

# Promoting choice and value for all gas and electricity customers

**City Briefing** 

# Offshore Transmission

**April 2009** 

10.45am	Registration	
11.00am	Main Presentation	
1.	Welcome	Rob Winchester, Partner, Ernst & Young
2.	Introduction	Alistair Buchanan, CBE, Chief Executive, Ofgem
3.	Regime Overview	Robert Hull, Director, Regulatory Services, Ofgem
4.	Tender Process	Stephanie McGregor, Associate Director, Ofgem
5.	Investment Characteristics	Lorna Shearin, Managing Director, RBC Capital Markets
12.30pm	Panel Q&A	
	Closing Comments	
	Buffet Lunch	

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# Promoting choice and value for all gas and electricity customers





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#### Ofgem – Working for today's consumers & looking ahead for tomorrow's consumer

- Project Discovery
- "RPI-X@20 Project": first review in 20 years on the way we charge for pipes and wires
- Retail Markets Probe the Remedies: to improve consumers' experiences
- Building a new offshore wind regime
- Delivering new Networks access regime
- Governance Review: unblocking the system of red tape
- "Lens Project": Ofgem's long term energy networks scenario project

Forward looking projects to protect and promote GB consumers' interests



# Promoting choice and value for all gas and electricity customers

Section 3

# Regime Overview

Robert Hull, Director, Regulatory Services



## **Background and Policy Context**

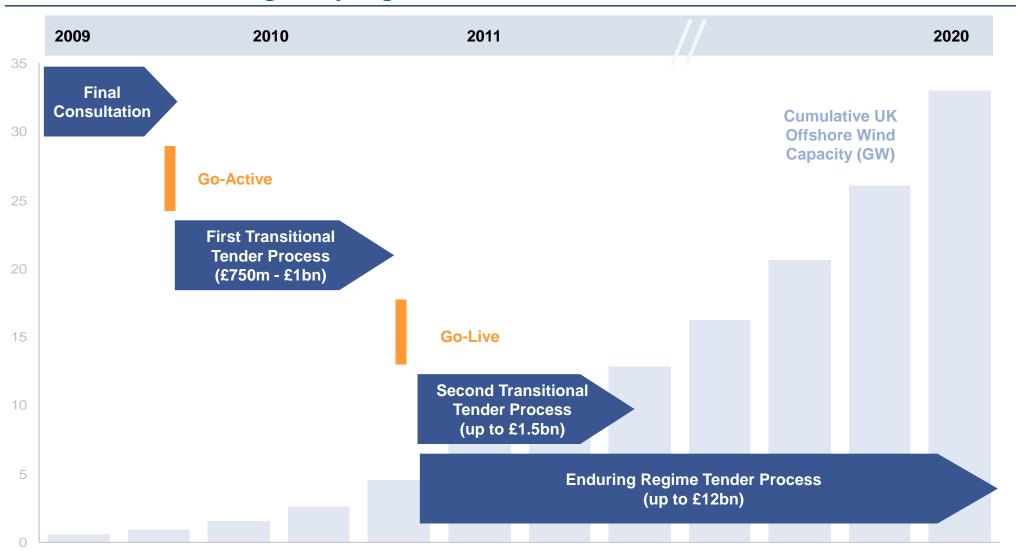
- Offshore Wind:
- Major contributor to UK's 2020 renewables target
- UK already no. 1 in offshore wind 598 MW installed
- Plans for up to 33 GW of offshore wind under Rounds 1, 2 and 3

- Strategic Environmental Assessment (SEA) and Round 3 Timetable:
- Environmental Report consultation April 09
- Government Decision on SEA Spring 09
- Crown Estate finalises zone awards end 2009
- Construction on first projects 2014 onwards

- New Offshore Transmission Regime:
- Key enabler for offshore wind and delivery of 2020 targets
- Developers need a grid connection they can afford – on time
- Up to £15 bn of new offshore grid needed
- Regulated regime



### **Overview of Offshore Regulatory Regime Timeline**





#### What is a transitional project?

- New regime needs to be applied to:
  - Projects under construction
  - New projects
- Three classifications for transitional projects:

Projects constructed by 'Go Active'

Projects not constructed, but achieve financial close by 'Go Active'

Projects that achieve financial close after 'Go Active' but before 'Go Live'

- Go Active Expected 24 June 2009
- Go Live Expected June 2010
- Offshore transmission will become a prohibited activity without a licence

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#### Offshore Transmission - The new regime

- Generator seeking connection triggers a competitive tender process
  - Winning bidder is granted licence that guarantees a 20 year revenue stream
  - Limited regulatory intervention
  - Long term low risk regime
- OFTO appointed by competitive tender process
  - Tenders run by Ofgem
  - Delivering low cost, timely and fit for purpose connections, with flexibility for the future
- Opportunity for new entrants
- Final consultation underway on regime

### **Stages to Overall Offshore Transmission Regulatory Regime**

### Transitional Projects (first tender summer 2009)

- Already being built by the generator / developer
- Ofgem will conduct a cost assessment exercise to establish the transfer value of these assets (assessed pre- and post-construction)
- Potential OFTOs will bid to own, finance and maintain the transmission assets
- Assets will be transferred to the OFTO once commissioned

# Enduring Projects

- OFTO will <u>design</u>, finance, <u>construct</u>, own and manage offshore transmission assets
- Will apply to some Round 2 projects, projects recently announced in Scottish Territorial Waters, and projects leased under Round 3



### Low Risk Regulatory Regime for Transitional Projects....

- 20 year revenue stream from GBSO
- No automatic periodic regulatory review
- No construction, energy or stranding risk
- Low counterparty risk
- Well defined and proven regulatory regime extending onshore precedent
- Well defined tender process

### .....Due to Incentives, Adjustments and Upsides

- Availability incentives and penalties both capped at 10% of revenue
- Post construction revenue adjustments to reflect final transfer value
- Revenue fully indexed to RPI
- Cost pass through and pre-defined adjustments for business rates, Ofgem costs, leases, code changes
- Pass through of extra decommissioning costs if change of law
- Incremental capex up to cumulative 20%
- Possible extension or re-tender at the end of the revenue stream
- Opportunities for upside

### **Key Parties**



Regulator of the gas and electricity markets in Great Britain

**OFTO** 

Holder of a regulated licence for the offshore transmission assets

Department of Energy and Climate Change

Responsibility for the UK's renewable energy strategy

#### **Generators**

Owners and developers of offshore wind farm projects. User of the assets owned by the OFTOs



### Role of Great Britain System Operator ('GBSO') vs. Transmission Owners

- 3 existing licensed transmission owners
- Regulated through 5-year price control periods
- Nearly £4 billion of new onshore investment allowed in current regulatory period









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#### **Primary Legislation**

- Sets overall industry framework
- Establishes Ofgem as independent regulator with statutory powers and duties

#### Licences

- Setting detailed obligations for licensees in generation, transmission, distribution, supply
- Allow Ofgem to regulate monopoly network companies



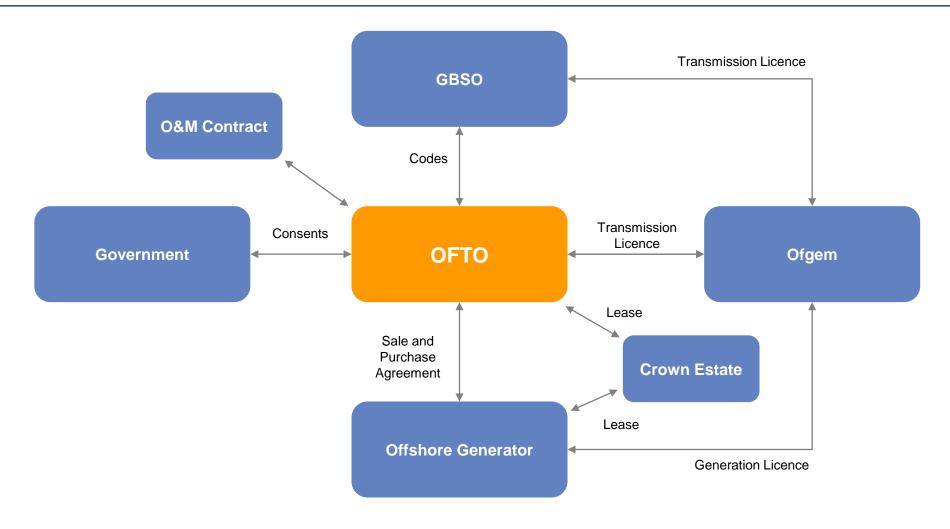
#### **Industry Codes and Standards**

- Govern detailed commercial arrangements between industry parties
- Defined responsibilities and change control procedures

#### Ofgem's role

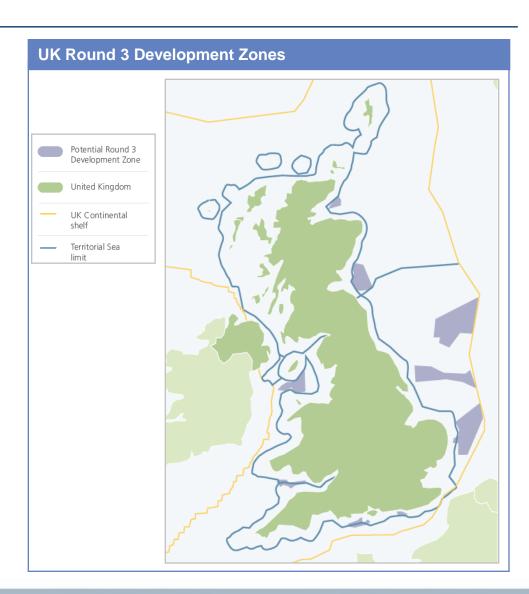
- Protect existing & future consumers
- Promotes competition in markets
- Regulates monopoly networks through incentives

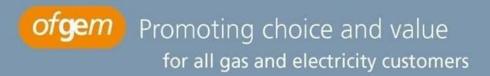
#### **Offshore Transmission Commercial Structure**



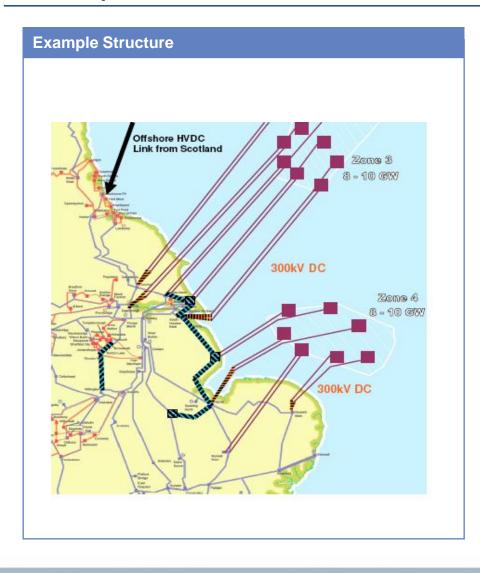
## **Development of offshore networks in Round 3**

- Regime and tender process designed to allow flexibility for the future
- GBSO required to provide enhanced network planning information
- Developers can recover efficient preconstruction costs
- Two possible approaches:
  - Point to point connections
  - Integrated offshore transmission networks





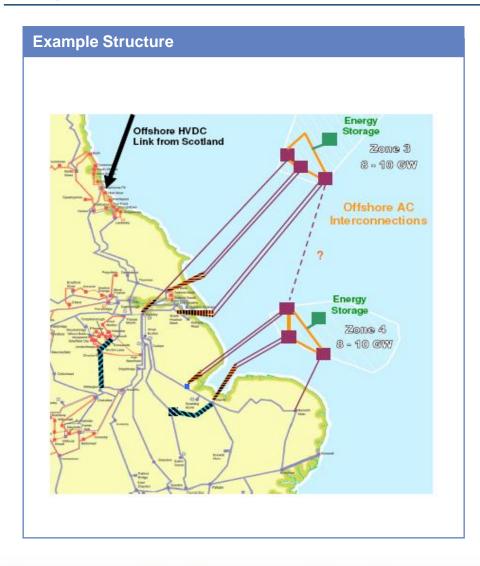
### **Point-to-point tenders**



- Generator specific connections
- Avoids delays
- High capacity, low redundancy HVDC connections may minimise network costs
- Phased connections may be required by generators



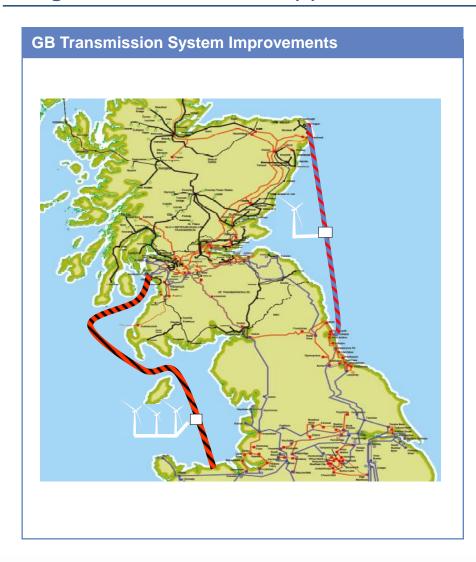
### **Integrated network tenders (1)**



- Scope for offshore generators to combine connection applications due to:
  - Crown Estate approach to leases
  - Strong commercial incentives
- Scope for new offshore inter-network connections to be developed by an existing OFTO (up to 20% additional cost before further tender triggered)



### **Integrated network tenders (2)**



- Scope for offshore generator connections to have more than one onshore connection point
  - Subject to competitive tender process to select OFTO
  - Offshore transmission network will form part of GB transmission system once contracted

## **Key Benefits of the Regime**

- For Generators
  - Delivers cheaper and more timely offshore grid connections
  - Focused on generator's requirements
  - Flexibility for future offshore generation needs
- For OFTOs
  - Encourage innovation through competition and enable new entrants to compete in the market
  - Long term regulatory certainty and light-handed regulation
  - Low risk OFTO protected against generator failure and credit risk (and construction for transitional projects)



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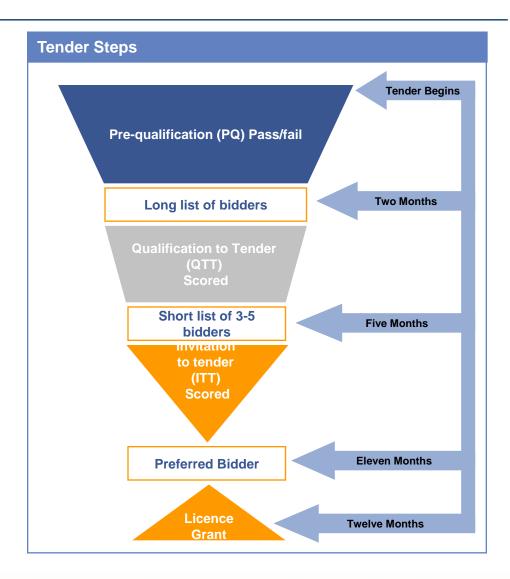


#### **Aims of the Tender Process**

- Deliver fit for purpose offshore transmission infrastructure
- Provide certainty and best value to consumers through the competitive process
- Attract new entrants to the sector

#### **Tender Process**

- Final consultation on tender process, draft tender regulations and associated tender documentation underway
- Key issues consulted on include:
  - Refinements to design of tender process (PQQ, QTT, ITT)
  - Development of a model sale and purchase agreement (SPA)
  - Updated selection criteria and process for each stage of the tender process



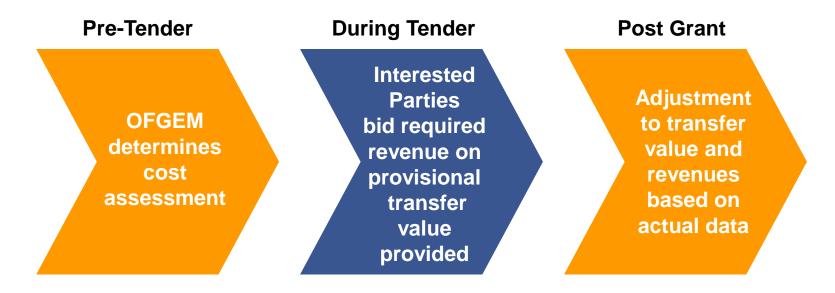
### **Steps in Tender Process**



#### **Bidders** Ofgem Initial pass/fail screening of Consortium structure, size and bidders, based on bidder capability characteristics & track record Per project, initial approach to Assess proposed approach per financing, asset management and project & rank bidders operations Detailed proposals, including **Evaluation of detailed project** proposals and binding financial SPA, financial and management proposals proposals Re-submission of binding **Evaluation of financial proposals** financial proposals only Finalise funding positions & SPA **SPA** terms finalised with parties terms

### **Ofgem's Approach to cost assessments**

- Working with generators to determine the provisional transfer value
  - Cost assessments completed before the process starts
- Adjusted, formal cost assessments completed after commissioning of assets
  - Enable pass through of efficient costs actually incurred
- Assess whether the project has been / will be delivered in an economic and efficient manner





## **Key Points of the Tender Process**

PQ	Generic response
QTT	Bids for individual projects
	Bids for individual projects
ITT	Dataroom available
	Variant bids for multiple project accepted

- Tender process seeking to minimise time between licence grant and asset transfer
- Approach to model sale & purchase agreement aimed at:
  - Achieving generic terms of transfer agreed with generators by QTT stage
  - Enabling structured dialogue to achieve agreement by end of ITT



## **Selection Criteria**

	PQ	QTT	ITT
Criteria / Methodology	Pass / Fail	Scoring/evaluation of initial approach	Scoring/evaluation of firm and final approach
Financial (60%)	Economic and financial standing	Economic and financial standing Economic proposals	Revenue stream Financing and commercial structure SPA
Non-financial (40%)	Organisation, ownership and governance Managerial and operation capability	Initial Approach:  Management  Legal  Operational	Detailed Plans: Management, Legal and Operational Transition plan

### Who are Ofgem looking for?

- Strong infrastructure/asset managers
- Financially robust parties, with good standing
- Experienced at managing and contracting with parties
- Comfortable with long term asset management
- Solid track record managing operating risks and obligations



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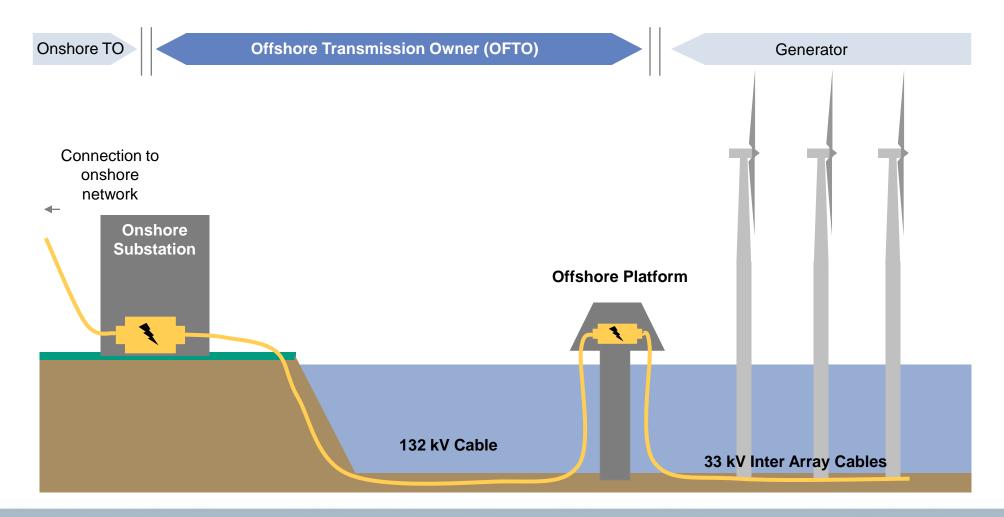
Section 4

# **Investment Characteristics**

Lorna Shearin, Managing Director, RBC Capital Markets

#### What Assets Will the OFTO Own?

Transmission assets between connection points: Onshore TO and offshore generator



## What will be the ongoing responsibility of the OFTO?

O&M for cable, substation and offshore platform

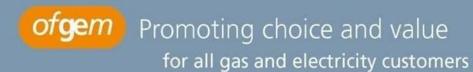
**Risk Management** 

**Operational Performance** 

Compliance

**Decommissioning** 

Future capacity development (up to 20%)



## **Likely Transitional Projects**

#### Projects likely to qualify for First Transitional Tender (£750m - £1.0bn)

	Project	Developer	Size (MW)	Exp. Completion
1.	Barrow	Dong Energy / Centrica	90	Operating
2.	Robin Rigg	E.ON	180	Jul 09
3.	Gunfleet Sands I & II	Dong Energy	172	2009
4.	Thanet	Vattenfall	300	*
5.	Greater Gabbard	SSE / RWE Innogy	504	Mar 11
6.	Ormonde	Vattenfall	150	Nov 10
7.	Walney 1	Dong Energy	178	*
8.	Sheringham Shoal	Statoil Hydro / Statkraft	315	Jun 10

#### **Projects that may qualify for Final Transitional Tender (up to £1.5bn)**

	Project	Developer	Size (MW)
9.	London Array	E.ON / Dong / Masdar	1000
10.	Lincs	Centrica	250
11.	Gwynt y Mor	RWE Innogy	750
12.	Docking Shoal	Centrica	500
13.	Race Bank	Centrica	500
7.	Walney 2	Dong Energy	183

<sup>\*</sup> Awaiting date from developer



### **Investment Highlights – Transitional Process**

# Opportunity to enter UK transmission

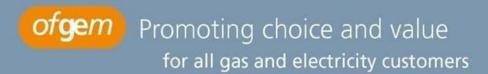
- Rare opportunity to enter the UK transmission sector for new entrants
- Strong political and regulatory support for UK offshore transmission

# Robust and transparent competitive process

- Structured to ensure fair and transparent process
- Qualification stages followed by ITT stage with data room access

#### Long term opportunity

- Up to £12 billion of new transmission assets
- Early participation will provide valuable experience for the enduring regime



#### **Investment Highlights – Transitional Process**

Long term revenue stream from GBSO

- 20 year regulated revenue stream
- Revenue stream not dependent on utilisation of transmission capacity or wind farm performance

Low risk assets

- No construction risk for assets in the transitional regime
- Limited ongoing O&M requirements

Opportunities for upside

- Efficiency savings, lower costs
- Revenue from additional services increased capacity, non-regulated services, reactive power, availability performance
- Positioning in market for major future growth

### Allocation of key risks between stakeholders

#### Generator

- Turbine failure
- Wind unavailability
- Energy risk (price, volume)
- Network specification
- Decommissioning of turbines

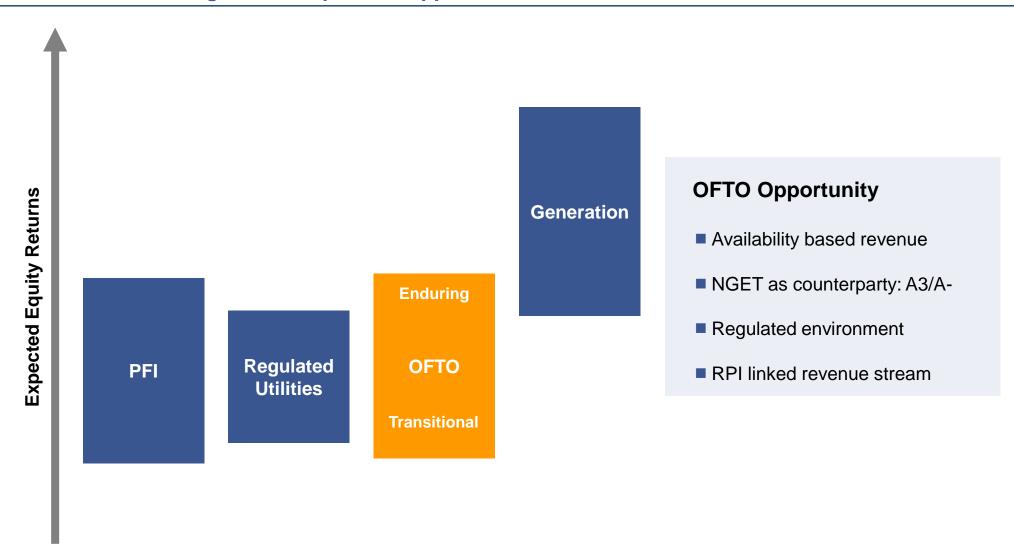
#### Consumers

- Generator insolvency or abandonment
- Credit risk of non-payment of charges by offshore generator

#### **OFTO**

- Operating risks
- Financing risk
- Decommissioning of transmission asset
- Construction (for enduring regime)

### **Potential Returns Against Comparable Opportunities**



#### **Debt Market - Offshore Transmission Opportunity Expected to Appeal to Lenders**

- Good level of interest expected from debt providers for transitional regime due to:
  - 20 year regulated revenue stream
  - lack of construction risk and low operational risk
  - established insurance market
  - limited/no exposure to wind farm revenue or operational risk

#### **Tender Process**

# Informal Registration of Interest Expected May 2009

 Express interest in investing in OFTO opportunity

# Prequalification Stage (PQ) (Pass/Fail) Expected July 2009

- Form bidding consortia
- Preferred level of investment
- Basic corporate information
- Ability to raise finance
- Previous infrastructure expertise

# Qualification to Tender (QTT) (Scored) Expected September 2009

- Ability to supplement consortia between PQ and QTT
- Determine target assets
- Proposed approach to funding
- Required investment return
- OFTO management approach

### **Near Terms Steps for Investors**

- Review the March consultation documents / provide feedback
- Explore consortia with the potential to meet the selection criteria, building in a strong infrastructure / asset management element
- Consider asset appetite and funding approach
- Develop a strategy for demonstrating satisfaction of the PQ and QTT selection criteria
- Register your interest with us and arrange a meeting if needed



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### **Panel Q&A**

Alistair Buchanan, CBE	Chief Executive	Ofgem
Chris Barton	Director, Renewable Energy Strategy	Department of Energy & Climate Change
Robert Hull	Director, Regulatory Services	Ofgem
Stephanie McGregor	Associate Director	Ofgem
Lorna Shearin	Managing Director	RBC Capital Markets
Rob Winchester	Partner	Ernst & Young

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