

# **Regulatory Briefing**

**Capital Markets Day** 

17 October 2013



### **Agenda**

Andrew Koss – Director of Strategy Damien Speight – Head Trader

**Renewables Obligation** 

**Contracts for Difference** 

**Levy Control Framework** 

**Capacity Mechanism** 

**Implications for Drax** 



## **Renewables Obligation (RO)**

# Drax announced conversion plans and financing predicated on three units under the RO scheme

#### **Support mechanism for renewables since 2002**

Well established, functioning market

#### Closes to new projects in March 2017

Replaced by CfDs<sup>(1)</sup>

## 2014 to 2017 – new projects eligible to apply for either RO or CfD

#### For biomass conversions:

- Support deemed to start in 2007 RO ends 2027
- Each unit conversion a separate project

#### For Drax:

- First converted unit will remain in the RO
- Support grandfathered at 1 ROC<sup>(3)</sup> until 2027
- Subsequent conversions before 2017 may be RO or CfD
- Any units converting after 2017 will be CfD



"Conversion (...) to sustainable biomass offers a quick, costeffective way to rapidly decarbonise electricity generation in the short to medium term, as well as contributing to security of supply"

EMR<sup>(2)</sup> Delivery Plan (July 2013)

- (1) Feed-in Tariff with Contracts for Difference
- (2) Electricity Market Reform
- (3) Renewables Obligation Certificate

### **RO – Economics**

# Strategic objective to contract biomass on long-term basis

# Converted units have an inbuilt (imperfect) "ROC hedge" of fuel exposures

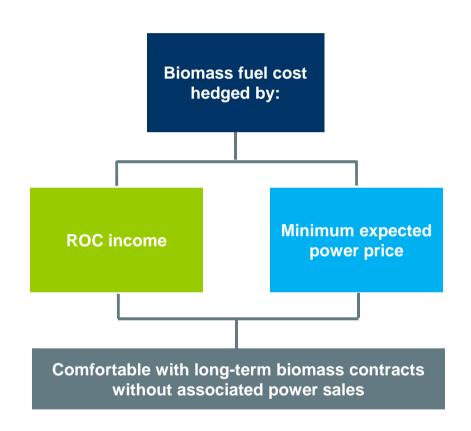
• Absent in coal-fired generation

## Analysis of biomass generation at 1 ROC with power price range

With minimum gas prices and a value of carbon
 high confidence that prices will be >£30/MWh

#### **Illustrative Spread Analysis**

Margin Calculation	£55/MWh Power Price	£30/MWh Power Price
Income (per MWh)		
Power	55	30
1 ROC	45	45
1 LEC	5	5
Cost (per MWh)		
Biomass <sup>(1)</sup>	(80)	(80)
Bark Spread	25	nil



(1) Biomass cost based on £8/GJ and standard coal plant efficiency

### **RO – Pros and Cons**

Advantages	Disadvantages
<ul> <li>✓ Well established and functioning market</li> <li>✓ Potential to benefit from positive power price movements (e.g. capacity squeeze)</li> <li>✓ ROC support levels for conversion now set and</li> </ul>	<ul> <li>Exposure remains to power price falls, driven by gas prices or removal / re-profiling of the carbon price floor</li> <li>Some political risk remains</li> <li>Buying power rests with the major suppliers, who have</li> </ul>
grandfathered until biomass support expires in 2027  ✓ Easy for suppliers (i.e. Haven) to manage on an	a choice to purchase ROCs (at a discount) or pay the buy-out
annual basis and generates positive working capital for suppliers	Creates working capital issues for generators, as payments typically settled in August following the end of the compliance year
✓ ROC price indexed to RPI	
✓ Potential to benefit from higher recycling fees if there is a shortage of ROCs in any year	

#### DECC now consulting on measures regarding the transition from RO to CfD

- RO setting may move to February each year from the previous September more accurate RO setting
- Fixed price ROCs may be introduced from 2017

## CfDs - Background

# Future support regime for low carbon generation

#### **CfD** characteristics

- Private law contract
- Term of support limited to 2027 for converted units
- Designed to deliver stable revenue through difference payments to sales in power market

#### **Draft strike prices published June 2013**

- Set at a discount to RO to reflect lower risk
- Consultation underway

Payments under CfD funded through a levy on electricity suppliers

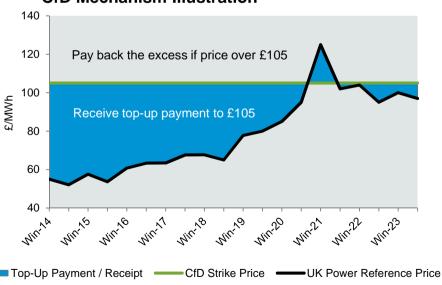
Contract terms under development by DECC in close consultation with industry

#### **Draft CfD Strike Prices**

£/MWh <sup>(1)</sup>	2014-15	2015-16	2016-17	2017-18	2018-19
Onshore Wind	100	100	100	95	95
Offshore Wind	155	155	150	140	135
Biomass Conversion	105	105	105	105	105

(1) In 2012 prices and subject to consultation

#### **CfD Mechanism Illustration**



## **CfDs – Investment Contracts and Enduring**

#### DECC FID<sup>(1)</sup> CfD Timeline



#### Early CfDs - run under the FID process

- Known as 'Investment Contracts'
- Drax second and third unit conversion being considered by DECC for investment contracts
- DECC to publish final strike prices December 2013
- Award dependent on specific selection criteria, if total eligible projects exceed budget capacity
- Effectiveness conditional on approval by Parliament of Energy Bill and EU approval under state aid provisions

#### **'Standard' CfDs – the enduring CfD process**

- Targeted for applications in H2 2014
- Drax units not operating under RO or contracted under FID CfD – eligible to apply
- Initially, CfDs will be allocated with strike prices that are set administratively by Government
- Competitive process to be instituted if strong investor interest relative to budgets

### CfDs – Pros and Cons

#### Advantages

- ✓ Bilateral contract with a Government owned counterparty
- ✓ Reduced political risk
- ✓ Provides revenue certainty and therefore protection against downside power price scenarios – positive ratings impact
- ✓ Working capital benefits difference payments payable shortly after generation

#### **Disadvantages**

- × Caps upside from high power prices
- x Still exposed to fuel price volatility, including foreign exchange movements

# Clarity on regulatory position likely to happen in stages

#### **CfDs** could be an attractive option for Drax

- Reduce political risk
- Provide more earnings / cash certainty

#### But subject to outcome of:

- Price and contractual consultations
- Competitive process

#### Other key issues still to be resolved

- Payment mechanics
- Change in law provisions
- Pass through of industry charges
- Consistency with RO on sustainability issues
- Termination and suspension rights
- Allocation process and triggers for auctioning
- State aid approval

## **Levy Control Framework (LCF)**

#### Covers RO, CfDs, FiT<sup>(1)</sup> but not capacity payments

Sets a cap on the impact of renewable support schemes on consumer bills

#### **Flexibility provisions**

• 20% headroom to total cap allowed on annual basis

#### Biomass projections within cap

- Priority on low cost projects
- Under National Grid scenarios, deployment of 2.6-4GW of biomass conversions consistent with LCF assumptions and meeting 2020 targets

#### Worst case – LCF under pressure and DECC implement constraint management

- Limit number of FID CfD awards?
- Force enduring CfD into competitive auction?
- RO banding review to reduce "ungrandfathered" support?

#### LCF- Upper Limits on Spend (2011/12 Prices)

£bn	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20	2020-21
Renewable Support	3.3	4.3	4.9	5.6	6.5	7.0	7.6

## **Capacity Mechanism**

#### Capacity mechanism being developed under EMR

Ensure security of supply in the face of falling reserve margins

#### **Proposed process now published**

- Two auction processes to be held four years ahead and one year ahead of delivery year
- All generators mandated to go through pre-qualification process, but are not required to bid
- New capacity providers bid volume into an auction four years ahead of the delivery year
  - e.g. 2014 auction for delivery in Winter 2018/19
- RO or CfD-accredited plant not eligible to participate
- Existing capacity providers able to bid for one year contracts

#### Proposals moving in the right direction, but economics not currently compelling

- High penalty regime means risk / reward balance currently unattractive for Drax coal units
- Caps on auction bids unlikely to attract the new build capacity envisioned by DECC, particularly CCGTs

We will continue to review proposals but work to do to create value for Drax

## **Implications for Drax**

#### **Capacity Mechanism**

RO and CfD-accredited units excluded from capacity mechanism

Work to do to create value for Drax

#### RO

Plans for conversion developed and financed under the RO

**Investment case remains strong** 

#### **CfDs**

Potential upside from CfDs if risk / return balance attractive vs. RO





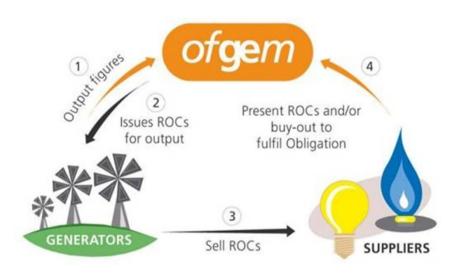
## **Appendix: RO Mechanics**

#### Obligation on suppliers – set annually by DECC

Includes fixed 10% headroom

## **Suppliers present ROCs to demonstrate compliance**

- Where insufficient ROCs presented, suppliers pay a penalty – the buy-out price
- Buy-out fund is recycled to suppliers who presented ROCs



#### **Buy-out Price and Recycle Values**

Obligation Period	Buy-out price per ROC	Recycle value per ROC
2010-11	£37	£14
2011-12	£39	£3
2012 -13	£41	£4
2013 -14	£42	TBC – Aug 14