

Capacity Market Operational Coordination Event



Transitional Arrangements 2 June 2015

Agenda

Session	Timings
Welcome and Introductions	9.30
Introduction to the Transitional Arrangements	
Prequalification	
Assessment	
Auction	
Break	10.30
Post Auction and Agreement Management	
Delivery Year	
Q&A and Close	



Introduction to Transitional Arrangements

James Greenhalgh

What are the TAs

Specific Auctions for DSR and small scale generation for Delivery in 2016 and 2017 ahead of the first full Delivery Year.

Sector Aims

Help grow the DSR and small scale generation sectors prior to the first Delivery Year by:

- Limiting risk by reducing entry cost
- Encouraging enterprise
- Building confidence
- Providing Experience of Capacity Market Processes

Government Aims

Learn from the TA on:

- The current composition of DSR in GB
- How the DSR sector responds to the TAs
- Inform thinking over potential future changes to regs/rules
- The readiness of the DSR sector to move onto the enduring Capacity Market Terms.

Who can take part?

Eligible

- Non CMRS generation under 50MW
- Demand Side Response (including embedded generation)
- Electricity storage under 50MW
- Participation in Balancing Services*
- New and existing resources permitted

Ineligible

- Capacity receiving low carbon support
- Participants in UK's CCA Storage commercialisation programme
- Capacity below 2MW (possible to aggregate to qualify)
- CMUs with CM agreement from T-4 auctions.
- Interconnectors

* Units can move from DSBR to Transitional and vice versa – but are not expected to participate in both in the same year.



Operational Plan

- Regulations & Rules due to be finalised and published 4 weeks before the Prequalification window opens
- Prequalification window open for 4 weeks (so Rules are available 8 weeks before application "deadline")
- T-4 and DSR Transitional Auctions (TA)
 - Processes run in parallel through Prequalification and up to the completion of Tier 2 Appeals (DSR can prequalify for both auctions)
 - The DSR TA process is then halted until the after the final T-4 auction results are published (DSR cannot obtain Capacity Agreements in both auctions)
 - DSR which is successful in the T-4, but which also pre-qualified for the DSR TA, will be removed from the DSR TA process

2015 TA Timeline – Key dates

nationalgrid

When	What	Who
By 1 st June	Submit Electricity Capacity Report to SoS	Delivery Body
Late June	Publication of final CM Rules	Ofgem
Late June	CM Pre-qualification System available to applicants	Delivery Body
29 th June	Publish "Formal" Auction Guidelines (T-4 & TA)	Delivery Body
20 th July – 14 th Aug	Prequalification window open for Applicant submissions (T-4 & TA)	Applicants
14 th Aug – 25 th Sept	Assessment of Prequalification submissions (T-4 & TA)	Delivery Body
25 th Sept	Prequalification Results Day (T-4 & TA)	Delivery Body
5 th Jan 2016	Publish "Final" Auction Guidelines & Bidder details (TA only)	Delivery Body
13 th Jan 2016	Run "Mock" Auction (TA only)	App / DB
26 th – 29 th Jan 2016	Run "Full" Auction and notify bidders of provisional results (TA only)	App / DB
2 nd Feb 2016	Auction Monitor report submitted to SoS (TA only)	Auction Monitor
10 th Feb 2016	Auction Results Day (TA only)	DB / DECC
26 th Feb 2016	Issue Capacity Agreements (TA only)	Delivery Body



Questions?



Prequalification

Robyn Jenkins



Step 1

Registration

Registering for CM Prequalification

High Level Principles

- All Companies that wish to participate in either the Capacity Market or Contracts for Difference will need to register
- Registration of the company and a Portal Main Administrator is necessary to ensure a publically recognised officer of the company has approved the registration
- Thereafter other "company users" of the Portal may be added by the proposed main administrator
- Companies registered during 2014 will not need to register again
- Registration is the same for T-4 and Transitional

Registering for CM Prequalification

- Each Company needs to nominate at minimum
 - Company Secretary/Director (Authorised Person) somebody recognisable in the public domain –
 - Main Portal "Company Administrator"
- Proposed "Company Administrator" fills in online form to nominate themselves. Also completes details of Authorised Person
- Registration form is generated and needs to be printed on company letter headed notepaper, signed, scanned uploaded to portal
- NG cross-checks company details against public records and upon successful cross-check will allow full log-in details to be created by both parties
- All log-ins will be password and PIN protected

Registration Form

Company Section			
Company Name *		Company Registration Number	
Company Registration Type *	CM	Address 1 *	
Address 2		Address 3	
City/Town *		Post Code *	
Country *	United Kingdom		
Authorised Person Section			
First Name *		Last Name *	
Landline Number		Email Address *	
Role/Position *]	
	Copy Address details	Address 1 *	
Address 2		Address 3	
City/Town *		Post Code *	
Country *	United Kingdom 🔻	-	
Main Company Admin User Section			
First Name *		Last Name *	
Landline Number]	
Country *	United Kingdom	Country Code * 44	
Mobile Number *		Confirm Mobile Number *	
Email Address *		Confirm Email Address *	
	Copy Address details	Address 1 *	
Address 2		Address 3	
City/Town *		Post Code *	

Cancel



Creating A Prequalification Application

Prequalification Overview



Key Prequalification Dates for 2015

- System Available late June 2015
 - Applications can start to be built as soon as system is available
- Prequal Submission Window Opens: Monday 20 July
- Prequal Submission Window Closes: 5pm Friday 14 August
- Prequal Results Day: Friday 25 September

Prequalification Overview



- Prequalification is required to "verify" on paper that potential sources of capacity are genuine physical resources
- Key considerations for a Prequalification Application
 - The Applicant must be either the <u>legal owner</u> of the asset or its <u>despatch controller</u> (with agreement from the legal owner)
 - Must be accompanied by <u>declarations signed by two</u> <u>directors or officers</u> of the Applicant (where the applicant has two directors)
 - Applications must be submitted by the end of the Prequalification Window currently planned for <u>5pm on Friday</u> <u>14 August</u>
 - Can apply for TA and T-4 but must withdraw from the TA if you secure a T-4 Agreement

What's Required in an application

- Submissions during Prequalification must include:
 - Information relating to the Capacity Market Unit (CMU) eg, Address,
 Size of plant, etc
 - Connection Capacity and Technology Class
 - Declarations to include solvency, Low Carbon Exclusion, Low Carbon Grant Status, Short Term Operating Reserve (STOR) Status and Conduct of Applicant (complying with all Laws & not engaged in Market Manipulation)
 - Prequalification Certificate
 - Agent Nomination Form (if required)
 - Legal Opinion (from a qualified Lawyer)
 - Certificate of Incorporation

CMU Types

DSR CMU

A commitment to provide an amount of capacity by a method of demand side response by reducing the DSR customers import of electricity or by exporting electricity from one of more permitted on-site generating units

Non-CMRS Generating CMU (with connection capacity no greater than 50MW)

A generating unit provides electricity, is capable of being controlled independently from any other generating unit, has a net output measured by one or more half hourly meters and has a connection capacity greater than 2MW.

Proven DSR

A DSR CMU which has completed a DSR test.

To prequalify as Proven DSR you must complete the test before Prequalification – this is covered later in the session.

Will add all components at Prequalification

Unproven DSR

A DSR CMU which has not yet undertaken a DSR test

Unproven DSR CMUs will have to provide credit cover (£500/MW)

May add components after prequalification

Existing

A generating unit (or combination of units) which is able to generate and can prove its performance.

Refurbishing

An Existing Generating CMU (or combination of units) which is subject to an application as a Prospective Generating CMU by virtue of an improvements programme that will be completed pror to the start of the

New Build

A generating unit (or combination of units) which when commissioned will meet the definition above.

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Specific Contents – Proven DSR

Information	Details	Comment
DSR Test Certificate	DSR Test required to be completed prior to the commencement of the Prequalification Window – successful completion of which will see a DSR Test Certificate being issued	Upload of scanned document
Permitted On- Site Gen Units	Details of all such generating units and their electrical connections to the site where DSR Capacity is being provided	Data to be entered directly in Prequal System
Business Model	EMR Delivery Body Dusiness Model for a Proven DSR CMU Proven DSR CMU to which the Construction Plan Applies (insert CMU ID) Name & DSR CMU to which the DSR CMU (insert CMU ID) Construction Plan Applies (insert CMU ID) Name & DSR CMU to which the DSR Structure of the DSR CMU ID (insert Point Administration Metering for the Children of CMU Component DSR Provider DSR Number(s) of details of new the DSR Component Born measure provision for CMU (N & If DSR Test Included for CMU) Component DSR Test (included for CMU) DSR Provider DSR Test (included for CMU) Pstigning this DSR Business Model I declare that It IS 1	Data to be entered directly in Prequal System

Specific Contents – Unproven DSR

Information	Details	
Business Plan	<form><form><form><form><form><form><form><form></form></form></form></form></form></form></form></form>	<form></form>

Specific Contents – Generating CMU

All Generating CMUs:

Proof of connection – Either Connection Agreement, Connection Offer or written confirmation from the DNO (can be deferred for prospective CMUs)

Existing:

- Previous Settlement Period Performance and Supplier Letter to verify
- Single Line Diagrams
- Metering
 Assessment

Refurbishing:

- As new build for post refurbishing
- As existing for prerefurbishment

New Build:

- Relevant Planning Consents
- Construction Plan

For more information

- Further information on contents of an application and how to structure a CMU see the following.
 - Slides presented at O/C event on 15 April <u>https://www.emrdeliverybody.com/Capacity%20Markets%20Document</u> <u>%20Library/Stakeholder%20Event%2015%20April%20final.pdf</u>
 - 2014 CM User Guide (this will be updated for 2015 when the Rules are finalised)

https://www.emrdeliverybody.com/Capacity%20Markets%20Document %20Library/Capacity%20Market%20User%20Support%20Guide.pdf



Questions?



Assessment



National Grid Prequalification Assessment

Items that National Grid will be focussing on in the 6 week Application assessment period

- Ensure that all of the required Additional Information has been submitted by the Applicant
- Check that a Generating CMU is not a Defaulting CMU or an Excluded CMU
- Verify that the three highest metered output figures provided by an Existing Generating CMU are accurate
- That the Connection Capacity figure if calculated has been done so in accordance with the Rules
- That any documentary evidence provided corroborates the statements made in the application – e.g. Low Carbon Support does expire by the date stated
- that no other application has been submitted in respect of the generating unit(s) or MPAN(s) in a CMU

National Grid Prequalification Assessment

- Items that National Grid will NOT be focussing on in the 6 week Application assessment period
 - Whether the Applicant is the legal owner or despatch controller
 - That any declarations made by an Applicant are indeed truthful – e.g. planning consents, no disclosure of Confidential Information, compliance with Bribery Act, no receipt of Low Carbon Support etc
 - That any documentary evidence provided alongside the application is genuine

Results

National Grid will provide a notification to each party that submitted an Application informing them if they were successful or otherwise by 5pm on Prequalification Results Day.

<u>Notice of Prequalification Decision</u> The First Transitional Capacity Market Auction – 2016/17 Delivery Year		
Prequalification Decision	Conditionally Prequalified	
Identity of CMU	TACMU1	
Type of CMU	Unproven DSR CMU	
De-rated Capacity	18.227 MW	
Whether the unit is currently prequalified as a Price-Maker or Price-Taker	Price Maker	
If successful at Auction is the CMU subject to a Metering Test	Deferred	
Whether Prequalification is conditional on providing credit support pursuant to Rule 4.5.1(b)(ii) or Rule 4.5.1(b)(iii) or Rule 4.5.1(b)(iv)	Credit Cover Required £9113.50	
Additional Information	This box will contain reasons for the prequalification decision and any other relevant information 2	



Public

Capacity Market

Applicant Credit Cover Process - DSR Transitional Auction

Tuesday 2 June 2015

Hannah Pargeter

Who are we? What does our role involve?

Regulations, Rules or Publications	Official Title	Our
Settlement Body	Electricity Settlements Company	
Settlement Agent	EMR Settlement Services Provider	۲ ۲ ۲

Our role includes:

- Receive metered data
- Calculate payments and charges
- Invoice and collect payments due
- Manage settlement and reconciliations of payments
- Manage credit cover



What can I lodge as credit cover and how?





How much credit cover do I need to lodge?



- Prequalification Results Day
 - -Conditional prequalification notice confirms the de-rated capacity
- An application to prequalify for a DSR transitional auction, an amount equal to £500 per MW of the de-rated capacity of CMU



What is the process?



 If an unapproved notice is received, an Applicant may have the opportunity to re-submit Credit Cover



What further information will be provided?

- Applicant (Capacity Provider) Registration Form Working Practice
- Applicant Credit Cover Working Practice (updated)
- Letter of Credit and GBS Bank Account details
- We will be publishing updated versions on the EMRS website: <u>https://emrsettlement.co.uk/</u>
- Also, do have a look at the designated Capacity Provider webpage: <u>https://emrsettlement.co.uk/stakeholder-support/capacity-provider/</u>
- At a future event we will be covering the timings and the process in more detail for both auctions







Credit Cover – when placed...

When an Applicant is notified by the EMR Settlement Body that the Applicant's Credit Cover has been approved the Applicant needs to provide the Delivery Body with a copy of such notice <u>no later than 32 working days after</u> <u>Prequalification Results Day, Tuesday 10 November</u>.

The Applicant's CMU will also be amended to Prequalified on the CM Register. (subject to Rule 4.7 for Planning Consents)


Questions?



Transitional Auction





Applicant Price Maker Status

Price Maker; able to submit an exit bid at any price between the price cap and 0.01p

-Proposed, DSR, Refurb

Price Taker; exit bid must be below the Price Taker Threshold (PTT) and above 0.01p

- existing



Applicant Price Maker Status

Applicants for an Existing Generating CMU that wish to be a Price Maker must lodge a Price-Maker Memorandum with Ofgem in accordance with any published guidance and by **5pm on Tuesday 12 January** submit to the Delivery Body:

- the Price Memorandum receipt (from Ofgem)
- a Price-Maker Certificate (Exhibit B)

Within **two working days** the Delivery Body will notify the Applicant that it is a Price Maker.

Confirmation of Entry (Rules 5.5.11 – 5.5.14)

Refurbishing CMUs, New Build CMUs and DSR CMUs are required between 15 and 10 Working days ahead of the auction (<u>Tuesday 5 January and</u> <u>Tuesday 12 January</u>), to confirm that they wish to participate in the Capacity Auction, and must submit a notice to the Delivery Body to confirm this

- An Applicant for a Refurbishing CMU must specify in any confirmation whether or not it also wishes to participate in the Capacity Auction with respect to the associated Pre-Refurbishment CMU.
- An Applicant for a DSR CMU can confirm its DSR Bidding Capacity which must be less than or equal to its "Prequalified" De-Rated Capacity. If it does not explicitly nominate a DSR Bidding Capacity then it will default to the "Prequalified" De-Rated Capacity.
- An Applicant for New Build, Refurbishing or DSR CMU must confirm they wish to participate in the auction.
- Failure to submit a confirmation will result in that applicant not being permitted to participate in the auction and release of Applicant Credit Cover.
- Existing Generating CMUs do not need to make any confirmation and will automatically participate in the Auction becoming eligible for Capacity Agreements₄₁

Confirming Product

The Transitional Auction offers a choice of product

- Full Capacity Product
- Time-banded product (9-11am and 4-8pm Winter Working Days only)
- Rules state that following award of a capacity agreement you must immediately notify the DB which you would like.
- Subject to a Rule change proposal expected to change such that you notify the DB in the D-10 Entry Declaration and have up until the end of the working day after the end of the auction to revise choice.

Capacity Market - Auction

Auction Background

- Timeline
 - training, mock, real thing
- Auction explained
- Auction Access

Overview of 2015 Capacity Market nationalgrid process



Timeline 2015 (as per project plan)



Auction System

- Descending clock, pay as clear, multiple fixed rounds
- First round starts at the price Cap
- Each round has a fixed price spread
- Runs across multi rounds until demand is met by the supply- this final round is the Clearing round
- If clearing capacity met by multiple units decided by ranking (size, duration (not in TA), random number)
- If clearing capacity not met exactly then clearing algorithm used (Customer Welfare Algorithm)

Auction System

- Exit bid takes you out of the auction (unless your exit bid is equal or less than clear price)
- Duration Bid amendment used to change agreement length (to 1 year – only 1 year in TA!)
- Duration Bid amendment used to change from Refurb to Pre-refurb.
- Eligible participants who do nothing at auction will get an agreement at the clearing price

Auction System

TA first round starts Tuesday 26th Jan

- proposal to run over 2 days (assuming 15 rounds to get from Cap to floor, exact detail unknown)

- Provisional results known 07:00 following day
- 24h after auction closes the auction product can be decided (also done at the T-15 to T-10 window)
- T+2 auction monitor reports to SoS and Ofgem
- T+8 final results

Access to the auction system

- 2 Al's per registered Company advised- (4 max)
- Authorised Individuals secure with password and PIN
- No software to download
- Uses an ordinary browser.. with the right settings
- Auction system runs on a secure site hosted in the UK
- Simple intuitive interface follows the rules
- Accessible from T-9 to login and check your CMUs



Questions?





DSR Test



DSR Test: The Capacity Market Rules

Each DSR CMU must carry out a DSR test in accordance with rule 13.2 of 'The Capacity Market Rules'.

The DSR test can be obtained prior to the prequalification window, in which case the applicant can apply as a proven DSR CMU; or

After the award of the capacity agreement but no later than one month prior to the delivery year, in which case the applicant must apply as an unproven DSR CMU.

A DSR test may <u>not</u> take place during the prequalification assessment window (14th Aug – 25th Sept). The DSR test will be the same for all applicants.

DSR Test: What is Required?

The Metering Point Administration Number(s) of the meters for the site

Either a **Metering Test Certificate**, or if this has not been issued, confirmation of the **metering configuration** – Both done through the Settlement Body

And, either

(**Prior to prequalification only**) **historic data** that identifies 3 separate settlement periods within 2 years prior to the start of the prequalification window (**Data Driven Test**)

(<u>After Prequalification</u>) provide no less than 2 working days' notice of your intention to <u>test activate</u> the DSR CMU together with the settlement period in which the activation will be carried out (<u>Activation Test</u>).





Data Driven Tests & Activation Tests

Within 5 working days of NG receiving all the data we will notify the applicant of verified calculations of:

- 1. Baseline Demand
- 2. The DSR evidenced; and
- 3. The proven DSR Capacity

Activation Tests only

Applicants who have carried out an activation test, have 2 working days of receiving this information to request a retest of the activation test, in which case the verified calculations above will be run again and become conclusive (even if the second tests output is lower).

Data Driven Tests & Activation Tests

Within 5 working days of receipt of the above information being issued to the applicant, NG will issue the applicant with a DSR test certificate.

DSR Test: The Process



Data Driven Test (prior to Prequalification) - the above applicant has submitted all data including historical settlement data. They receive the DSR test certificate within 10 working days of the submission of data.



<u>Activation Test</u> - the above applicant has to carry out an activation test. The result of the verified calculations where challenged and a activation retest undertaken. They receive the DSR test certificate within 21 working days of the original application.



DSR Test: In Summary

If you want to enter the prequalification assessment as a proven DSR CMU, you will need to submit;

- 1. MPAN number
- 2. A statement confirming you comply with the approved metering configuration
- 3. Settlement data your chosen 3 settlement periods
- 4. You calculated volumes for Baseline Demand, DSR evidenced and your Proven DSR Capacity.
- 5. Company Details

Prequalification Window closes at <u>5pm on Friday 14 August</u> so if planning to enter prequalification as a Proven DSR CMU an Applicant will need to have progressed through the process and received their DSR Test Certificate by this date.



DSR Test: Further Guidance



DSR Test Guidance Document is available on our website.

Email Address: emr@nationalgrid.com

Capacity Market Telephone helpline: 01926 655300

Please contact us should you need any further help or guidance



Transitional Auctions Delivery Year Activities





Overview

Within Delivery Year Obligations

A set of obligations within the CM Rules that are designed to ensure that the DSR units or Generating Units that are the subject of a capacity agreement are physically capable of providing that capacity

A suspension / claw-back of capacity payments applies if these obligations fail to be met during the Delivery Year

Delivery Year Agenda

- Similarities & Differences to enduring arrangements
- Monitoring Satisfactory Performance
- Penalties and Warnings
 - Insufficient System Margin Warnings (Capacity Market Warnings)
 - Demand Control Instruction Warnings
 - System Stress Events & Capacity Market Penalties



Agenda

Similarities & Differences to Enduring Capacity Market Arrangements

Similarities & Differences

- In general the within Delivery Year arrangements for Transitional Arrangements and the enduring Capacity Market (from 2018) are identical
- Key Differences
 - Secondary Trading there is no secondary trading for obligations acquired through Transitional Auctions
 - CM Warning two types of warning not one, but they are treated identically to the single warning effective from 2018



Agenda

Monitoring Satisfactory Performance

Monitoring Satisfactory Performance

- Capacity Market Rules require a target output to be demonstrated across three half-hour settlement periods during each Delivery Year
 - Each settlement period identified must be on a separate day
 - Each of the days must be demonstrated during 1 October
 30 April to avoid loss of capacity payments
 - Failure to have 3 Satisfactory Performance Days confirmed by 1 May will see Capacity Payments suspended
- Slightly different process applies to DSR CMUs and Generating CMUs

Monitoring Satisfactory Performance^{ational}grid (DSR CMUs)

DSR CMUs – Satisfactory Performance Requirements

- Options available to demonstrate Satisfactory Performance
 - Self-Despatch to a predetermined Target DSR Volume
 - Self-Despatch in response to a System Stress Event
 - Self-Despatch in response to a request for Balancing Services

Monitoring Satisfactory Performanceationalgrid (Method 1)

DSR CMUs – Self Despatch to a predetermined Target DSR Volume

Step 1 – Capacity Provider for DSR CMU contacts National Grid Provider must give (between 9am and 4pm) National Grid a minimum of 6 hours notice of a proposed period that will meet requirements of Satisfactory Performance Day.

Step 2 – National Grid responds with Target DSR Volume No later than 4 hours in advance of the proposed period, National Grid confirms the Target DSR Volume. Ofgem change proposal to clarify this as the forecast ALFCO

Step 3 – DSR CMU delivers energy and self-assesses performance If Capacity Provider believes CMU has delivered energy equal to or greater than Target DSR Volume, notifies National Grid of occurrence of Satisfactory Performance Day

Step 4 – National Grid verifies any claim

National Grid will confirm after verification of metered output (via Settlement Body data) whether the DSR CMU has in fact met the Satisfactory Performance requirements

Monitoring Satisfactory Performance^{ational}grid (Method 1)

DSR CMUs – Self Despatch to a predetermined Target DSR Volume

- Restrictions / Caveats
 - If proving performance through requesting a Target DSR Volume, no more than 6 requests may be made during the period 1 October – 30 April

Monitoring Satisfactory Performanceationalgrid (Method 2)

DSR CMUs – Self Despatch in response to a System Stress Event

Step 1 – National Grid reports the occurrence of a System Stress Event Following post-event analysis of any Demand Control Instructions, National Grid determines that a System Stress Event has occurred for one or more half-hour periods

Step 2 – Capacity Provider assess performance of DSR CMU Capacity Provider determines if the DSR CMU met or exceeded its ALFCO during any of the half-hour periods in the System Stress Event

Step 3 – Provider notifies National Grid of Satisfactory Performance If Provider believes CMU has delivered energy equal to or greater than ALFCO, notifies National Grid of occurrence of Satisfactory Performance Day within 5 working days

Step 4 – National Grid verifies any claim

National Grid will confirm after verification of metered output (via Settlement Body data) whether the DSR CMU has in fact met the Satisfactory Performance requirements

Monitoring Satisfactory Performanceationalgrid (Method 3)

DSR CMUs – Self Despatch in response to delivery of a Balancing Service

Step 1 – System Operator despatches a balancing service on DSR CMU System Operator despatches a balancing service provided by the component parts of the DSR CMU

Step 2 – Capacity Provider assess performance of DSR CMU Capacity Provider determines if the DSR CMU met or exceeded its ALFCO during any of the half-hour periods during which a balancing service was delivered

Step 3 – Provider notifies National Grid of Satisfactory Performance If Provider believes CMU has delivered energy equal to or greater than ALFCO, notifies National Grid of occurrence of Satisfactory Performance Day within 5 working days

Step 4 – National Grid verifies any claim

National Grid will confirm after verification of metered output (via Settlement Body data) whether the DSR CMU has in fact met the Satisfactory Performance requirements

Monitoring Satisfactory Performanceationalgrid (Generating CMUs)

Generating CMUs – Satisfactory Performance Requirements

- Option available to demonstrate Satisfactory Performance
 - Self-Despatch

Monitoring Satisfactory Performanceationalgrid (Method 1)

Generating CMUs – Self Despatch

Step 1 – Capacity Provider self-despatches units in a Generating CMU Generator self-despatches for any reason

Step 2 – Capacity Provider assess performance of Generating CMU Provider determines if the Generating CMU met or exceeded its Capacity Obligation (as awarded at auction) during any of the half-hour periods it has self-despatched

Step 3 – Provider notifies National Grid of Satisfactory Performance If Provider believes CMU has delivered energy equal to or greater than their Capacity Obligation, notifies National Grid of occurrence of Satisfactory Performance Day within 5 working days

Step 4 – National Grid verifies any claim

National Grid will confirm after verification of metered output (via Settlement Body data) whether the DSR CMU has in fact met the Satisfactory Performance requirements


Penalties and Warnings

Penalties and Warnings

- Should a System Stress Event occur, then a Capacity Provider is exposed to Capacity Market Penalties if it fails to deliver against its Capacity Obligation
- Number of safeguards including:
 - Warnings are given in periods where the expectation of a system stress event is higher than a threshold
 - If stress event completely unexpected then period of grace given before penalties apply
 - Capacity Obligations are adjusted to reflect prevailing demand and delivery against balancing service contracts
- However there are no explicit despatch instructions in the Capacity Market



Penalties and Warnings





Inadequate System Margin Warnings

Warnings that are given in periods where the expectation of a system stress event is higher than a threshold

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Inadequate System Margin

Figure 1: Monitoring of System Margin



Inadequate System Margin

- National Grid will issue a notice to the market whenever an Inadequate System Margin is identified
 - Will rely on existing channels for this e.g. <u>http://www.bmreports.com/bsp/bsw.php</u>
- Information in the warning will include
 - Commencement time of the notice
 - Information about the circumstances triggering the notice
 - Details about where providers may find information about
 - System Demand
 - Capacity expected to be delivered by BM Units
 - Capacity expected to be delivered by non-BM Units



Demand Control Instruction Notifications

Notifications that are given in periods where an demand control instruction has occurred



Demand Control Instructions

- Should the System Operator manually issue a Demand Control instruction under the Grid Code to a Distribution Network Operator to curtail demand, or
- Should automatic low-frequency relays installed and operated under the Grid Code automatically curtail demand
- National Grid will issue a notice stating that this has occurred through <u>www.bmreports.com</u> from November 2015
 - A consequence of the recent Ofgem approval of change to the imbalance price arrangements under the Balancing and Settlement Code



Determining System Stress Events

Not all Demand Control Instructions issued mean that a System Stress Event has occurred. A number of further requirements need also to be met.

System Stress Event Requirements

A System Stress Event has occurred if (and only if):

Known close to Real Time Requirement 1 – System Operator has issued a Demand Control Instruction or a Low Frequency relay has operated to curtail demand each in accordance with the Grid Code

Requirement 2 – The Demand Control Instruction is for a period greater than or equal to 15 minutes

Only known Post Event Requirement 3 – The volume of Demand Control instructed is greater than the volume of generation curtailed by the System Operator in the same half hour

Requirement 4 – The Demand Control Instruction was not resultant from one or more faults on the transmission system or a distribution network



Penalties

A CMU that has a Capacity Obligation must deliver energy equal to or greater than its "Adjusted Load Following Capacity Obligation" during the relevant periods, this process works as follows:



Penalties and Warnings

To recap...



The following slides demonstrate this more figuratively

Scenario 1

The System Stress Event was "foreseen" in advance with a Inadequate System Margin Warning issued in advance



T T+4hrs

Scenario 2

The System Stress Event was not "foreseen" until much closer to the Demand Reduction Instruction



Delivery against Capacity Obligation

Q: So what does a CMU need to deliver during a System Stress Event to avoid Penalties?

A: Its Adjusted Load Following Capacity Obligation

- The Adjusted Load Following Capacity Obligation is designed to achieve a number of things including:
 - Prevent every MW of capacity with agreements from being incentivised to deliver at times of lower demand
 - Protects capacity providers with units on outages during lower demand periods
 - Protects those with balancing services agreements told not to generate during a stress event

Delivery against Capacity Obligation

Q: How do you calculate the Adjusted Load Following Capacity Obligation?

The formula in the CM Rules is complex, but in essence it does the following:

- Firstly it scales the Capacity Obligation from the auction to the actual national demand during the stress event
 - This ensures that a "load-following" obligation is generated
- Secondly it makes allowances for the provision of certain balancing services
 - Key services for DSR and non-CMRS CMUs: STOR, FFR, FCDM

Delivery against Capacity Obligation

Q: How are the adjustments for Balancing Services made?

- For each relevant balancing service the System Operator will notify the Settlement Body if a CMU (or part of it) is providing a balancing service during a stress event
 - The System Operator will also provide the volume under contract and the volume that should have been delivered under any utilisation of that balancing service
- The adjustments are designed to ensure that if an obligation is contracted during a stress event and the CMU delivers against that contract it faces no CM penalties

Penalties – Other Information

Penalties

Over-Delivery Payments

If a CMU over-delivers against its Adjusted Load Following Capacity Obligation it may share in the redistribution of penalty payments in the form of an over-delivery payment

Settlement

All financial settlement activities are managed by the Capacity Market Settlement Body

Penalty Rate

The penalty rate per settlement is equal to a maximum of 1/24 of the auction clearing price (expressed in MWh – so £19.40/kW = £808.33/MWh)

Penalty Caps – Monthly Penalty Cap

No more than 200% of a monthly capacity payment can be forfeit in any single month through penalty payments

Penalty Caps – Annual Penalty Cap

No more than 100% of annual capacity payments can be forfeit in total through penalties



Public

Capacity Market

EMRS Settlement – Metered Data - DSR Transitional Auction

Tuesday 2 June 2015

Hannah Pargeter

What we'll cover?





Our role includes:

- Receive metered data
- Calculate payments and charges
- Invoice and collect payments due
- Manage settlement and reconciliations of payments
- Manage credit cover



How do you provide metered data to EMRS?

Metering configurations have associated metering pathways through which metered data is sent to EMRS. For the DSR Transitional Auction we'll focus on the following:

Responsibl e for data submission	Metering Configuratio n Solutions	Metering Pathways	Data Collection and Submission	Submissio n Method	File Format
Capacity Provider	Existing Balancing Services or Bespoke Solution	Self- Submission Metering Pathway* or Data Collector Metering Pathway	Capacity provider or their appointed data collector	Submits metered data to EMRS in the defined file format	A CSV file piped delimiters format

- (*) This metering pathway is an option if a Capacity Provider has existing Balancing Services Metering
- To submit file, upload file via a Secure File Transfer Protocol (SFTP) to EMRS

What further information will be provided?

- Guidance document to provide supporting information on the CSV file format submission
- Working Practice document will detail the steps how to submit the CSV file to EMRS
- We'll be publishing these shortly on the EMRS website: <u>https://emrsettlement.co.uk/</u>

- We will be covering other aspects of our role at future events:
 - -Calculate payments and charges
 - –Invoice and collect payments due
 - -Manage settlement and reconciliations of payments



More information and contact details?

EMR Settlement Website

- -<u>https://emrsettlement.co.uk/</u>
- EMR Circular
- Calendar
- Working Practice
- Guidance documentation

All queries

- contact@emrsettlement.co.uk
- 020 7380 4025









Information

nationalgrid

DECC Stakeholder Bulletins

contact Corrine Jenkinson

corrine.jenkinson@decc.gsi.gov.uk

- National Grid
 - Portal <u>https://www.emrdeliverybody.com</u>
 - Mail list <u>emr@nationalgrid.com</u>
 - Helpline 01926 655300
 - Date of Next Event 17 June 2015 at the Charing Cross Hotel