enabling	Constructio n	Operations
1	Caverns 1&2	✓	$\checkmark$	~	✓ ■	Q2 19			
2	Caverns 3 – 8	✓	$\checkmark$	$\checkmark$	✓	Q4 20			
3	15+ Additional Caverns	~	0						
4	Twinning of SNIP	✓	0						
5	FSRU	✓							
6	LNG Combined Heat & Power	~							
7_	Hydrogen	$\checkmark$		×					
	<ul> <li>Production/Storage</li> <li>In Progress</li> </ul>	✓	Comple	te	Po	tentia	lly Ne	wCo's	9



# Mr Arun Raman Non Executive Director

# UK Gas Market & Future Gas Trading Outlook



Annual supply (bcm)





- >2 major variables in the supply stack:
  - ➤Shale gas
  - ➢Generic imports
- >Without shale, import dependency to rise to 70%

# **UK Gas Demand**



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#### Residential demand static

Power Gen increases from 2020 onwards due to new CCGTs
 New age for gas supplementing renewables

#### Gas Storage Projects In The UK – Existing & Planned





Existing		Leaders in energy infrastructure			
Facility	Owner	Capacity Mcm	Status	nTPA	
Rough	Centrica	3,310	Decommissioned	Yes	
Aldborough	SSE	300	Active	Yes	
Hatfield Moor	Scottish Power	70	Active	No	
Holehouse Farm	EDF	-	Mothballed	No	
Holford	EON	200	Active	No	
Hornsea	SSE	300	Active	Yes	
Humbly Grove	Petronas	300	Active	No	
Hill Top farm	EDF	50	Active	No	
Stublach	Storenergy	200	Active	No	
TOTAL		1,420	70% Capacity F	Reduction	

Total existing storage capacity: 1.4% of annual UK gas demand
 Total existing storage capacity available to third parties: 0.60% of annual UK demand

Planned					
Facility	Owner	Capacit y <sub>Mcm</sub>	Plannin g	FEED	FID
Islandmagee Ph 1&2	Infrastrata	450	Yes	Q4 2018	Q2 2019
Gateway	Stag Energy	1,500	Yes	Х	Х
Deborah	ENI	4,600	Yes	Х	Х
King Street	King Street Energy	300	Yes	Х	Х
Preesall	Halite Energy	600	Yes	Х	Х
Saltfleetby	Wingaz	800	Yes	Х	Х
Whitehill	EON	400	Yes	Х	Х
Baird	Centrica	2,000	Yes	Х	Х
Bains	Centrica	2,000	Yes	Х	Х

## Capacity charge for gas storage – Intrinsic element

Sinfra Strata



# Capacity charge for gas storage – Extrinsic element





# **Key Highlights**



- UK to continue being reliant on gas as the most important energy source
- > UK gas market heavily reliant on imported gas
- > Flexibility in the system exists but it is a dual edged sword
- With flexibility comes volatility
- > Islandmagee provides short term security of supply and peak-saving
- > Designed to benefit from within day / day ahead volatility
- > Effectively the marginal therm in the system





# Mr Andy Duncan Chief Financial Officer

# Project Economics & Financing

#### **Islandmagee Project Cash Flows**





## **Islandmagee Project Returns**



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2.0000	No.
Equity IRR	21.6%
NPV10	£141.6m
NPV 8	£222.6m
Undiscounted Revenues	£2.67 bn
Undiscounted FCF	£1.68 bn

Project Assumptions include: 26p/therm Gas Storage Fee (Indexed), 75% Opex reimbursement, 65% project finance leverage with a 3+10 year tenor and a 40% balloon, 11.6p share assuming 100% ownership of project.

THESE ARE UNAUDITED MANAGEMENT CALCULATIONS ONLY

# **Other Corporate Initiatives**



- **Investor Relations**
- **Corporate Governance**
- "Doing the right thing" **Treasury & Financial Risk** Management
- Staffing & Resources Planning
- **IT & Data Security**
- **Policies & Procedures**





# Mr John Wood Chief Executive Officer

# Closing Remarks



INCREASING GAS DEMAND	Gas Demand is increasing globally year on year. In Ireland, growth of 12.5% by 2026 is expected, perhaps as high as 23%.
FEED FINISHED	The FEED (Front End Engineering Design) has been finished, coming in at £65m under original modelling for 8 caverns
CONSTRUCTION READY	The project has all the required permits and licences to commence construction works. Enabling works planned for January 2019
FUNDING	Funding discussions to secure equity funding are well advanced, expect to provide update in Q4 2018
DURATION	Cavern life span of 40 years plus, giving long steady low risk income stream and attractive economics.
NEW CONCEPT STUDIES	Additional concept studies to look at more caverns and provide a route to ship gas at volumes required to replace capacity lost by Rough
INCREASING SHAREHOLDER VALUE	Our aim is to turn income generating & have increased out portfolio to more than the Islandmagee project in 2019



# Question & Answer Session



Mr Graham Lyon Chairman



Mr John Wood Chief Executive Officer



Mr Arun Raman Non Executive Director



Mr Andy Duncan Chief Financial Officer





