

Housekeeping















Welcome and Purpose of Today...



- Ensuring that everything is in place for the first delivery year
 - SO Update
 - DSR and Agreements update
- EMR process for the three 2016 Auctions
 - Background to EMR CM Future Energy Scenarios
 - EMR CM Changes DBEIS and Ofgem
 - EMR Delivery Body and Applicants Registration & Prequalification
 - EMR Delivery Body Systems National Grid IS
 - Q&A Afternoon

Agenda



| Time | Agenda | Presenter |
|-----------------------------|--|---|
| 09:30 - 09:40 | Welcome, Agenda, Operational Plan, DSR update and Team changes | Matthew Magill |
| 09:40 – 10:10 | National Grid: SO Obligations within Capacity Mechanism | Dave Preston |
| 10:10 – 10:20 | ESC: Sampling and Metering Testing | Matthew Johnson |
| 10:20 – 11:05 | National Grid: Electricity Capacity Report and Future Energy Scenario update | Duncan Rimmer, Gareth Lloyd and Andy Dobbie |
| 11:05 – 11:20 | Break & 121's & optional Q&A preference | |
| 11:20 – 11:30 | Ofgem: update | David ONeill |
| 11:30 – 11:45 | DBEIS: policy and consultation update | Jonathan Robinson |
| 11:45 – 12:45 | Delivery Body: Registration & Prequalification (end to end process) | Matthew Magill & Eleanor Brogden |
| 12:45 – 12:55 | Delivery Body: IT update | Viv Emery & Ian Nicholas |
| 12:55 – 13:15 | Delivery Body: Auction parameters, readiness overview and end to end process | lan Nicholas |
| 13:15 – 13:20 | Plan for the afternoon & key messages | Matthew Magill |
| 13:20 – 14:00 | Lunch & 121's & Visit the ECR Table | |
| | Q& A Group 1: DSR testing process | Tim Gregory |
| 14:00 – 15:00 (optional) | Q&A Group 2: Prequalification process and rules | Tushar Singh, Eleanor Brogden and Ian Nicholas |
| | Q&A Group 3: DBEIS policy and consultation update | Jonathan Robinson |
| 15:00 | End | |

Farewell & Thank you...





- Eleanor Brogden is leaving to a new role of Strategy Analyst.
- Eleanor will be leaving the EMR ring-fence on 27 July 2016, so will be unavailable to Applicants' EMR related queries from this date.
- Today will be Eleanor's last Operational Co-ordination Event... & the only one she was not able to negotiate out of presenting at!

"It has been a pleasure working with you all... many were faces I had known from my previous role at National Grid, & I look forward to meeting you all again in a different guise"

"In particular, a thank you to the Ofgem & DECC (as was) teams – my role in this team was Rules & Reg.s focussed and I have enjoyed working with you all"

New Starters in the EMR Team



Start - Vikas Garg (Auction Analyst) and Tim Dart (Auction Analyst) Mid July - Emily Hurst (Customer Lead) End July - David William (Team Leader) Assessment 29 Aug - 23 Sep JUL **AUG** Prequalification 1 to 26 Aug Start - Angela Hodgson (Senior Analyst), Faye Purchase (Team Leader) and Richard Griffiths (Senior Analyst)



Operational Timetable

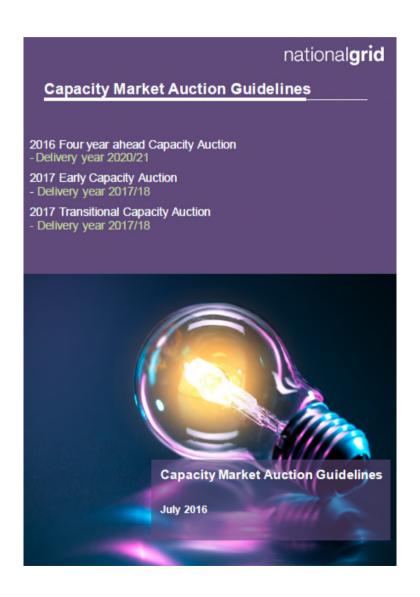


National Grid, as the Delivery Body, have recently published the key dates for the three planned Capacity Market auctions (including prequalification and other key milestones) in the Operational Plan



Capacity Market Auction Guidelines July 2016





- The Capacity Market Auction Guidelines outline the process for participant to prequalify and enter the three Capacity Auctions along with content around the target volumes to procure, de-rating factors and the key dates and milestones.
- The Regulations, the Rules, and these Auction Guidelines form the legal requirements for market participants wishing to enter the Capacity Market and for owners of Mandatory CMU's not wishing to enter the Capacity Market.

Key Dates



| Aug | Sept | Oct | Nov | Dec | Jan | Feb | Mar |
|------------|--------------------|---------------------|--------------------|-------------------------|----------------------|-----------------------------|-----------------|
| •01/08/20 | 16 Pre-qual | ification Su | bmission W | indow Ope | ens | | |
| 26/ | 08/2016 Pre | e-qualification | on Submiss | ion Windov | v Closes | | |
| • : | 30/08/2016 | Pre-qualific | cation Asses | ssment Wir | ndow Opens | | |
| | >> 23/0 | 09/2016 Pre | e-qualification | on Assessn | nent Windov | w Closes | |
| | 2 0 | 6/ 09/2016 T | ier 1 Dispu | tes Windov | v Opens | | |
| | | 30/09/201 | 6 Tier 1 Dis | putes Wind | dow Closes | | |
| | | ♦14/1 | 0/2016 Pre- | -qualificatio | n Results R | egister Upo | late |
| | | | | ♦ 06/12/2 T-4 Au | 2016 ction Starts | | |
| | | | | | | /01/2017 arly Auction | Starts |
| | | | | | Transition | 22/0 onal Auctior | 3/2017 ◆ Starts |



Financial Commitment Milestone – Rule 6.6



| Auction Year | CMU Type | When (18 months after the Auction Results Day) | What you need to provide |
|-----------------|--------------------------|--|--|
| 2014 T-4 | New Build & Refurbishing | 02/07/2016 | Assessment by Independent Technical Expert as per the Required Technical Standard stating – 10% Capital Expenditure of the Total Project Spend has been met OR Sufficient financial resources to meet Total Project Spend Capacity Provider has entered into a major |
| 2015 T-4 | New Build & Refurbishing | 22/06/2017 | contract Along with - Directors resolution to complete project on or before start of Delivery Year Directors Certificate confirming sufficient financial resources and validity of the contract entered into |

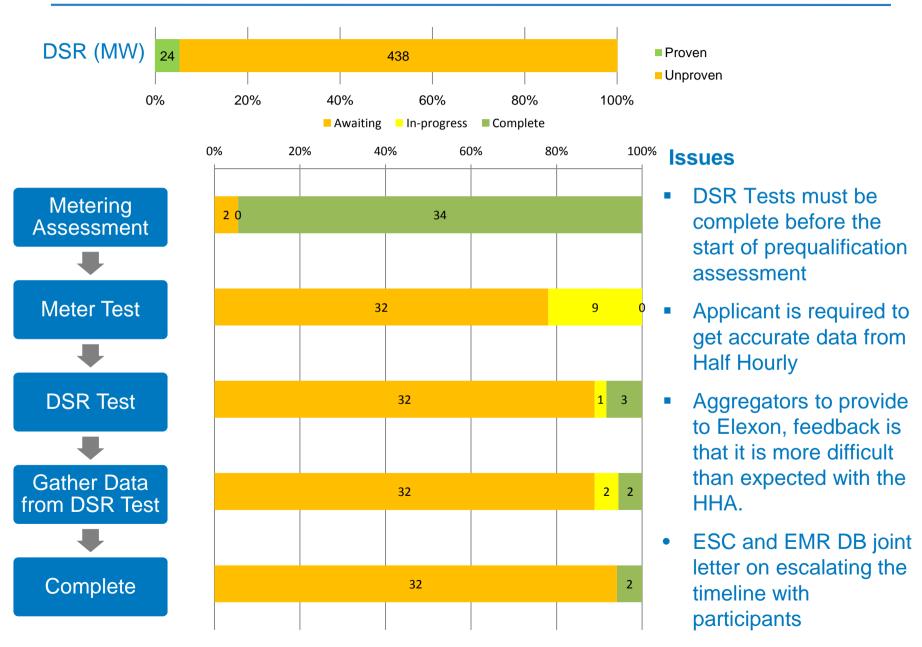
6 Monthly Progress Update Reports nationalgrid - Rule 12.2



| Auction Year | CMU Type | When (every 6 months from Auction date till Substantial Completion Milestone is achieved) | What you need to provide |
|-----------------|--------------------------------------|---|---|
| 2014 T-4 | New Build & Refurbishing 3rd report | 18/06/2016 | Progress Report Schedule of Construction Milestone dates and material changes |
| 2015 T-4 | New Build & Refurbishing 1st report | 10/06/2016 | Material changes to works described in the Construction Plan Assessment from ITE |
| 2015 TA | New Build | 27/07/2016 | Directors Certificate |
| | 1 st report | | |

DSR Proving





SO Obligations within Capacity Mechanism

David Preston – Business Lead, Strategic Projects



Content

System Operator role in Capacity Mechanism

A recap of key messages

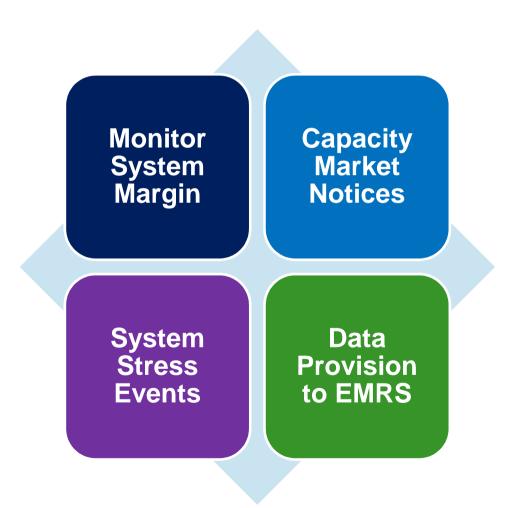
Capacity Market Notices (CMN) recap

CMN Scenarios recap

Draft website visuals

Next steps and communications timetable

System Operator role in Capacity Mechanism





A recap of key messages

Capacity Mechanism goes live on 01 October 2016

2016/17 Transition Period is an opportunity to learn

Particular interest in 4hr and 500MW (threshold) constants

CMNs are not an operational dispatch tool

Operational messages will continue to appear on BMRS

System Stress Event confirmation follows SO analysis

A discrete website is being developed for CMNs, Stress Events

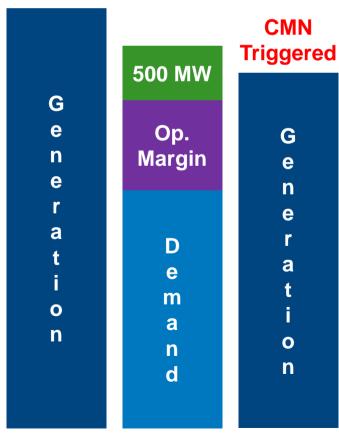
Capacity Market Notices (CMN) recap

Comparison with Notification of Inadequate Margin (NISM)

| CMN | VS | NISM |
|--------------------------------------|-------------|--|
| Automated | Trigger | Manual |
| 500MW above Margin requirement | Threshold | 500-700MW below Margin requirement |
| Not included | Constraints | Included |
| 4 hours out (for initial alert) | Lead time | Flexible |

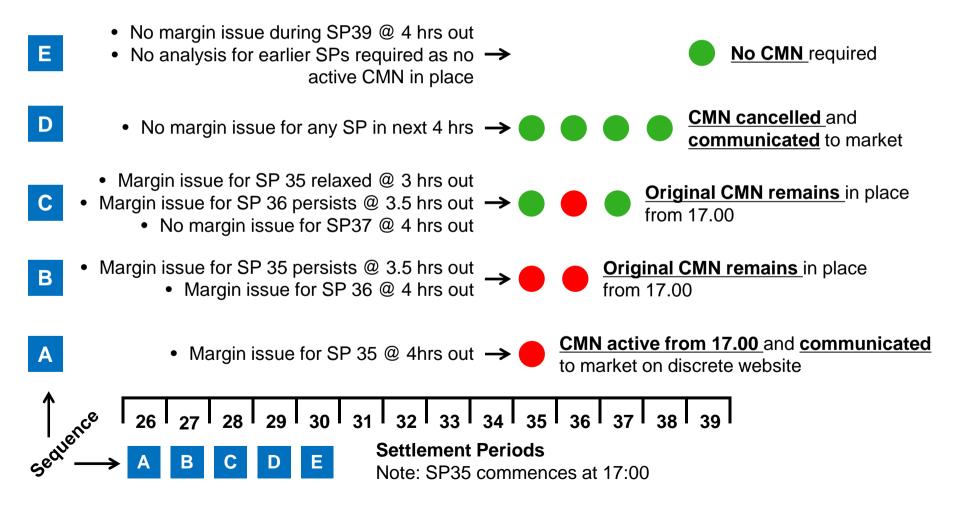
How Triggered?

No CMN Trigger



CMN scenarios recap

Note: Where National Grid is managing a margin challenge within 4 hours, and a CMN is not active, all communications will be managed through traditional routes via the System Warnings page on BM Reports



GB Electricity Capacity Market Notices

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Subscribe to notifications



Confirmation of Electricity System Stress Event

Posted by National Grid (System Operator) on Thursday 19th January 2017 at 8:32pm

| Start time of System Stress Event | Thursday 19th January 2017 at 7:41pm |
|-----------------------------------|--------------------------------------|
| End time of System Stress Event | Thursday 19th January 2017 at 8:32pm |

Message from System Operator

Posted by National Grid (System Operator) on Wednesday 18th January 2017 at 7:58pm

Lorem Ipsum dolor sit amet, consectetur adipiscing elit. Aliquam luctus mauris quis ex sodales dignissim. Curabitur eu pretium ex. Phasellus tincidunt tristique enim eu sagittis. Nulla tempus dolor quis ante pretium, non aliquam risus placerat. Nunc vel dictum est, id blandit augue. Mauris mi libero, dictum lacinia sodales et, ultrices in libero. Proin tincidunt dui in velit semper, vel molestie augue dictum. Praesent eleifend odio diam, vitae sodales velit lobortis ac.

Electricity Capacity Market Notice Cancelled

Posted by National Grid (System Operator) on Tuesday 17th January 2017 at 6:25pm

The Capacity Market Notice originally active from 5:00pm on Tuesday 17th January 2017 is being cancelled from 6:30pm on Tuesday 17th January 2017.

Filter Notifications

Sort posts by

Date Posted ASC



Categories to view

✓ Capacity Market Notices



✓ General Notifications

Date range



22 May 2016 - 16 Jun 2016 V



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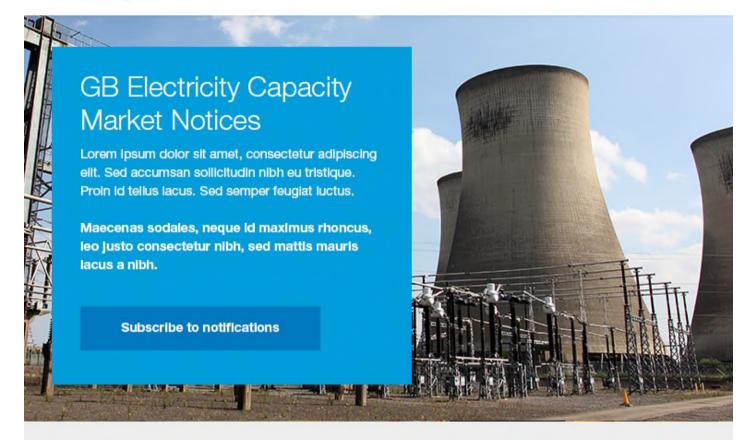
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Add Mobile Number



Enter mobile number

Add Number



Notifications



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Next steps and communications timetable

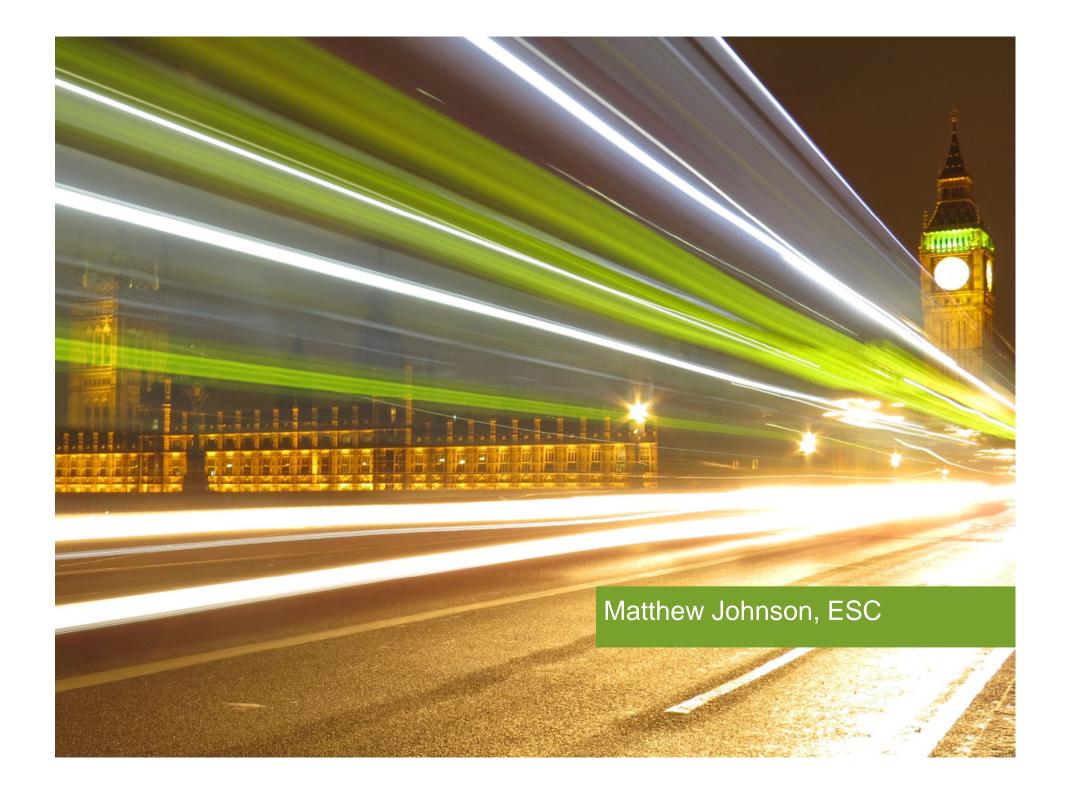
CM Systems development / testing ongoing within SO

Website architecture and content being refined

Website launched mid-September for subscriptions

CM go live on 01/10/16

Follow up presentations at industry events from October





Metering assurance update 19 July 2016

Electricity Settlements Company Role and responsibilities



ESC – The Settlement Body set up by DECC

Capacity Market financial transactions

- Auction Credit Cover collection / approval
- Invoicing suppliers for Capacity Market costs
- Payments to and penalties collection from Capacity Providers

EMR Settlements Ltd operates as our settlement agent covering day to day activities.

Capacity Market metering configuration assurance

EMR Settlements Ltd operates as our metering services provider covering day to day activities.

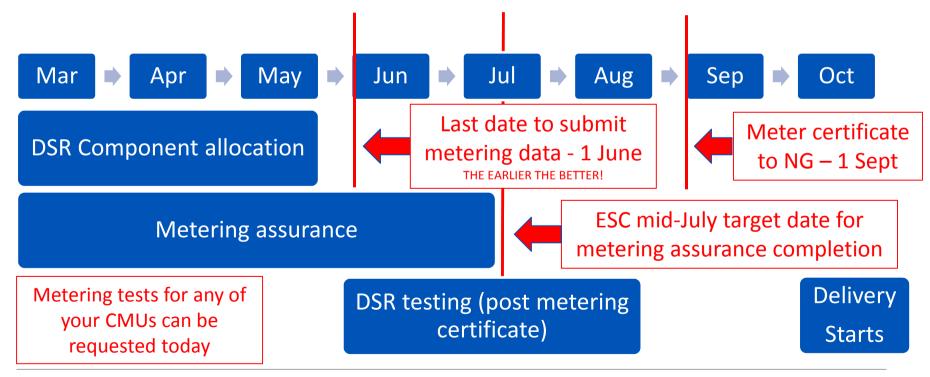


Electricity Settlements Company TA metering assurance timeframe



Recommended timeline as previously communicated

ESC has been constant in its messaging that ESC cannot guarantee to complete metering test requests / statements received after 1 June 2016. However, test requests remain low and not one component has passed a metering test for the 2016/17 TA delivery year.





Electricity Settlements Company TA metering assurance next steps



- ESC encourages TA Capacity Providers to submit metering test request / statements to EMRS ASAP. ESC is operating meter assurance on a "first come first served basis". A test takes an average of 5 hours to complete we only have 31 working days until the deadline.
- Metering test requests / statements should be of high standard to ensure efficient use of metering test resources. Effort spent failing tests is effort that could be used to pass tests.
- If a Capacity Provider has any questions or requires technical assistance regarding metering assurance they should contact EMRS.
- If a Capacity Provider expects to withdraw from the CM process it would be appreciated if they inform ESC/EMRS so resources can be reallocated as required.
- Any retesting driven by rectification / resubmissions must be completed within the given timescales. The deadline of 1 September to present metering certificates to National Grid still applies.
- Again, ESC cannot guarantee to complete any submissions of metering test requests / statements after 1 June. Any Capacity Provider who is unable to present a metering test certificate to the CM Delivery Body as required on 1 September 2016 will face termination.



Electricity Settlements Company Meter Sampling



- The 2016 rule changes will allow ESC to perform meter testing on a risk based sample basis.
- However, there is no tangible impact on Capacity Providers as metering test requests / statements must still be submitted for all components - ESC selects the sample not the Capacity Provider.
- Sample size will be determined by:
 - The largest component will be tested (a CMU of 1 component will be subject to testing)
 - Applicant's company country of registration
 - Component size
 - all components over a maximum capacity value
 - a predetermined percentage below a minimum capacity
 - Applicant's trading length
 - Applicant's credit rating
 - Applicant's net worth (positive or negative)
 - Sample size will be increased in the event of component failure
- ESC will be issuing guidance on sampling in the near future.



Electricity Settlements Company 2014 T-4 metering assurance deadline



- Meter test requests / statements for 2014 T-4 auction for Existing Generators and Proven DSR CMUs must be submitted in a timely manner to allow ESC to issue metering certificates by end of March 2017.
- Missing this deadline will be a <u>termination event for these CMUs.</u>
- ESC encourages applicants to submit high quality metering test requests / statements by <u>31 December 2016</u>.
- Metering certificates issued here can also be used for the supplementary / early capacity 2017/18 delivery year if a CMU consists of the same component configuration.



Electricity Settlements Company TA metering test contact details



We are open for business:

Request a Metering Test

- contact@emrsettlement.co.uk
- 020 7380 4333

Metering Test Queries

- <u>iain.nicoll@elexon.co.uk</u>
- 020 7380 4162



2016 Future Energy Scenarios & 2016 Electricity Capacity Report







Capacity Market Operational Coordination Event 19th July 2016

Agenda

- Future Energy Scenarios FES in "five"
- Executive Summary ECR
- Summary of key modelling developments since 2015 ECR
- Recommended capacity to secure for 2020/21
- Recommended capacity to secure for 2017/18
- Indicative capacity to secure for 2018/19
- Interconnected country de-rating factor ranges
- Conventional plant de-rating factors
- Questions

Future Energy Scenarios





The 2016 key messages

Traditional sources of energy supply are being replaced with an ever-divergent mix.



Significant progress needed in heating and transport sectors to meet 2020 renewable energy target.



Action needs to be taken this decade to drive progress towards the 2050 carbon reduction target.



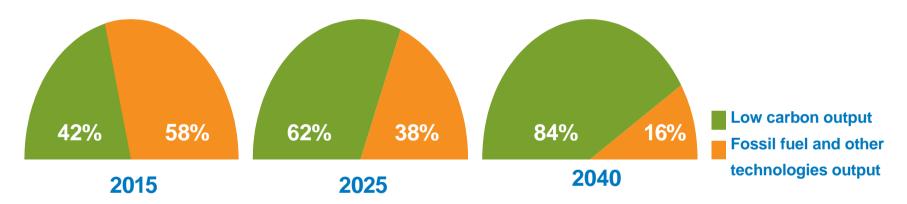
Gas will play an essential role in energy decarbonisation.



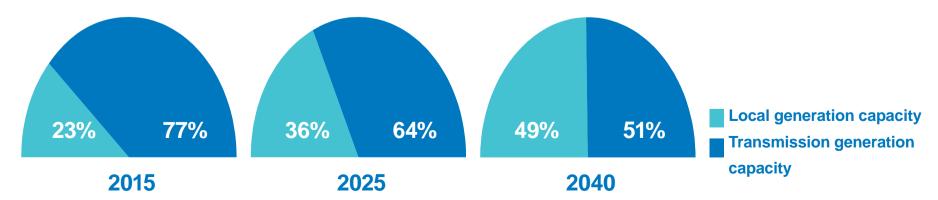


A significant shift in generation

Moving away from carbon intensive sources (Gone Green)



Increasing role of local generation (Consumer Power)

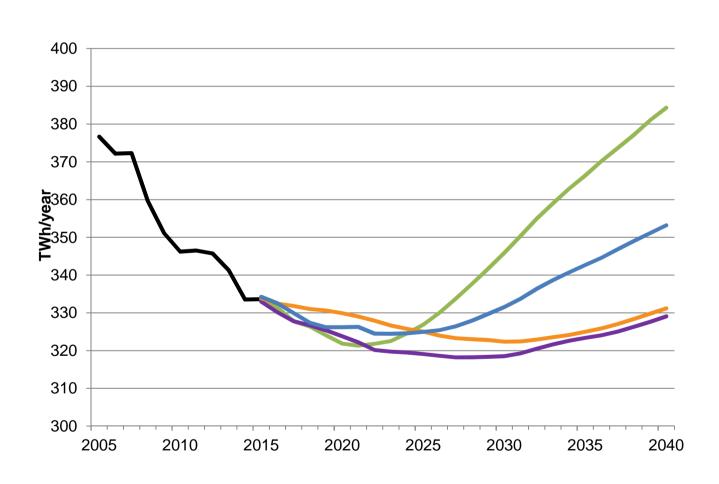


Evolution of our scenarios





Annual Electricity Demand



Executive Summary

Executive Summary – The Why & What

- Licence obligation to submit Electricity Capacity Report (ECR) to DECC before 1st June
- ECR published on 8th July 2016
- Modelling scrutinised by DECC, DECC's Panel of Technical Experts & Ofgem
- This year's ECR contains 2 recommendations for 17/18 (Early Auction) and 20/21 (T-4 auction) plus an indicative requirement for 18/19 (T-1 auction)
- To reflect the risks around early coal closures we have incorporated in our modelling new coal closure non-delivery sensitivities
- We have incorporated a number of modelling enhancements,
- ECR also contains recommended ranges of de-rating factors for interconnected countries for 2017/18 and 2020/21 auctions
- The Secretary of State determines:
 - the capacity to secure and, for 2020/21 the split between T-4 and T-1 auctions
 - the auction parameters including the demand curve
 - individual interconnector de-ratings for use in the CM auctions

Executive Summary – Key Messages

- 2017/18 Early Auction (T-1) and 2020/21 T-4 recommendations are higher with the inclusion of the coal non-delivery sensitivities than they would have been without these sensitivities
- Over the period 17/18 to 20/21 the capacity to secure recommendations have remained broadly consistent with a slight downward trend due to increases in renewable generation
- 18/19 T-1 indicative requirement increases significantly from 2.5GW to 7.3GW as we assume some plant with CM contracts default. If these plant are successful in the 17/18 CM auction and subsequently stay open then this requirement reduces to 4.6GW
- Interconnected countries de-ratings ranges show small increases compared to last year's analysis for all countries except Ireland which increases due to the assumption of more effective market coupling post introduction of I-SEM
- Conventional plant de-rating factors are similar to those used in the 2015 ECR. We welcome feedback on the methodology used to calculate conventional plant de-rating factors.



Executive Summary - Capacity to Secure

ECR uses probabilistic modelling of a range of scenarios and sensitivities and a Least Worst Regret (LWR) decision tool to select recommended or indicative capacity:

| Year | Total Eligible Capacity Requirement(GW) | Capacity already secured & adjustments (GW) | Recommended / indicative requirement (GW) | Secretary Of State's Decision (GW) |
|--------------------------|---|---|---|--|
| 2020/21 (T-4) | 53.2 | -3.5 | 49.7 | 52.0 (T-4) 0.6 (T-1) |
| 2017/18 Early Auction | 53.8 | n/a | 53.8 | 53.8 |
| 2018/19 (T-1) | 2.5 | +4.8* | 7.3 | N/A |

- Recommendation for 2020/21 covers 18 out of 22 cases modelled. Target increased for new information (after ECR submitted) on plants defaulting on formal milestones and DECC's lower view of autogeneration opting out of CM (which will not be known until post prequalification when this target figure will change again!)
- Recommendation for 2017/18 covers 14 out of 20 cases modelled
- Indicative capacity for 2018/19 covers 21 out of 26 cases modelled

Executive Summary - Country De-rating Factors

 We provide range of interconnected countries' de-rating factors from which Sec. Of State decides de-rating factor for each interconnector to use in the CM

| Country | 2017/18 | 2020/21 | 2019/20 (2015 ECR) | Interconnector | Decision (2017/18) | Decision (2020/21) |
|--------------|---------|---------|-----------------------|--------------------------|-----------------------|-----------------------|
| France | 45-86% | 45-88% | 50-70% | IFA IFA 2 Eleclink | 59% N /A N /A | 60% 62% 65% |
| Ireland | 2-58% | 25-50% | 2-10% | Moyle & EWIC | 30% | 26% |
| Netherlands* | 70-82% | 70-82% | 62-80% | Britned | 74% | 74% |
| Belgium | n/a | 65-92% | 58-70% | NEMO | N/A | 77% |
| Norway | n/a | 76-96% | n/a | NSL | N/A | 78% |

- Top of range is based on Baringa's pan European modelling with the bottom based on Pöyry's historical modelling
- Ireland's lower end of the 17/18 range allows for a potential delay in the effectiveness of I-SEM introducing market coupling (last year's range for 2019/20 based more on historical analysis and less effective market coupling)

Summary of key modelling developments since 2015 ECR

Summary of developments

Data Input Assumptions

- New offshore wind power curve
- Wider range of sensitivities including coal non-delivery
- Updated interconnector distributions for 17/18 & 20/21 from Baringa's pan European model
- Updated interconnector assumption and sensitivities for 18/19

Modelling Changes

- DDM upgrades:
 T-1 auctions, wind streams
- DDM analysis confirming model output accuracy and impact of modelling at GB level
- Change from 36 to 10 year wind history
- Wind/demand scaling of pooled 10 year data
- High and low wind output sensitivities

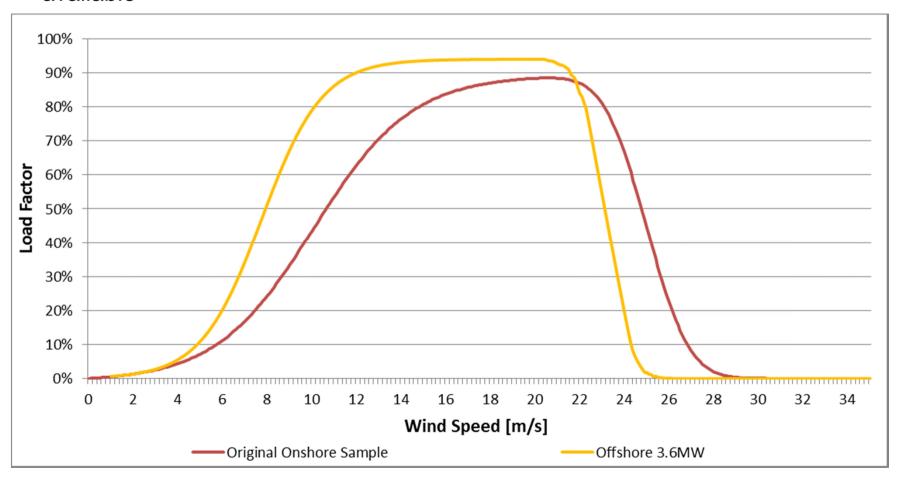
Result Interpretation

- Base case consistent with demand forecasting accuracy incentive
- Sensitivities applied to Base Case
- Confidence Interval range for capacity requirement
- LWR ratio of VoLL / CONE* needs to be consistent with Reliability Standard



Offshore Wind Power Curve

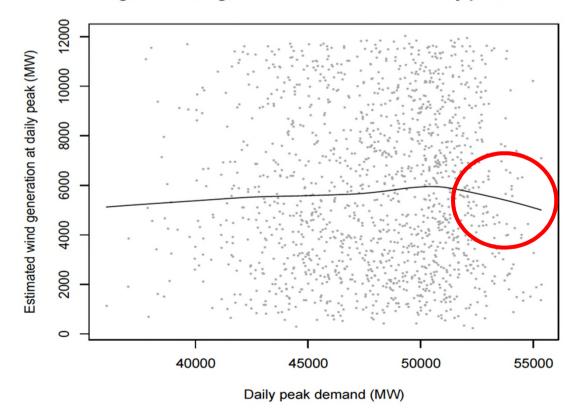
- Derived from data available for turbines (<4 MW) at 3 sites in winter 2014/15</p>
- Data is limited curve will be reviewed in future years as more data becomes available





Modelling Changes – wind demand relationship

- Research commissioned on whether wind output should be scaled at high demand
- Analysis based on 10 winters (Nov-Mar) paired data rather than pooled data
- For 2016 ECR base assumption uses 10 years pooled history which is scaled (by 0.9)
- Low wind (0.8 scaling) and high wind (1.0 scaling) sensitivities included
 Wind generation against demand at times of daily peak demand

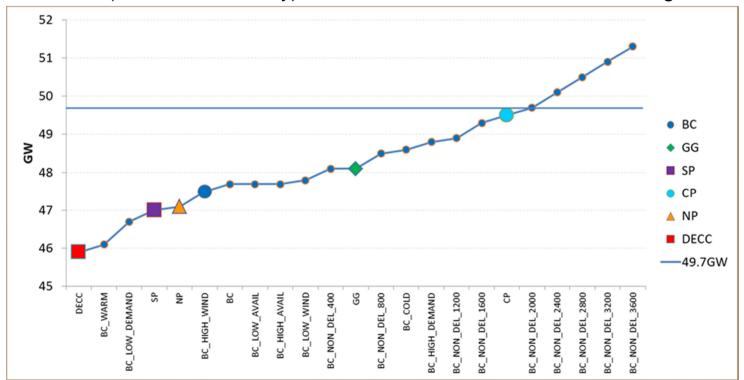


Recommended capacity to secure for 2020/21



2020/21 Capacity to secure

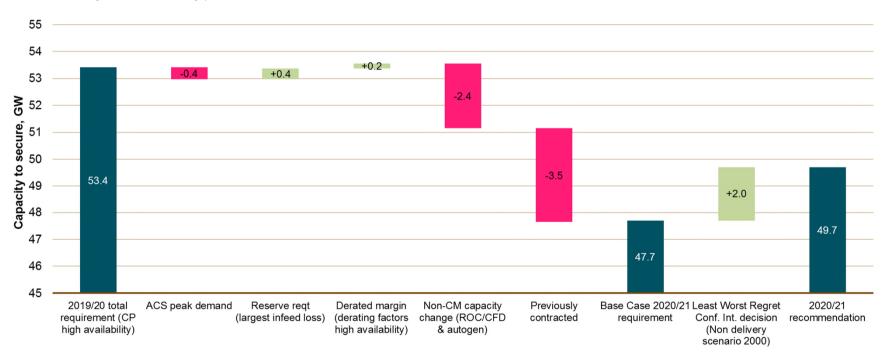
- CM eligible capacity is total capacity minus capacity receiving support via RO, CfD or FiTs
- The chart shows the level of CM capacity required in each scenario and sensitivity to meet the Reliability Standard of 3 hours LOLE in 20/21. It excludes any CM plants with 3, 14 or 15 year contracts from the 18/19 and 19/20 T-4 auctions assumed to operational in 2020/21
- LWR outcome is 49.48 GW (CP). Nearest base case sensitivity within confidence interval is 49.65 GW (2 GW non-delivery). Hence recommendation after rounding is 49.7 GW





2020/21 waterfall from 2019/20

The following waterfall chart shows how the original 53.4 GW total requirement for 2019/20 (derived from the 2015 Consumer Power High Availability sensitivity) has changed into total CM-eligible requirement of 49.7 GW (derived from the 2016 Base Case 2000 MW non-delivery sensitivity):



2020/21 – Key Points

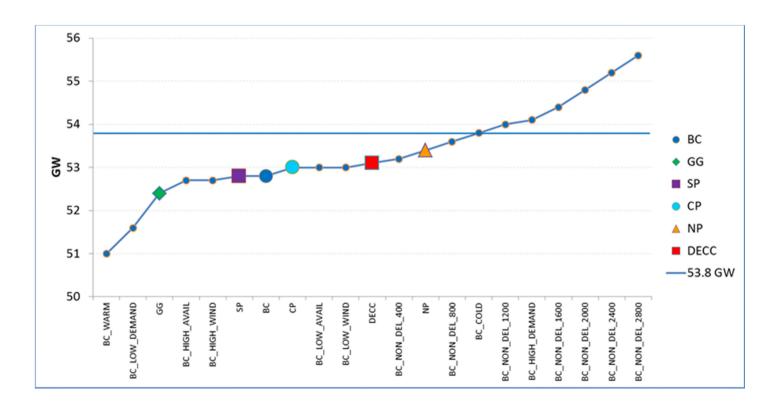
- Sensitivity range 46.1-51.3GW (with lowest Warm Winter and highest Non-delivery 3.6GW)
- When compared to 19/20 recommendation before any adjustments (e.g. T-1 held back) higher renewable generation and non-CM autogeneration decrease requirement with wider range of non-delivery sensitivities increasing requirement
- Warm Winter sensitivity is key to LWR result
- Raw LWR selects the Consumer Power scenario (because it assumes significant closure of previously contracted plant); however, this doesn't align with demand forecasting incentive so the nearest sensitivity to this value is chosen (but within the confidence interval)
- LWR recommendation is 49.7GW (Non-delivery sensitivity 2GW).
- Secretary of State decided to increase requirement to 52.6 GW to account for new information (after ECR submitted) on plants defaulting on formal milestones and DECC's lower view of autogeneration opting out of CM and lower growth in small scale renewables
- Secretary of State decided to hold back 0.6 GW for T-1 auction leaving 52.0 GW target for the T-4 auction.
- Pre-qualification to determine adjustments required e.g. opted out plant that will remain operational or plants with different closure assumptions to the Base Case

Recommended capacity to secure for 2017/18



2017/18 - LWR Decision from Range

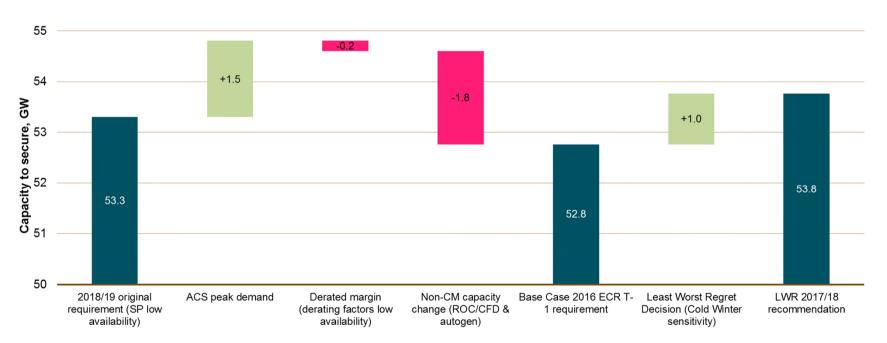
- The chart shows the level of CM capacity required in each scenario and sensitivity to meet the Reliability Standard of 3 hours LOLE in 2017/18. There are no previously contracted plants for 2017/18
- LWR outcome and recommendation for 2017/18 is 53.8 GW (Cold Winter sensitivity)





2017/18 waterfall from 2018/19

The following waterfall chart shows how the original 53.3 GW total requirement for 2018/19 (derived from the 2014 Slow Progression Low Availability sensitivity) has changed into total CM-eligible requirement of 53.8 GW (derived from the 2016 Base Case cold winter sensitivity):



2017/18 – Key Points

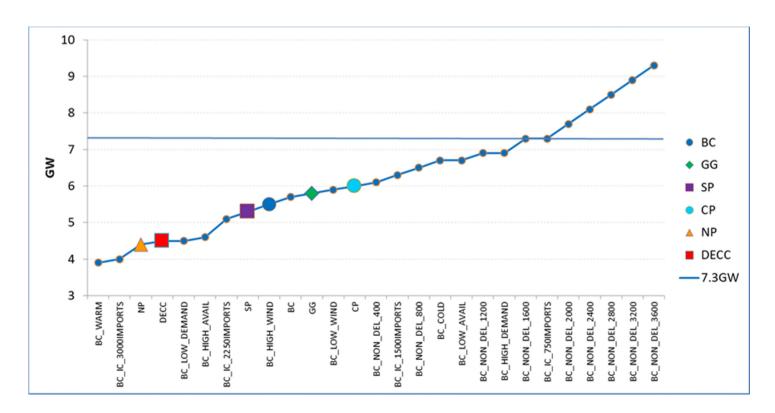
- Sensitivity range 51.0-55.6GW (with lowest Warm Winter and highest Nondelivery 2.8GW)
- When compared to 18/19 recommendation before any adjustments (e.g. T-1 held back) higher demands are cancelled out by higher non-CM autogeneration with the wider range of non-delivery sensitivities increasing the requirement
- Non-delivery 2.8GW sensitivity is key to LWR result
- LWR result is 53.8GW (Cold Winter sensitivity)
- Pre-qualification to determine adjustments required e.g. opted out plant that will remain operational or plants with different closure assumptions to the Base Case
- Secretary of State decided target capacity is 53.8 GW [none held back since no T-1 auction]
- Transition from CBR to CM gives a similar level of risk to consumers

Indicative capacity to secure for 2018/19



2018/19 - LWR Indicative Decision from Range

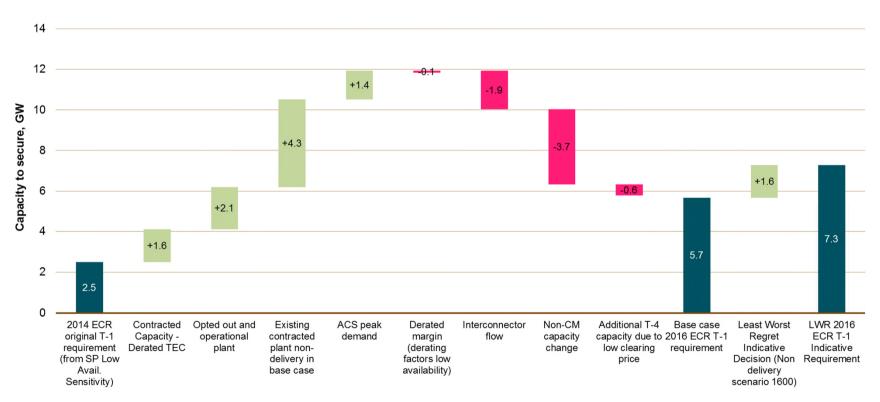
- The chart shows the level of CM capacity required in each scenario and sensitivity to meet the Reliability Standard of 3 hours LOLE in 2018/19. It excludes any CM plant with contracts for 2018/19 from the T-4 auction assumed to operational in 2018/19
- LWR outcome and indicative capacity for 2018/19 is 7.3 GW (Base Case 1600MW sensitivity and also the 750 MW continental imports sensitivity)





2018/19 waterfall from 2018/19 T-1 held back

■ The following waterfall chart shows how the original 2.5 GW requirement held back for the 2018/19 T-1 auction (derived from the 2014 Slow Progression Low Availability sensitivity) has changed into an indicative requirement of 7.3 GW (derived from the 2016 Base Case 1600 MW non-delivery sensitivity):



2018/19 – Key Points

- Compared to original 2.5GW held back for T-1, increase in the indicative requirement due to; contracted capacity being greater than de-rated TEC, "opted out but operational" plant closing (or opting in), closure of contracted plant in Base Case and higher demand
- Decrease in the indicative requirement due to; higher imports (non-CM),
 higher renewable contribution, additional capacity bought in T-4 auction
- With the wider range of non-delivery sensitivities increasing the requirement
- Warm Winter sensitivity is key to LWR result
- LWR result is 7.3GW (Non-delivery sensitivity 1.6GW)
- This indicative view highlights the risk of contracted coal plant defaulting which in itself may prevent them closing thus reducing the requirement by up to 2.7GW to 4.6 GW

Interconnected country de-rating factor ranges

Interconnector Analysis Timeline

2014 2015 2016 2017 2018

Float base case with import sensitivities

High level assumptions

ELSI for annuals,

De-rating factors for peaks

European prices from Baringa used in GB ELSI model to produce annual flows.

Peak flows from de-rating factors applied to capacities with reduction for each additional interconnector from a country.

4 year history

Baringa

Pan-European stochastic model

Baringa pan-European model using 2015 FES demand and generation for GB, nearest Baringa scenario for rest of Europe and FES2016 interconnector capacities and fuel prices.

9 year history

pan-European stochastic model (BID3) with FES

European

inputs

National Grid

National Grid pan-European modelling using Pöyry's Bid 3

It should be possible to get a final run using all FES 2017 data to get consistency between generation, demand and interconnectors

30 year history

National Grid pan-European stochastic model (BID3) with FES European

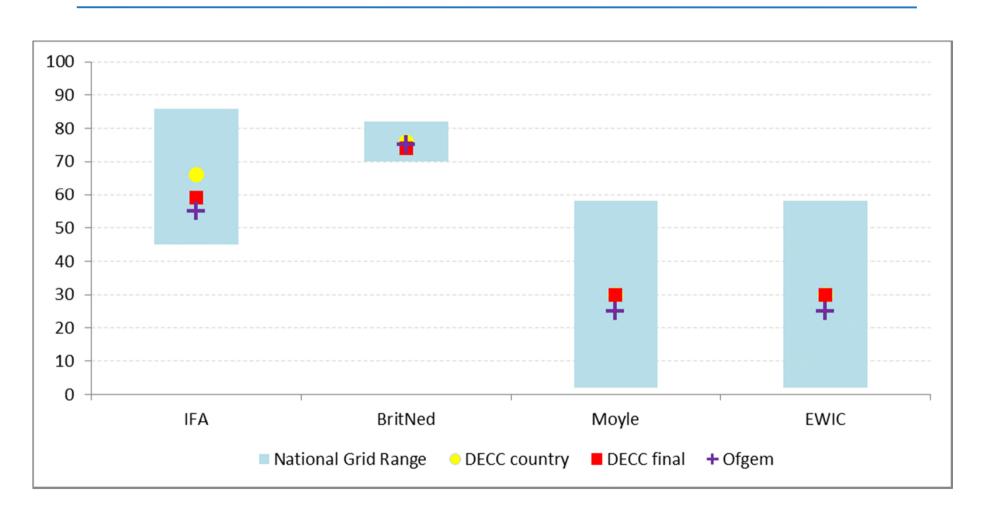
National Grid pan-European modelling using Pöyry's Bid 3

inputs

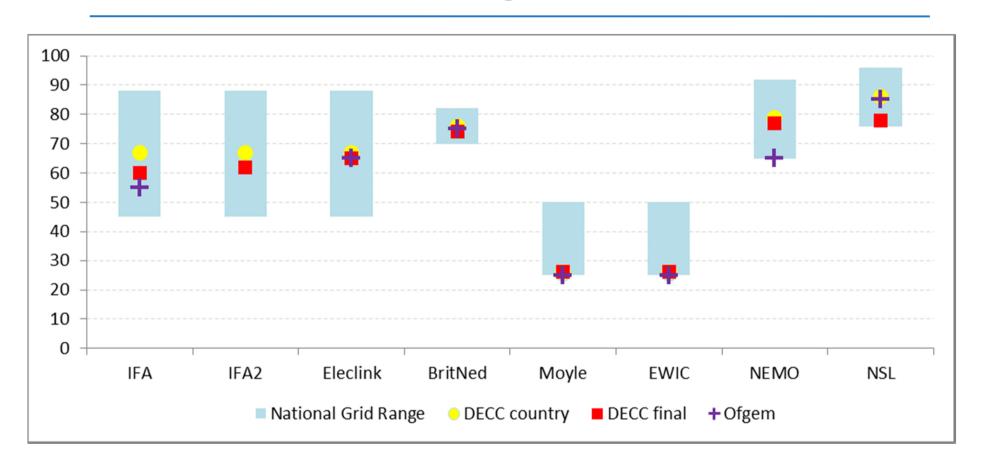
Same as FES2017 but with more experience so processes and analysis should be improved, particularly with European FES scenarios.

30 year history 63

Interconnector de-rating factors for 2017/18



Interconnector de-rating factors for 2020/21



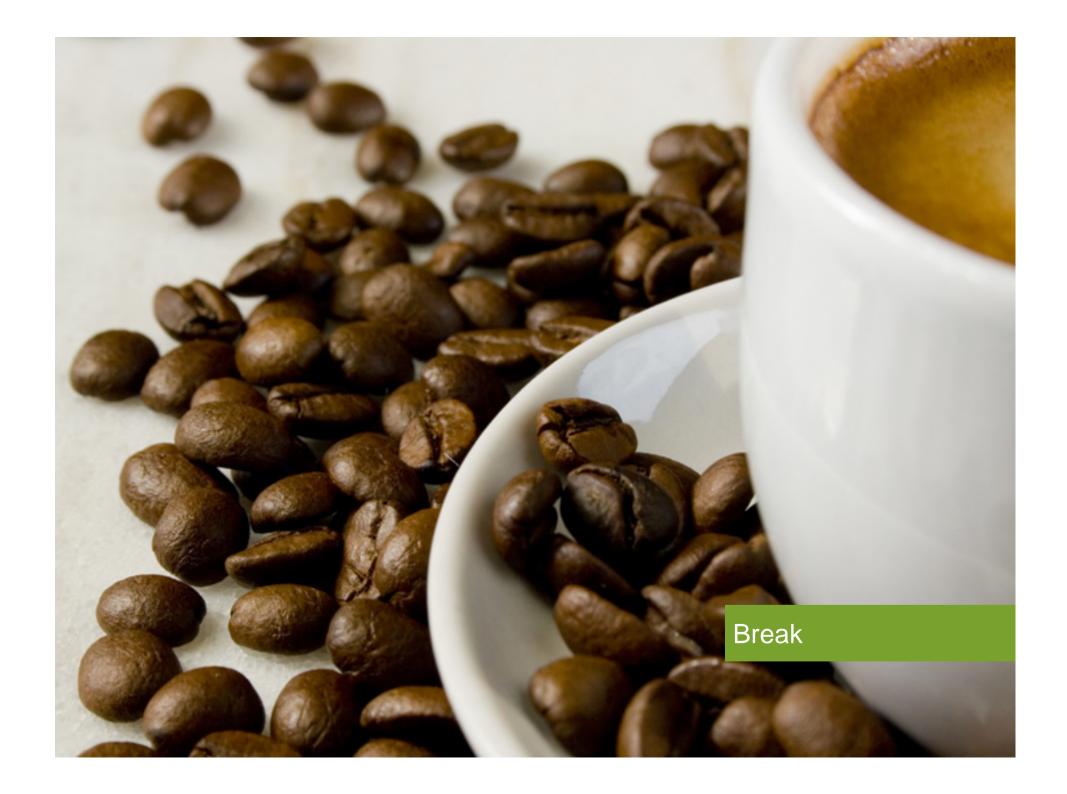
Conventional plant de-rating factors

2016 Conventional plant de-rating factors

| Technology class | Plant types included | Early Auction 2017/18 | T-4 2020/21 |
|---|--|-----------------------|----------------|
| Oil-fired steam generators | Conventional steam generators using fuel oil | 85.44% | 85.44% |
| OCGT and reciprocating engines (non-autogeneration) | Gas turbines running in open cycle fired mode Reciprocating engines not used for autogeneration | 94.17% | 94.17% |
| Nuclear | Nuclear plants generating electricity | 84.36% | 84.36% |
| Hydro | Generating Units driven by water, other than such units: (a) driven by tidal flows, waves, ocean currents or geothermal sources; or (b) which form part of a Storage Facility | 86.16% | 86.16% |
| Storage | Conversion of imported electricity into a form of energy which can be stored, the storing of the energy which has been so converted and the re-conversion of the stored energy into electrical energy Includes hydro Generating Units which form part of a Storage Facility (pumped storage hydro stations). | 96.29% | 96.29% |
| CCGT | Combined Cycle Gas Turbine plants | 87.60% | 90.00% |
| CHP and autogeneration | Combined Heat and Power plants (large and small-scale) Autogeneration – including reciprocating engines burning oil or gas | 90.00% | 90.00% |
| Coal / biomass | Conventional steam generators using coal or biomass | 86.92% | 86.92% |

We are keen to hear your views on how we determine conventional plant de-rating factors. Should we continue with / evolve the current approach or should we do something different?

Questions







Ofgem update.

NGET CM event, 19/7/16 David O'Neill, Ofgem

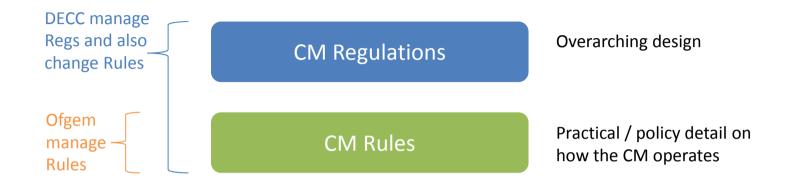


Today:

- 1. This year's CM rule change process
- 2. Ofgem's (other) roles in the CM
- 3. Questions



Overview of CM governance





This year's CM rules change process: recent past

- We received 70 proposals in January (+ nine of our own)
- We consulted in April: 23 responses
- We published our decision in early July: Take forward 28 changes, consider further 3 changes
- We published the consolidated Rules last week



This year's CM rules change process: coming next

We will consult soon on:

- the definition of Mandatory CMUs to ensure it no longer includes any types of 'excluded capacity' as defined by the Regulations .
- **the LFCO formula** to ensure it scales obligations correctly during the first delivery year of the Transitional Arrangements.

There are other changes we are also taking forward:

- connection capacity.
- adding DSR capacity (when delivery partner systems are ready to enable the change).

We are looking at moving away from an annual cycle of rule changes.



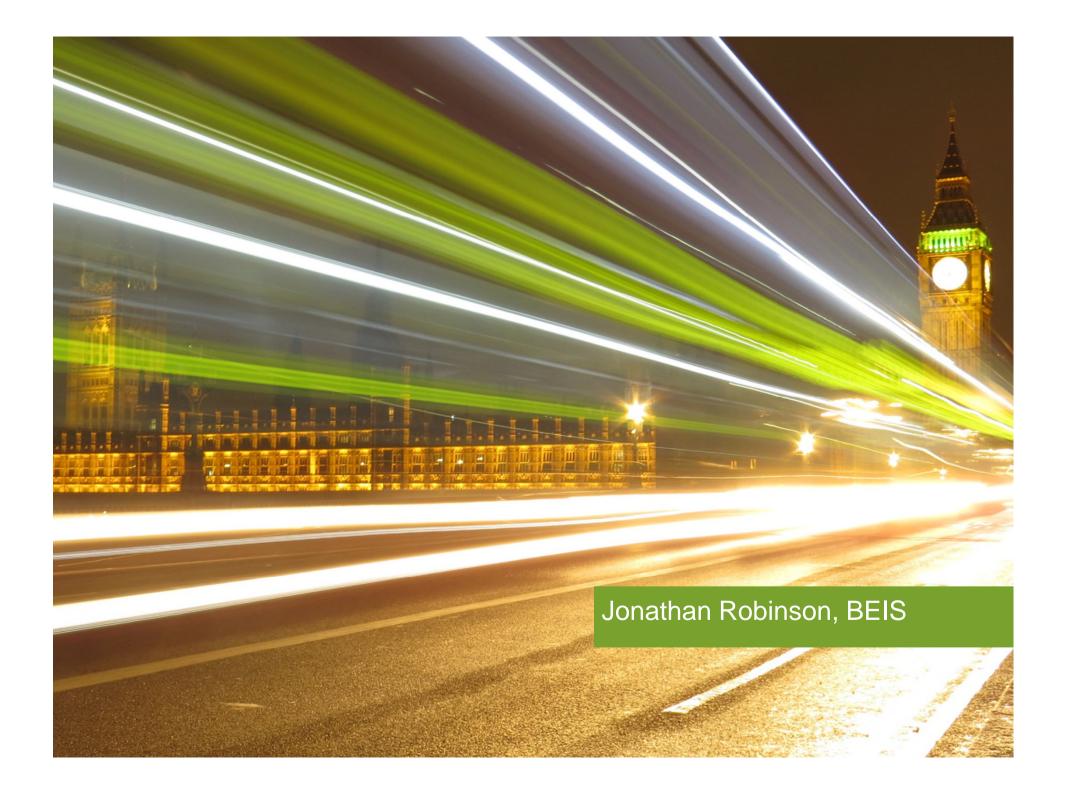
Ofgem's other CM roles

- Receiving Price Maker memorandums
- Monitoring and taking enforcement action
- Overseeing NGET's delivery of EMR roles
- Reporting on the operation of the CM and NGET's delivery



Questions / Thank you

NGET CM event, 19/7/16 David O'Neill, Ofgem





Consultation and Policy Update

19 July 2016

Jon Robinson



The new Department for Business, Energy and Industrial Strategy

- The Prime Minister appointed Greg Clark as Secretary of State for Business, Energy and Industrial Strategy on 14 July.
- There is a clear and strong rationale from the Prime Minister for this change.
 - It enables a united focus on markets, investors and consumers.
 - The new Department will work to promote the UK's global competitiveness, affordability, innovation and growth.
 - It will make sure we have the 21st century infrastructure we need.
 - Business will have a strong champion in government.
- Energy and climate change will continue in a single department ensuring efficient paths to carbon reduction.

"I am thrilled to have been appointed to lead this new department charged with delivering a comprehensive industrial strategy, leading government's relationship with business, furthering our world-class science base, delivering affordable, clean energy and tackling climate change."



Secretary of State for Business, Energy and Industrial Strategy Greg Clark

Consultations

- Two formal consultations:
 - The October 2015 consultation
 - The March 2016 consultation
- Formal and informal consultation indicated
 - fundamental support the capacity mechanism
 - but that it needs to buy more capacity and buy it earlier to fully realize the intention of supporting investment in new secure generation.

WHAT WE CONSULTED ON

- New build assurance
- Termination fees
- Cumulation of State aid
- Eligibility for Transitional Arrangements
- Prequalification timings
- Review of the Capacity Market rules
- Proposals to introduce an early capacity auction in 2017 for the delivery year 2017/18

What we decided

- bring forward the Capacity Market by holding an early auction in January 2017 for delivery in 2017/18
- increase pre-auction credit cover requirements for new build bidders
- increase termination fees for those who renege on their capacity agreements
- narrow eligibility of the second TA to turn down DSR and reduce the minimum threshold level for participation in the TA from 2MW to 500kW
- unproven DSR will be eligible to bid into the T-4 auction
- make changes to the Regulations regarding the timing and processes associated with the prequalification procedure
- not to make a final decision on cumulation of State Aid but instead to consult further on our proposals in Autumn 2016

CAPACITY MARKET ANNOUNCEMENTS JULY 2016

- The Government response to March consultation and related Impact Assessment.
- Secretary of State letter setting out determination that three capacity auctions will be held:
 - T-4,
 - Early Capacity Auction and
 - TA auction).
- The Regulations were made
- The (DBEIS) Rules were laid

The Electricity Capacity (Amendment) Regulations 2016

- The Electricity Capacity (Amendment) Regulations 2016 No. 742 -published to legislation.gov.uk: http://www.legislation.gov.uk/id/uksi/2016/742
- The Regulations implement the outcomes of the two consultation exercises above, in particular through:
 - the Early Capacity Auction, to mitigate the increased risk to security of supply in 2017/18;
 - tougher sanctions to incentivise those who win a capacity agreement to deliver that capacity;
 - a secondary trading market to support investment; and
 - targeting funding through the next DSR transitional auction to turn-down DSR.

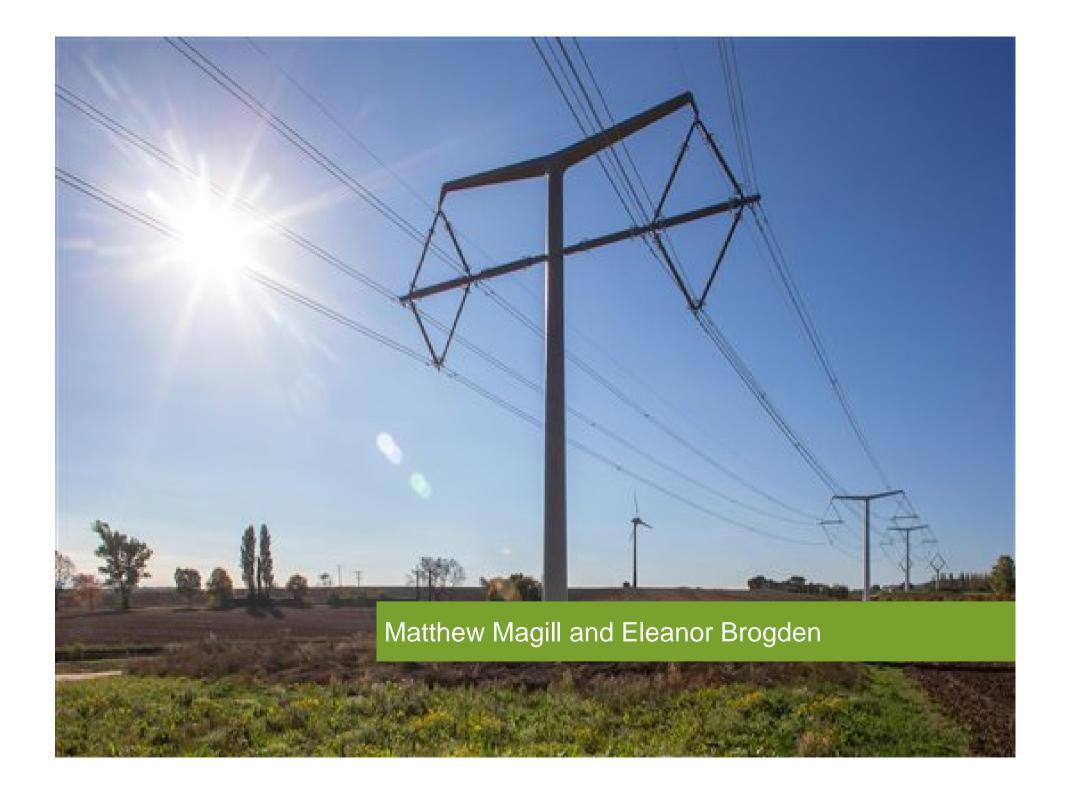
Capacity Market Rules

- The (DBEIS and Ofgem) Rule changes and informal consolidation are now live on the website: https://www.gov.uk/government/publications/capacity-market-rules
- The rules provide the detail for implementing the operating framework set out in regulations.
- The DBEIS rule amendments:
 - Early Capacity Auction detail
 - Requirements for new-build CMUs
 - Termination fees
 - Obligation trading and volume reallocation
 - Transitional Action eligibility and metering
 - Review of the Rules
 - Operational timetable

Next steps

We expect:

- to consult again on a small number of issues including: cumulation of State Aid and; supplier levy arrangements in <u>Autumn 2016</u>
- further updates from Defra on emissions regulations
- further updates from Ofgem on their embedded benefits review





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 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 company main administrator
- Companies previously registered will not need to register again
- A single Registration allows applications for T-4, Early and Transitional Auctions

Registering for CM Prequalification



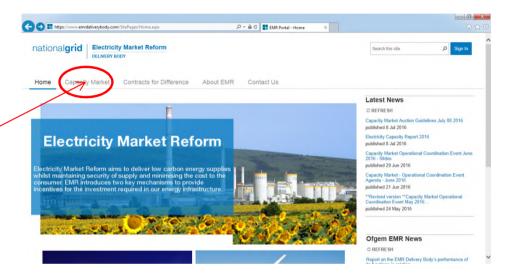
- Each Company needs to nominate at minimum
 - Company Secretary/Director (Authorised Person) somebody recognisable in the public domain –
 - Portal Company "Main Administrator"
- Proposed "Main Administrator" fills in online form to nominate themselves. Also completes details of Authorised Person
- 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 are password and PIN protected

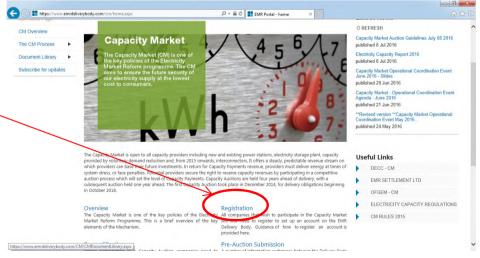
Registration



- To register go to www.emrdeliverybody.com
- Click on "Capacity Market"

- Scroll to the Registration link and click it
- Follow the on-screen instructions to complete the Registration form

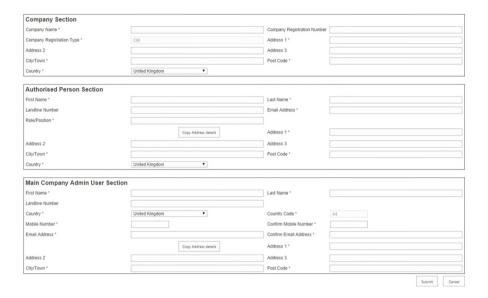




Registration Form



- Registration form contains the key data items to set up the Main Company account in the Portal
- Important that email and mobile numbers are accurate as these used to issue passwords and PINs



- Copy of registration form must be printed on company letter head, and signed by a director or company secretary
- Please register at your earliest opportunity, registration is open 365 days of the year and may be done ahead of any prequalification application



PREQUALIFICATION

Prequalification Overview





- Prequalification is required to "verify" 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
 - Applications must be submitted by the end of the Prequalification Window, via the EMR portal, by <u>1700 on</u> <u>Friday 26 August</u>

Prequalification Overview





- Key prequalification dates for 2015
 - System is updated & now available
 - Applications, company registrations & structures, can be built now in advance of the submission window
 - Submission Window Opens: 0900 Monday 01 August
 - Submission Window Closes: 1700 Friday 26 August
 - Prequalification Results Day: Friday 23 September
 - Only Applicants informed of their results in 2016 CM Register is published by 1700 14 October

Prequalification Overview



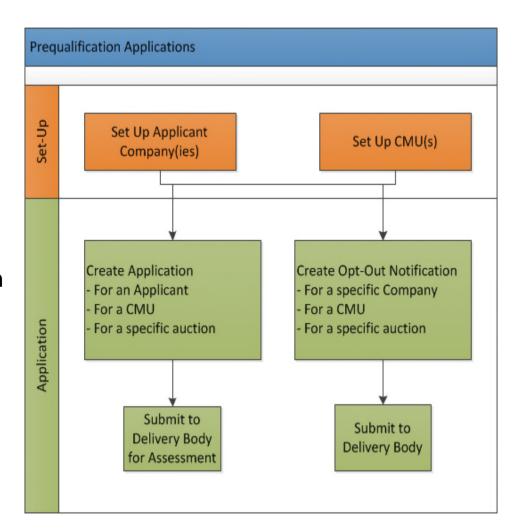


- Prequalification process "user driven"
 - System is designed to guide parties through the prequalification process
 - National Grid DB is able to answer queries about the prequalification portal
 - National Grid DB will not be available to give "advice" about how a project should be presented into prequalification
 - No contact with National Grid DB during the assessment window (23 August till 23 September).

Generic Structure of an Application



- Applications submitted in respect of a CMU and an Applicant Company
- Data and documents for these are inputted prior to the Application being created
- Data then transferred from CMU and Company into the Application (and can be reused for other future Applications)



Setting up a Company



Set Up Applicant Company(ies)

- Basic company information created through a comparty registration process
- Following items also able to be uploaded against a company where it is required
 - A copy of the company's Certificate of Incorporation
 - Prequalification Certificate
 - Certificate of Conduct
 - If the Applicant is part of a Group the name of its direct Holding Company this is not provided in the system PLEASE DETAIL THIS ON THE PREQUALIFICATION CERTIFICATE IF APPLICABLE
 - Where applicable, confirmation of an interconnection licence
 - Legal Opinion & Bank Account details these items were removed in 2015 but are still present in the system, they do not need to be filled in

CMU Type and Classification



- CMU Type is defined in the Regulations and the Rules
- The Applicant must select the correct CMU Type as you will be assessed as the Type you select & this cannot be changed
- The CMU Type selected drives the rest of the application

| If CMRS CMU | If Non- CMRS |
|---------------------------------|-----------------------------|
| Existing Generating CMU | Existing Generating CMU |
| Existing Interconnector CMU | New Build Generating CMU |
| New Build Generating CMU | Refurbishing Generating CMU |
| New Build Interconnector CMU | Proven DSR CMU |
| Refurbishing Generating CMU | Unproven DSR CMU |
| Refurbishing Interconnector CMU | |

Ref. CMU Classification – CMRS and Non-CMRS



| CMRS CMUs | Non CMRS CMUs |
|--|--|
| Transmission CMU A Generating or Interconnector CMU, each Unit of which Exports to the Transmission Network. The Metering System for the corresponding BMU is registered in the Central Meter Registration Service in accordance with the BSC. Or | Non-CMRS Distribution CMU A Generating Unit, each Generating Unit of which supplies Electricity to a Distribution Network. The Metering System is not registered with the Central Meter Registration Service. Proven DSR CMU A DSR CMU for which a DSR test has been carried out. |
| CMRS Distribution CMU A Generating or Interconnector CMU, each Unit of which Exports to a Distribution Network. The Metering System for the corresponding BMU is registered in the Central Meter Registration Service in accordance with the BSC. | Unproven DSR CMU A DSR CMU for which a DSR test has not been carried out. |

Ref. Generating CMU Types



| CMU Type | Definition |
|--------------------------------|---|
| Existing Generating CMU | Regulation 4 – An Existing Generating Unit (or combination of two of more units) which provides electricity, is capable of being controlled independently from any other generating unit, net output is measured by half-hourly meters and has a connection capacity not less than the minimum capacity threshold (2MW). |
| New Build Generating CMU | Regulation 4 – a Prospective Generating Unit (or combination of 2 or more units) which, when commissioned, will be capable of being controlled independently from any other generating unit, net output is measured by half-hourly meters and has a connection capacity not less than the minimum capacity threshold (2MW). A Prospective Generating Unit means a generating unit or proposed generating unit that has not been commissioned. |
| Refurbishing Generating CMU | CM Rules and Regulation 4 – an Existing Generating Unit which is the subject of an Application as a Prospective Generating CMU by virtue of an improvements programme that will be completed prior to the commencement of the first Delivery Year. |

Ref. Interconnector CMU Types



| CMU Type | Definition |
|---------------------------------------|---|
| Existing Interconnector CMU | Regulation 5A – An Interconnector that has been commissioned, has a connection capacity greater than 2MW and the net output is measured by one or more half hourly meters. |
| New Build Interconnector CMU | Regulation 5A – an electricity interconnector or prospective interconnector which is not yet commissioned and, when commissioned, will have a connection capacity greater than 2MW and the net output is measured by one or more half hourly meters. |
| Refurbishing Interconnector CMU | CM Rules and Regulation 5A – an Existing Interconnector which is the subject of an Application as a Prospective Interconnector CMU by virtue of an improvements programme that will lead it to be recommissioned prior to the start of the Delivery Year. |

Ref. DSR CMU Types



| CMU Type | Definition |
|---------------------|--|
| Proven DSR CMU | Regulation 5 - A DSR CMU for which a DSR test has been carried out. The DSR provider must, in relation to each component, be the DSR customer, own the DSR customer or have contractual control over the DSR Customer. |
| Unproven DSR CMU | Regulation 5 - A DSR CMU for which a DSR test has not been carried out. The DSR provider must, in relation to each component, be the DSR customer, own the DSR customer or have contractual control over the DSR Customer. |

Setting up a CMU: Data Requirements



Set Up CMU(s) → Generating CMU Generating CMU Transmission Connected Refurbishin BM Participant Existing -Existing -New Build The types of Opt Out Opt In g CMU are Generating CMU defined in Distribution Connected Additional Information Regulations BM Participant → DSR CMU and Rules Generating CMU All CMUs Transmission Connected Different Unproven Proven DSR Not a BM Participant Additional DSR Information is required in DSR CMU an Not a BM Participant Application Interconnector CMU for each type Interconnector CMU Transmission Connected Refurbishin Existing -Existing -New Build **BM Participant** Opt Out Opt In g

The Prequalification System will "walk the user through" the data entry process

Setting up a CMU All CMUs – CMU Information



Set Up CMU(s)

| Information | Details | Comment |
|--------------------------------|--|--------------------------------|
| Nomination relating to the CMU | Name of CMU Type of CMU – which sets the Additional Information Required | System generated Drop-Down Box |

CMU Component Information

| Information | Details | Comment |
|--|--|---|
| Nomination relating to the CMU Component | Description of and location of the CMU component MPAN numbers and other relevant meter numbers BMU ID or Balancing Services ID (if applicable) | Data to be entered in Prequalification System |
| Connection Capacity & Tech. Class | Connection Capacity or DSR Capacity of a component Technology Class of a component | (The system aggregates these to give CMU Connection Capacity) |

Setting up a CMU All CMUs – CMU Information



Set Up CMU(s)

Metering Information (now optional for 2016 Applications)

| Information | Details | Comment |
|------------------------|--|---------|
| Metering Assessment | Questions to establish if the Settlement Body will need to carry out a further detailed check of metering arrangements | |
| Metering Info | Line Diagrams and other data on the CMU's metering set-up | |
| Metering Config. | Confirmation of CMU's Approved Metering Configuration | |

Contact Details for Secondary Trading

| Information | Details | Comment |
|-------------------------------|---|---|
| Email Address & Telephone No. | Email Address and Telephone Number that can be used by a person wishing to discuss secondary trading in relation to the CMU | This is not provided in the system – DETAILS FOR HOW TO FOLLOW |

Primary Fuel Type

| Information | Details | Comment |
|----------------------|--|---------------------------------------|
| Primary Fuel Type | For Generating CMUS only, the Primary Fuel Type intended for the CMU at the time the Application is made | Please choose from the drop down menu |
| • | OCGT & reciprocating engines – gas, diesel, & other | in the CM Type |

Setting up a CMU Existing Generating CMU



Set Up CMU(s)

| Information | Details | Comment |
|-----------------------|--|--|
| Connection Agreements | Transmission Connected: Copy of one or more Grid Connection Agreement for at least the De-rated capacity by the start of the Delivery Year, or confirmation that they will have TEC by no later than 18 months prior to the delivery year Distribution Connected – one of: a)Copy of one or more Distribution Connection Agreement for at least the de-rated capacity during the Delivery Year b)Copy of one or more Distribution Connection Offer for at least the de-rated capacity during the Delivery Year For Private Network connections – a letter from the owner of that private network confirming the full output that CMU is able to export to the network and that the owner of the Private Network has a Distribution Connection Agreement or Offer. | This must be uploaded in electronic copy |

Setting up a CMU New Build Generating CMU



| Information | Details | Comment |
|----------------------|---|--|
| Planning Consents | Legal right to use the land and all Relevant Planning Consents obtained (or able to defer declaration to 22 Days before auction) Documentary evidence of Planning Consents Additional Planning Consent requirements: If Planning Consent "time limited" evidence that the end date of the consent is after the expiry of any future Capacity Agreement If the MW capacity granted by the planning consent is less than the connection capacity of the CMU evidence justifying the difference | Declaration, evidence of Consents, and confirmation of right of use of land. |

Setting up a CMU New Build Generating CMU



| | | | <u> </u> |
|-------------------|--|-----------------------------------|--------------|
| Information | Details | Comment | |
| Construction Plan | Brief description of the works Schedule identifying: a) Signing of EPC/equivalent Major Contract b) Start of construction works c) Main Foundations Complete d) Gas/Steam Turbine Delivery e) Back-feed Milestone f) First Firing g) Substantial Completion Milestone Amount of Capital Expenditure proper to be incurred within 77 months of the commencement of the Delivery Year. That the expected Capital Expenditure exceeds 3 or 15 year thresholds (£130/kw and £255/kw) Capital Expenditure not previously considered in respect of any CMU which has a Capacity Agreement | Data to be en in Prequalification | ation System |

Setting up a CMU New Build Generating CMU



| Information | Details | Comment |
|----------------------|--|--|
| Connection Agreement | Transmission Connected: Copy of one or more Grid Connection Agreement for at least the De-rated capacity by the start of the Delivery Year, or confirmation that they will have TEC by no later than 18 months prior to the delivery year (6 months prior for the Early Auction) Distribution Connected – one of: a)Copy of one or more Distribution Connection Agreement for at least the de-rated capacity by the start of the Delivery Year b)Copy of one or more Distribution Connection Offer or at least the de-rated capacity by the start of the Delivery Year c)Declare the CMU will have such a connection offer at least 18 months prior to start of Delivery Year (6 months prior for the Early Auction) d) For private wire connections Confirmation that the owner of the Private Network will have an agreement with the relevant DNO at least 18 months prior to the start of the Delivery Year. (6 months prior for the Early Auction) | Soft Copy to be uploaded with application |
| Credit Support | Credit support to cover Termination Fee(s) and Draw Downs Unless Credit Cover remains in place for the same CMU from a previous auction – this must be declared in the Application using any of the free text boxes and flagged to the Settlements Body. | Follows after Prequalification Results Day |

Setting up a CMU Refurbishing Generating CMU



- A Refurbishing CMU must provide Additional Information to cover both possible states of the CMU or submit an "Opt-Out Declaration for the "Pre-Refurbishment CMU" if it is a "Mandatory CMU":
 - Exceptions
 - Planning Consents declaration not needed if no further consents required please state if this is the case
 - Construction Plan need not specify a "Back-Feed Milestone"
 - Capital Expenditure allowed is that spent from Auction Results Day to start of Delivery Year
- Must also make additional statement in Prequalification Certificate if multi-year agreement is needed to undertake the refurbishment

Setting up a CMU Proven DSR



| Information | Details | Comment |
|---------------------------------|--|--|
| DSR Test Certificate | DSR Test or Joint 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 Template for Business Model for a Proven DSR CMU Proven DSR CMU to which the Business Model Applies (insert CMU ID) | Data to be entered directly in Prequalification System |
| Business Model | Name & Location of CMU component Com | Data to be entered directly in Prequalification System Please note the new |
| | By signing this DSR Business Model I declare that it is 1) to the best of my knowledge and belief based upon reasonable assumptions; 2) an accurate description of the manner in which any DSR Capacity has been secured; & 3) not misleading. Please delete one of the following statements: A For TA Auction for delivery 2017/18 only By signing this DSR business model I declare that none of the DSR capacity is achieved by a Generating Unit (as defined, in accordance with Rule 11.3.2A) B This Business Model is not in respect of an Application for the TA Auction for Delivery Year 2017/18 | declarations |
| ebMM | Signed: Date: | |

Setting up a CMU Unproven DSR (1 of 2)



Setting up a CMU Unproven DSR (2 of 2)



| Information Relating to: | Details | Comment |
|--------------------------|--|---------|
| DSR Test Certificate | Confirmation that the a DSR Test will be completed prior to the start of the relevant Delivery Year | |
| Metering Assessment | Confirmation the a Metering Assessment will be completed and if necessary a Metering Test will be completed in each case prior to the start of the relevant Delivery Year | |
| Credit Support | Credit support to cover Bid Bond To be provided to Settlement Body Unless Credit Cover remains in place for the same CMU from a previous Auction – this must be declared in the Application using one of the free text boxes | |

Setting up a CMU Existing Interconnector CMU



| Information | Details | Comment |
|---------------------------|--|--|
| Interconnector Licence | Declare whether the Applicant holds an Interconnector Licence at time of applying. | |
| Connection Agreements | Provide copy of Connection Agreement (Grid Connection Agreement(s) or Distribution Connection Agreement(s) or letter from DNO) confirming that they permit the Generating Unit in the CMU in aggregate to export at least the Anticipated De-rated Capacity of the CMU | This must be uploaded in electronic copy |
| Technical Data | Technical specifications of the Interconnector Country interconnector connects to GB Forecast technical reliability for the relevant Delivery Year | Data to be entered directly in Prequalification System |

Setting up a CMU New Build Interconnector CMU



| Information | Details | Comment |
|----------------------|---|--|
| Planning Consents | Legal right to use the land and all Relevant Planning Consents obtained (or able to defer declaration in 2015 to 22 days before auction) Documentary evidence of Planning Consents Additional Planning Consent requirements: If Planning Consent "time limited" evidence that the end date of the consent is after the expiry of any future Capacity Agreement If the MW capacity granted by the planning consent is less than the connection capacity of the CMU evidence justifying the difference | Declaration, evidence of Consents, and confirmation of right of use of land. |

Setting up a CMU New Build Interconnector CMU



| Information | Details | Comment |
|-------------------|---|--|
| Construction Plan | Brief description of the works Schedule identifying: a) Signing of EPC/equivalent Major Contract b) Start of construction works c) Main Foundations Complete d) Commencement of Cable Laying* e) Back-feed Milestone f) First Test Connection Date* g) Substantial Completion Milestone The Total Project Spend for the construction of the New Build Interconnector CMU. Capital Expenditure not previously considered in respect of any CMU which has a Capacity Agreement | Data to be entered directly in Prequalification System * - These items are worded as per the generation equivalents in the Portal |
| Technical Data | Technical specifications of the Interconnector Country interconnector connects to GB Forecast technical reliability for the relevant Delivery Year | Data to be entered directly in Prequalification System |

Setting up a CMU New Build Interconnector CMU



| Information | Details | Comment |
|-------------------------|--|--|
| Connection Agreement | A copy of one or more Grid Connection Agreements with sufficient Transmission Entry Capacity for at least the De-Rated capacity secured by the start of the Delivery Year | Soft Copy to be uploaded into Auction System |
| Credit Support | Credit support to cover Non-Completion Fee @ £5,000/MW To be provided to Settlement Body Unless Credit Cover remains in place for the same CMU from a previous auction – this must be declared in the Application using one of the free text boxes & flagged to the Settlements Body. | Follows after Prequalification Results Day |

Setting up a CMU Refurbishing Interconnector CMU



- A Refurbishing Interconnector CMU must provide Additional Information to cover both possible states of the CMU; or submit an "Opt-Out Declaration for the "Pre-Refurbishment Int. CMU":
 - Exceptions
 - Planning Consents declaration is not needed if no further consents required, but please state the same
 - Construction Plan need not specify a Back-Feed Milestone
 - Capital Expenditure allowed is that spent from Auction Results Day to start of Delivery Year
- Must also make additional statement in Prequalification Certificate that multi-year agreement is needed to undertake the refurbishment

Setting up a CMU & Application / Opt-Out



- Bulk of all data required is set up against a CMU and, when completing the Application / Opt-out Notification, the system will copy all of the appropriate CMU and company data into the Application / Opt-out.
- This data once set-up can be reused each year if it has not changed.
- If some data changes then the new data can be updated without having to upload all of the unchanged data again.

Creating an Application



Create an Application

Information Details Comment

If the Application is from a company acting as the Despatch Controller or Joint Owner for the CMU then an Applicant Declaration signed by Directors of both the Legal Owner and the Despatch Controller / Joint Owners is required

| | | Appl | Icant Declaration |
|---|-------------------------|---|--|
| (Part | y <i>Bj</i> (respec | the "Despatch Controller" and, t to the following Generating CMU | are made jointly by [Party A] (the "Legal Owner") together with the Legal Owner, the "Relevant Part J: |
| Des | cription | of CI(#U to be inserted), | |
| | | want CMU") and in relation to Application"). | the Application to which this declaration relates |
| (a) | Each | of the Relevant Parties hereby of | onfirms that: |
| | (1) | the Legal Owner is the legal of CMU; and | wner of each Generating Unit comprised in the Rele |
| | (II) | the Despatch Controller has comprised in the Relevant CMU | Despatch Control with respect to each Generating . |
| (D) | Each | of the Relevant Parties hereby d | eclares that: |
| | (1) | the Despatch Controller is the Application; | Applicant for the Relevant CMU in relation to the Rele |
| (II) In the event that the Relevant CMU becomes a Prequalified CMU for the Cap Auction to which the Relevant Application relates, the Despatch Controller will be Bidder for the Relevant CMU in that Capacity Auction; and | | | |
| | (III) | In the event that the Relevant CMU becomes a Capacity Committed CMU pursuant the Capacity Auction to which the Relevant Application relates, the Despatch Control will be the Capacity Provider for the Relevant CMU. | |
| | | terms in used herein have the nowise indicated. | nearing given to them in the Capacity Market Rules : |
| DAT | ED: [•] | ı | |
| Sign | ed for | and on behalf of the Legal Owner | |
| Dire | ctor | | Director ¹ |
| Print | Name | | Print Name: |
| Sign | ed for | and on behalf of the Despatch Co | ntroller |
| Dire | ctor | | Director ¹ |
| Print | Name | E | Print Name: |
| | | | |

| E | EXHIBIT DA: FORM OF JOINT OWNER D INTERCONNECTO | | | |
|---|--|---|--|--|
| | Joint Owner Declaration for an Existi | ng Interconnector CMU | | |
| The following confirmations and declarations are made by [Party A: Party B: Party C as applicable] (the "Relevant Parties") who are together the Joint Owners in relation to the following interconnector CMU (the "Relevant CMU") and/or its associated Non-GB Part. | | | | |
| (Descrip | ption of Interconnector CINU and Non-GB Part to b | e inserted) | | |
| and are | e made in relation to the Application for the Relevan | t CMU (the "Relevant Application"). | | |
| | Each of the Relevant Parties hereby confirms that Relevant CMU; and | at each is a Joint Owner in relation to the | | |
| (b) E | Each of the Relevant Parties hereby declares that: | | | |
| (1 | [Pact,] is the Applicant for the Relevant Cf "Applicant Party"); | IU in relation to the Relevant Application (the | | |
| (1 | In the event that the Relevant CMU beco Auction to which the Relevant Application re for the Relevant CMU in that Capacity Auction | lates, the Applicant Party will be the Bidder | | |
| (1 | (III) In the event that the Relevant CMU become the Capacity Auction to which the Relevant of the Capacity Provider for the Relevant CMU. | | | |
| | ised terms used herein have the meaning given otherwise indicated. | to them in the Capacity Market Rules 2014 | | |
| DATED: | : [•] | | | |
| Signed I | for and on behalf of: | | | |
| Director | r Direct | lor | | |
| Print Na | ame: Print | Name: | | |
| by the which is | executed by each Relevant Party by the signature Capacity Market (Amendment) Rules 2014) appli is not a UK-registered company (in which case it which the company is incorporated). | les, or execution is on behalf of a company | | |
| | | | | |

| EXH | BIT DC: FORM OF JOINT OWNER DECLARATION FOR PROSPECTIVE INTERCONNECTOR CMU | | |
|------------|---|--|--|
| | Joint Owner Declaration for a Prospective Interconnector CMU | | |
| (the "Reli | wing confirmations and declarations are made by [Party A; Party B; Party C as applicable] want Parties") who are together the Joint Owners in relation to the following interconnector "Relevant CMU") and/or its associated Non-GB Part: | | |
| (Descript) | on of Interconnector CI/IU and Non-GB Part to be inserted] | | |
| and are n | nade in relation to the Application for the Relevant CMU (the "Relevant Application"). | | |
| | ch of the Relevant Parties hereby confirms that each is a Joint Owner in relation to the levant CMU; and | | |
| (b) Ea | th of the Relevant Parties hereby declares that: | | |
| (1) | [Bacty] is the Applicant for the Relevant CMU in relation to the Relevant Application (the "Applicant Party"); | | |
| (11) | Ig the event that the Relevant CMU becomes a Prequalified CMU for the Capacity Auction to which the Relevant Application relates, the Applicant Party will be the Bidder for the Relevant CMU in that Capacity Auction; | | |
| (111) | Ig the event that the Relevant CMU becomes a Capacity Committed CMU pursuant to the Capacity Auction to which the Relevant Application relates, the Applicant Party will be the Capacity Provider for the Relevant CMU; | | |
| (IV | any statement or declaration made or deemed to be made by the Applicant Party as Applicant, Bioder or Capacity Provider in accordance with the Capacity Market Rules 2014 is made or deemed to be made by or in respect of all Relevant Parties; | | |
| (v) | any, certification required to be made by the Applicant, Bidder or Capacity Provider in accordance with Capacity Market Rules, Including the Prequalification Certificate and the Certificate of Conduct, its make by or in respect of all Relevant Parties. | | |
| | d terms used herein have the meaning given to them in the Capacity Market Rules 2014 envise indicated. | | |
| DATED: [| •1 | | |
| Signed fo | and on behalf of | | |
| Director | Director | | |
| Print Nan | e: Print Name: | | |
| by the C | oculed by each Relevant Party by the signature of two directors, unless Rule 1:3A (inserted apacity Market (Amendment) Rules 2014) applies, or execution is on behalf of a company not a UK-registered company (in which case it is to be duly executed under the law of the minor the company is inconvoirable). | | |

Previous Performance (Existing Generating CMUs, Existing Interconnector CMUs or pre-refurbishing element of Refurbishing CMUs only) Identify 3 Settlement Periods of highest metered output in two most recent calendar years of operation (up to 1 month before the start of the Prequalification Window) when de-rated capacity was delivered Confirmation of output and optional line loss factor methodology applied for non-CMRS generating CMUs in letter from Supplier, or evidence that output provided via balancing service

If a plant has been mothballed, then this could be in the last two years of operation, but it is key that the dates are identified for National Grid.

MM...MM

Creating an Application



Create an Application

Finally a set of declarations must be completed within the Application

| Information | Details | Comment |
|--------------------------|--|--|
| STOR Declaration | Applicant must also declare that either: a) It is not the subject of a Relevant STOR Contract or b) It is the subject of a Relevant STOR Contract but irrevocably undertakes to withdraw from the contract should it be awarded a Capacity Agreement | Tick Box Declarations in Application |
| Low Carbon Exclusions | - Declarations relating to Low Carbon Exclusions and Low Carbon Grants | Tick Box Declarations in Application |

Creating an Opt-Out Notification



Create an Opt-Out Notification

For an Opt-Out Declaration a CMU must be created and CMU Component data submitted (as if for an Existing CMU) before its Opt-Out Status is confirmed

| Information | Details | Comment |
|----------------|---|---|
| Status Details | Must declare whether and provide reason for: a) Will be permanently non-operational by the start of the Delivery Year b) Will be temporarily non-operational for all the Winter of the Delivery Year c) Will remain operational for the Delivery Year | Data to be entered directly in Pre-Qual System |

Prequalification Results Day



National Grid will provide a notification to each party that submitted an Application informing them if they were disqualified, successful, or otherwise by 1700 on Prequalification results day. It will contain:

- Whether the unit has prequalified, what classification it is, and if it has:
 - The De-rated capacity of the CMU
 - If New Build or Unproven DSR or if TEC deferred that Prequal status is provisional pending Credit Support
 - If Planning Consents deferred that Prequal status is provisional pending declaration that Consents obtained
 - That the CMU is a Price-Taker if Existing Generating CMU or an Interconnector CMU, Price-Maker if otherwise
 - The maximum period the CMU may bid for a Capacity Agreement
 - Whether the CMU is a Transmission CMU, a CMRS Distribution CMU, a non-CMRS Distribution CMU, an Interconnector CMU or a DSR CMU
 - Whether a Metering Test will be required in the event the CMU successfully bids for a capacity agreement.

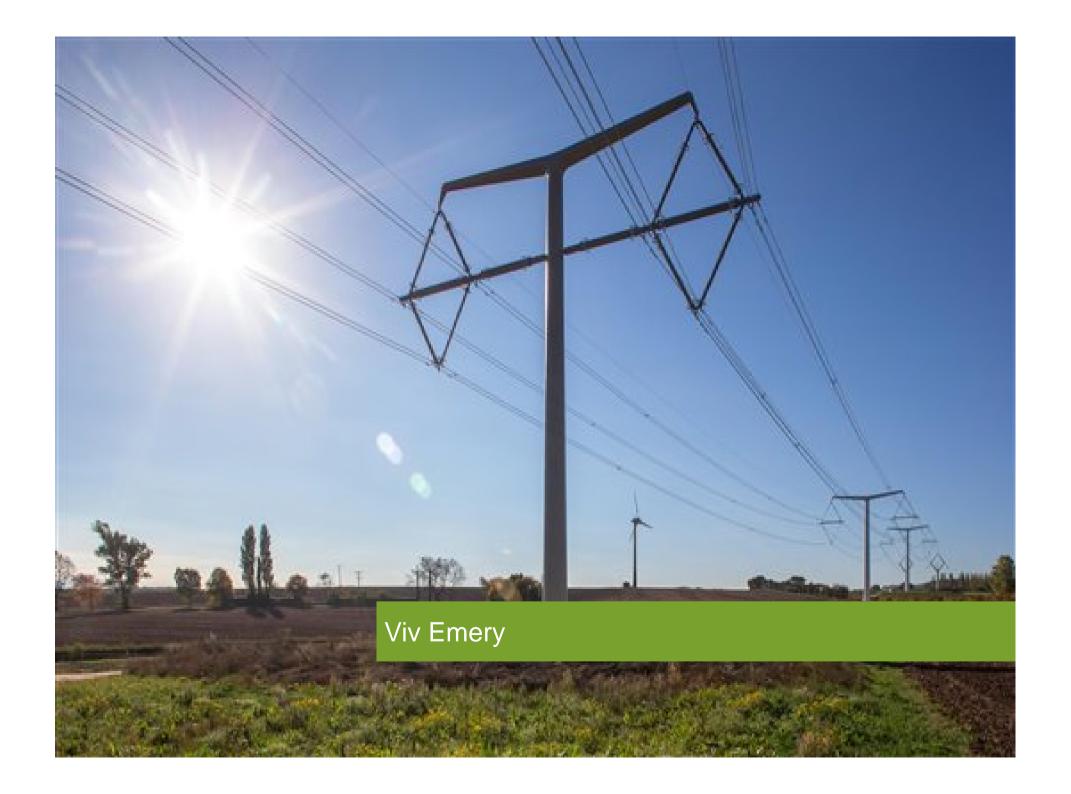
Prequalification Results



| Notice of Prequalification success | | | |
|---|---|--|--|
| Prequalification Decision | Prequalified or Conditionally Prequalified | | |
| Applicant | Applicant xxxa | | |
| Identity of CMU | CMU xx1 | | |
| Type of CMU | CMU Type | | |
| De-rated Capacity | XMW | | |
| Whether the unit is currently prequalified as a Price-Maker or Price-Taker | Price-Maker/ Taker | | |
| If successful at Auction is the CMU subject to a Metering Test | Metering test required/not required | | |
| Whether Prequalification is conditional on providing credit support pursuant to Rule4.5.1 (b) (ii) or 4.5.1 (b) (iii) or 4.5.1 (b) (iv) | Conditional – Please provide [the required amount of collateral] to the Settlemen Body. | | |
| Whether Prequalification is conditional on providing Planning Consents requirement of Rule 4.7 | Conditional - Planning consent declaration required | | |
| The Maximum Obligation Period of the Capacity Agreement it may bid for | Agreement duration x years | | |
| Additional Information | Any other pertinent information. | | |

| Notice of Prequalification Rejection | | | |
|--------------------------------------|---------------------------|--|--|
| Prequalification Decision | Rejected | | |
| Applicant | Applicant xxxa | | |
| Identity of CMU | CMUxx1 | | |
| Type of CMU | CMU Type | | |
| De-rated Capacity | XMW | | |
| Additional Information | The reasons for rejection | | |

The Capacity Market Register will also be published on 14 October containing the information specified in chapter 7 of the Capacity Market Rules.





July 2016

IS UPDATE

System changes from 2015



Two key themes:

"Missing" Functionality

Such as...

- Prequalification Results
- Disputes & Credit Cover
- Setting up auction bidding groups

Defects in Functionality

Such as...

- Port issue that saw some firewalls block the site
- "Look and feel" defects
 - Buttons, clearer descriptions
- Huge number of lower priority functional defects

All data from 2015 process still in system – may be reused for 2016 process if required

June & July Releases



The June & July releases are now live and includes the following additional functionality:

Capacity Market System:

- Functionality to enable EMRS Settlement reporting
- Technical enhancements
- A small number of high priority DECC/ OFGEM changes to facilitate this year's prequalification round
- CMU transfers (Rule 9.2.6)
- Security Interest (Rule 7.5.3)
- The "port fix"
- Certificate issue
- Priority customer defects

Contracts for Difference System:

All Contracts for Difference functionality has been deployed in this window. It will not however be switched on until Autumn 2016.

Disaster Recovery and Security Testing also fully performed across both systems.

Recent Deployments - July

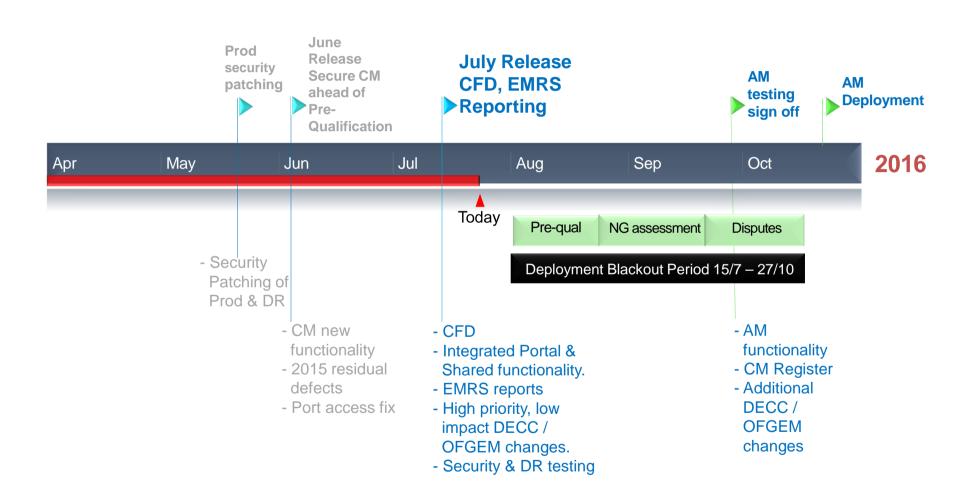


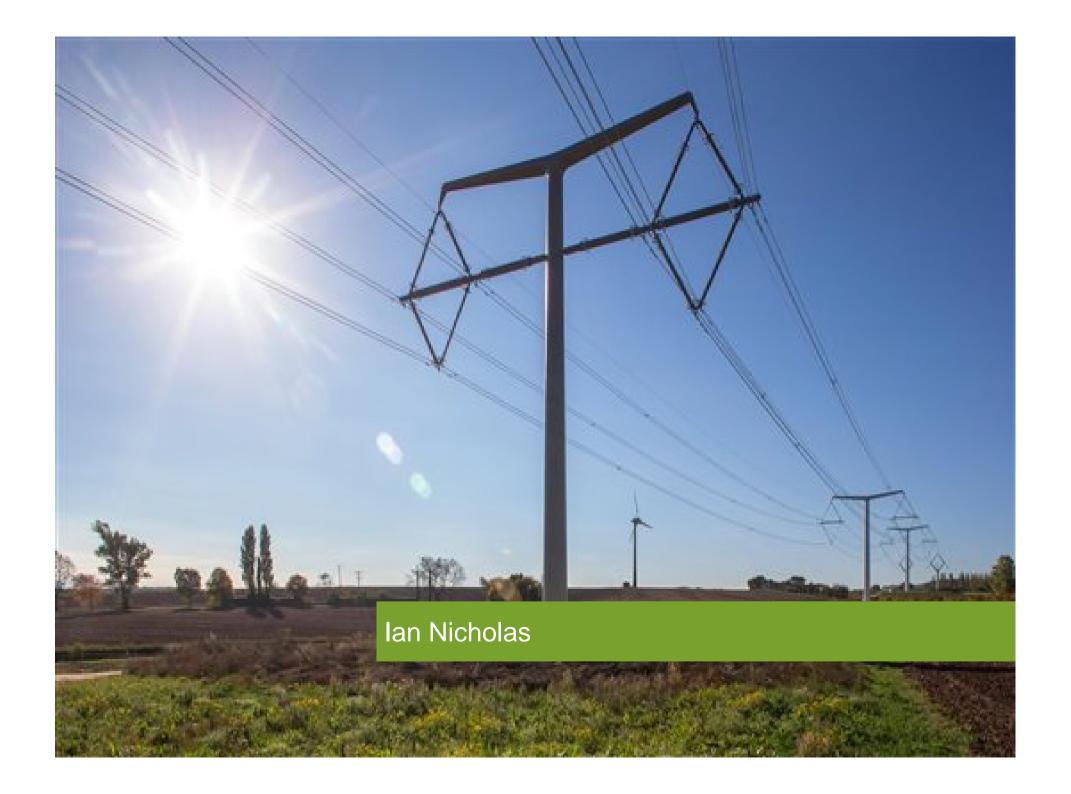
■ The July deployment was successfully implemented and the system went live again a day ahead of schedule on Thursday 14 July.

ACTION: Please check that you can still log in and access the system and check it is performing as expected

EMR Live Admin System Deployments







Participant Guidance





nationalgrid Capacity Market Auction Screencasts Screen cast Libruary: Overvew on the process Creating an Existing generation application Creating an Existing Interconector application Creating a New Build generation application Creating a New Build Interconector application Creating a refurbishing generation application Creating a refurbishing Interconector application Creating a Proven DSR Creating a un-Proven DSR Creating a new Application for a CMU Opt out for existing generating CMU Opt out of the pre-refurbishing component of a Refurbishing CMU Cloning CMU's in the Admin system

Capacity Market Auction Guidelines 2016 Four year ahead Capacity Auction - Delivery year 2020/21 2017 Early Capacity Auction - Delivery year 2017/18 2017 Transitional Capacity Auction - Delivery year 2017/18

nationalgrid

Capacity Market Auction Self Checks 2016

Guidance on how to complete your application

T-4 Early Auction TA

- https://www.emrdeliverybody.com
- https://www.emrdeliverybody.com/Capacity%20Markets%20Document%20Library/EMR%20Company%20Registration%20User%20Support%20Guide.pdf
- https://www.emrdeliverybody.com/Capacity%20Markets%20Document%20Library/Capacity%20Market%20Prequalification%20User%20Support %20Guide%202015 T-4.pdf
- https://www.emrdeliverybody.com/CM/T-4-Auction-2015.aspx#InplviewHash01bbf960-6f5b-4724-b93a-05dfee06b59e=FolderCTID%3D0x012001-WebPartID%3D%7B4D2162E8--C6B5--427C--A49B--14DC8FF01A08%7D



AUCTION OVERVIEW

Capacity Market



Timetable

- Auction Parameter definitions
- Auction Parameters
- Demand/ Supply
- Auction detail
- Auction timeline
- Auction Reporting

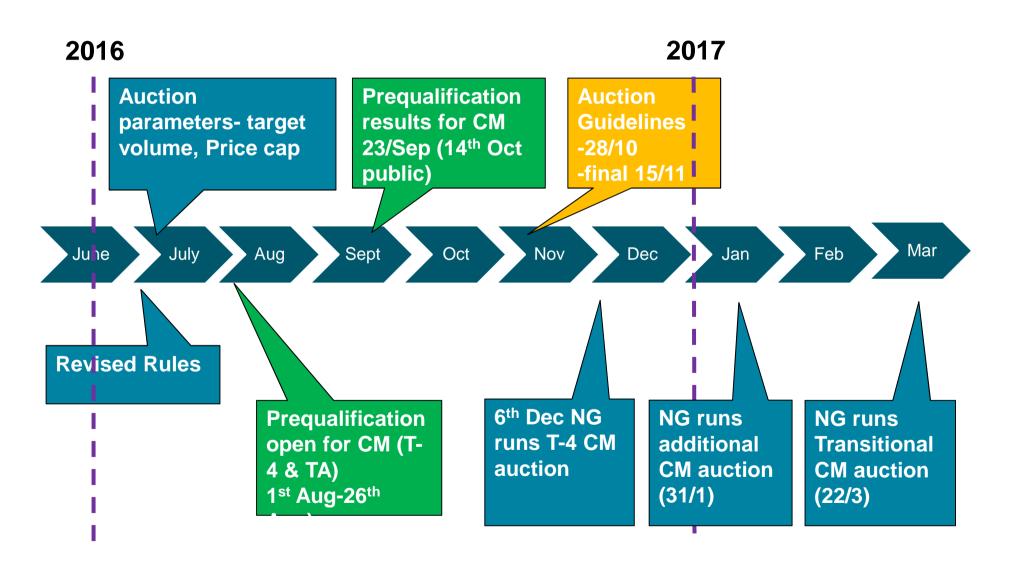
Timetable – dates not updated



| | T-4 (Delivery 20/21) | EA (2017) | TA(2017) |
|---|----------------------------|--------------------|------------------|
| Prequalification Window opens | 1 August | 1 August | 1 August |
| Prequalification Window closes | 26 August | 26 August | 26 August |
| Prequalification Results Day | 23 September | 23 September | 23 September |
| Notification of Prequalified CMUs pursuant to Rule 5.5.10(b) and associated update of affected Auction Parameters | 14 October | 14 October | 14 October |
| Notification of updated Auction Parameters and confirmation of the conditional Prequalified Applicants which have fully Prequalified pursuant to Rule 4.6.3 | 28 October | 28 October | 28 October |
| Confirmation of Entry and decisions under Rules 5.5.11, 5.5.13 and 5.5.14 notified to DB (T-15 T-10) | 15 – 22 November | 10 - 17 January | 1 - 8 March |
| Mock Auction | 24 November | 19 January | 9 March |
| Auction start | 6 December 2015 | 31 January 2017 | 22 March 2017 |

Overview of 2016/7 Capacity Market





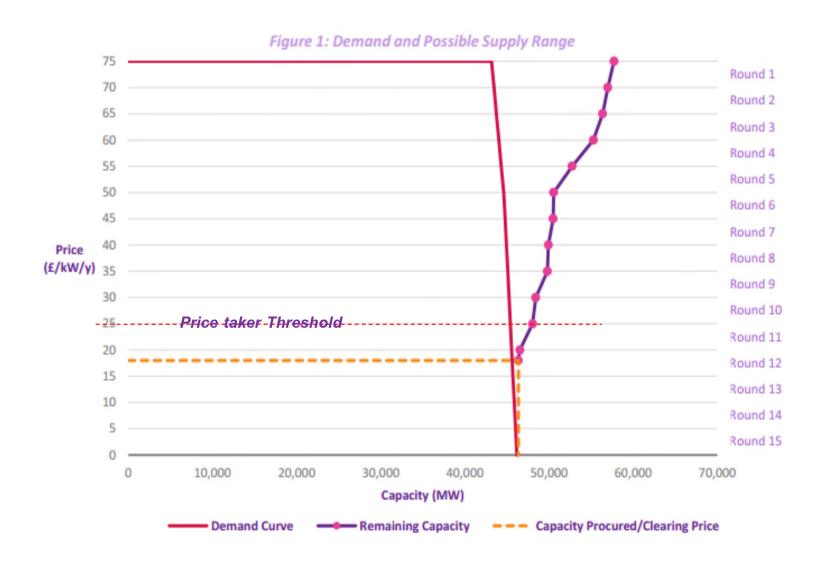
Parameter definitions



- Net Cone Implied Cost of new entry
- Target Capacity capacity at net CONE
- Price Cap the price at the minimum capacity to procure start of the auction and maximum possible clearing price
- Price Maker CMU with no restriction on exit bid price
- Price Taker Threshold level at which a price taker can exit the auction
- Price Taker not a price maker

Auction Reporting (2015 T-4)





Auction Parameters



| Parameter | T-4 (20/21) | EA (17/18) | TA(17/18) |
|-----------------------------------|-------------------------------|----------------|---------------|
| Reliability standard (LOLE) | 3h/year | 3h/year | 3h/year |
| 15 year threshold | £255/kW | £255/kW | n/a |
| 3 year threshold | £130/kW | £130/kW | n/a |
| PriceCap | £75/kW/yr | £75/kW/yr | £75/kW/yr |
| NetCone | £49/kW/yr | £49/kW/yr | £49/kW/yr |
| Price Taker Threshold | £25/kW/yr | £25/kW/yr | £25/kW/yr |
| Target Capacity | 52,000MW | 53,800MW | 300MW |
| Maximum capacity at the price cap | Target capacity minus1.5GW | Target -1.5GW | Target -100MW |
| Minimum capacity at £0/kW/year | Target capacity plus1.5GW | Target -+1.5GW | Target +100MW |

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, random number)
- If clearing capacity not met exactly then clearing algorithm used (Customer Welfare Algorithm)

About the auction system



- No software to download
- Accessible with ordinary browser
- Auction system runs on a secure site hosted in the UK
- Authorised Individuals invited to obtain a password and PIN
- Accessible from T-9 to check your CMUs

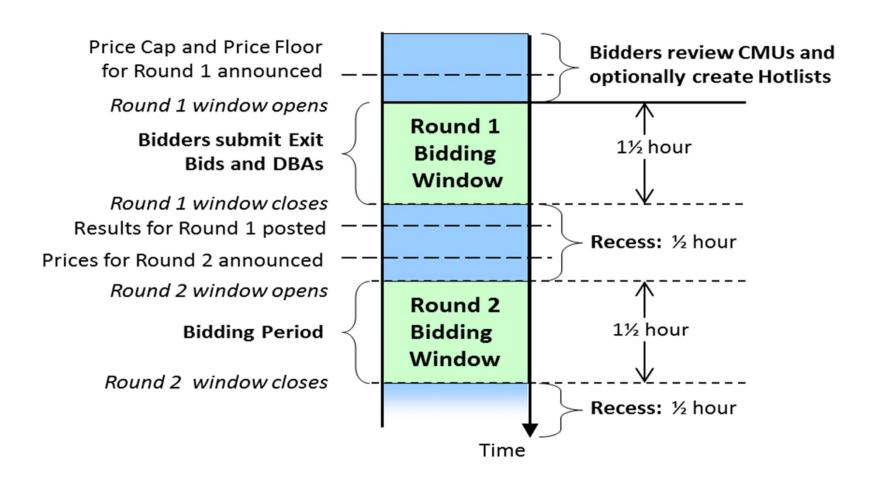
Auction System Testing



- Derived from the Electricity Regulations and the Capacity Market Rules.
- IBM, National Grid and Deloitte created models based on Chapter 5 independently ensuring the system design is consistent with the auction rules.
- Tested against 25 clearing scenarios and 300 functional tests as well as substantial penetration, performance and volume testing.

The Auction Process





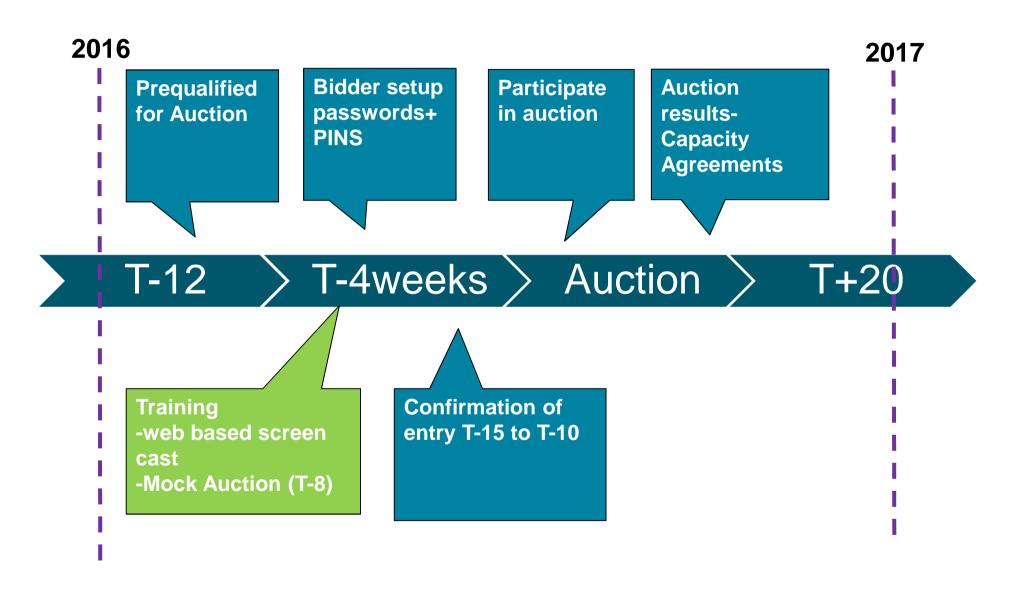
Auction System



- Eligible participants who do nothing at auction will get an agreement at the clearing price
- Exit bid takes you out of the auction (unless your exit bid is equal less clear price)
- Duration Bid amendment used to change agreement length (to 1 year)
- Duration Bid amendment used to change from Refurb to Pre-refurb
- Internet based- easy access

Overview of typical auction





Auction Timetable T-4 (December 2016)



| Round | Price range (£/kW/year) | Round Start | Round End | Recess |
|-----------------|----------------------------|----------------------|---------------|--------|
| Day 1 (6th Dec) | | | | |
| R1 | 75-70 | 09:00 | 10:30 | 30mins |
| R2 | 70-65 | 11:00 | 12:30 | 30mins |
| R3 | 65-60 | 13:00 | 14:30 | 30mins |
| R4 | 60-55 | 15:00 | 16:30 | 30mins |
| Day 2 (7th Dec) | | | | |
| R5 | 55-50 | 09:00 | 10:30 | 30mins |
| R6 | 50-45 | 11:00 | 12:30 | 30mins |
| R7 | 45-40 | 1 <mark>3</mark> :00 | / 14:30 | 30mins |
| R8 | 40-35 | 15:00 / | 16:30 | 30mins |
| Day 3 (8th Dec) | | | / | |
| R9 | 35-30 | 09:00 / 4 | 1 0:30 | 30mins |
| R10 | 30-25 | 11:00 | 12:30 | 30mins |
| R11 | 25 -20 | 13:00 | 14:30 | 30mins |
| R12 | 20-15 | 15:00 | 16:30 | 30mins |
| Day 4 (9th Dec) | | | | |
| R13 | 15-10 | 09:00 | 10:30 | 30mins |
| R14 | 10- 5 | 11:00 | 12:30 | 30mins |
| R15 | 5-0 | 13:00 | 14:30 | 30mins |

Auction Timetable Early Auction (Jan 2017)



| Round | Price range (£/kW/year) | Round Start | Round End | Recess |
|------------------|----------------------------|-------------|-----------|--------|
| Day 1 (31st Jan) | | | | |
| R1 | 75-70 | 09:00 | 10:30 | 30mins |
| R2 | 70-65 | 11:00 | 12:30 | 30mins |
| R3 | 65-60 | 13:00 | 14:30 | 30mins |
| R4 | 60-55 | 15:00 | 16:30 | 30mins |
| Day 2 | | | | |
| R5 | 55-50 | 09:00 | 10:30 | 30mins |
| R6 | 50-45 | 11:00 | 12:30 | 30mins |
| R7 | 45-40 | 13 00 / | 14:30 | 30mins |
| R8 | 40-35 | 15:00 / 🔨 | 16:30 | 30mins |
| Day 3 | | | | |
| R9 | 35-30 | 09:00/ | 10:30 | 30mins |
| R10 | 30-25 | 11:00 | 12:30 | 30mins |
| R11 | 25-20 | 13:00 | 14:30 | 30mins |
| R12 | 20-15 | 15:00 | 16:30 | 30mins |
| Day 4 | | | | |
| R13 | 15-10 | 09:00 | 10:30 | 30mins |
| R14 | 10- 5 | 11:00 | 12:30 | 30mins |
| R15 | 5-0 | 13:00 | 14:30 | 30mins |

Auction Timetable TA (2017)



| Round | Price range (£/kW/year) | Round Start | Round End | Recess |
|--------------------|-------------------------|-------------|-----------|--------|
| | Price range | | | |
| Round | (£/kW/year) | Round Start | Round End | Recess |
| Day 1 (22nd March) | | | | |
| R1 | 75-70 | 09:00 | 10:00 | 30mins |
| R2 | 70-65 | 10:30 | 11:30 | 30mins |
| R3 | 65-60 | 12:00 | 13:00 | 30mins |
| R4 | 60-55 | 13:30 | 14:30 | 30mins |
| R5 | 55-50 | 15:00 | 16:00 | 30mins |
| Day 2 | | | | |
| R6 | 50-45 | 09:00 / / | 10:00 | 30mins |
| R7 | 45-40 | 10:30 | 11:30 | 30mins |
| R8 | 40-35 | 12:00/ | 13:00 | 30mins |
| R9 | 35-30 | 13:30 | 14:30 | 30mins |
| R10 | 30-25 | 15:00 | 16:00 | 30mins |
| Day 3 | | | | |
| R11 | 25-20 | 09:00 | 10:00 | 30mins |
| R12 | 20-15 | 10:30 | 11:30 | 30mins |
| R13 | 15-10 | 12:00 | 13:00 | 30mins |
| R14 | 10-15 | 13:30 | 14:30 | 30mins |
| R15 | 5-0 | 15:00 | 16:00 | 30mins |

Auction Definitions



- **Bidder** is the CMU applicant Company
- Authorised Individual person nominated to place bids on behalf of a Bidder
- Auctioneer National Grid acting with the support of its consultants, IBM and Power Auctions
- Bidder Support team National Grid bidder support, able to act as backup for failure of the electronic system
- Auction Monitor Body appointed to monitor the conduct of the auction

User Training Nov T-4



Web based

■ What will be covered?

Full range of bidder actions as well as backup procedures. Bidder freedom (with a range of CMU's. The Auctioneer has control over the clearing.

Who gets the training?

All participants that can enter the auction (Prequalified, conditionally Prequalified or still in Disputes).

User Training in November



When is the training?

■ There are various training dates available and sessions will run from 09:30-14:00 across a number of days, we plan to send login details early November .

How many users can be trained?

4 user logins will be sent to the main admin for each registered company.

Auction Reporting



If the auction clears in the first or second round of the day, the provisional results would be published at 20.00 that night:

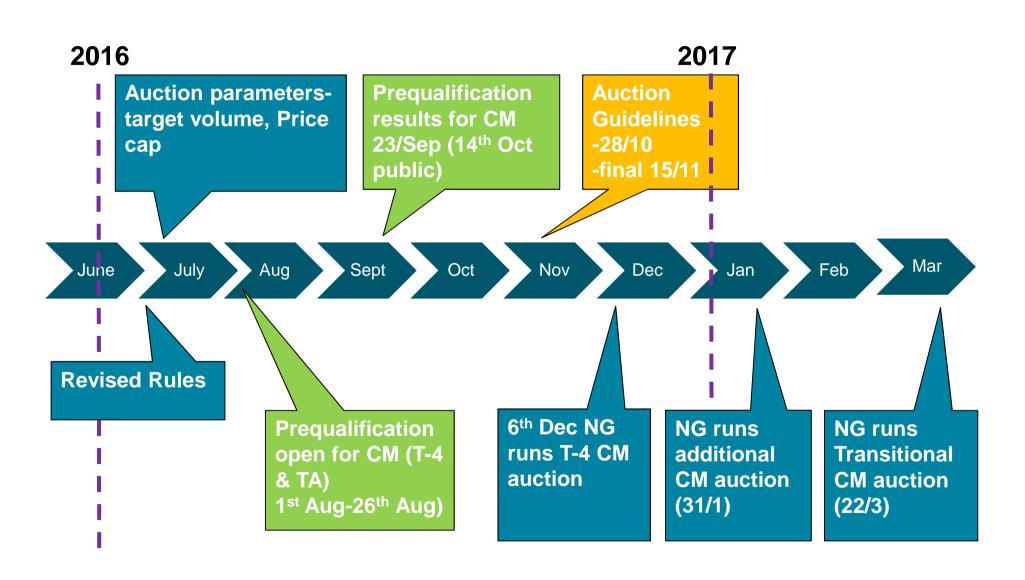
- First/Second round of the day the Auction clears.
- DB publishes on website the Clearing Round price range within the cleared round recess.
- DB sends the individual Provisional Results to bidders via the auction system at 20.00 and also publishes the Clearing Price on the Portal.
- DB will upload the full Provisional Results report to the EMR Portal at 20.00 the same evening.

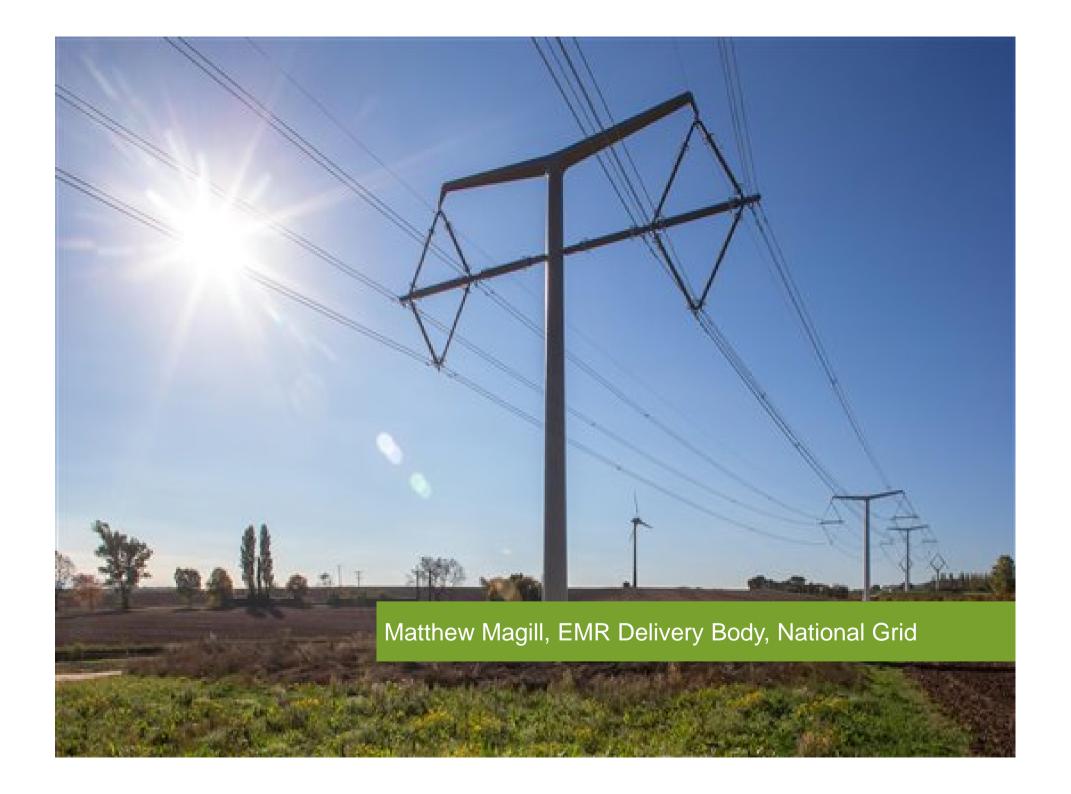
If the auction clears in the third or fourth round of the day, the provisional results would be published at 7am next morning:

- Third/Fourth round of the day the Auction clears.
- DB publishes on website the Clearing Round price range within the cleared round recess.
- DB sends the individual Provisional Results to bidders via the auction system at 20.00 and also publishes the Clearing Price.
- DB will upload the full provisional report to DB website at 07.00 next morning.









What's coming up?



Plan for today

- Further 121's during lunch
- Visit the Electricity Capacity Report team
- Optional Q&A session this afternoon – please let us know your interest

July and August

- CM Customer & Stakeholder Survey
- Registration &Prequalification webinar –
- 121's to review applications and answer questions
- Keep providing us with feedback via survey monkey

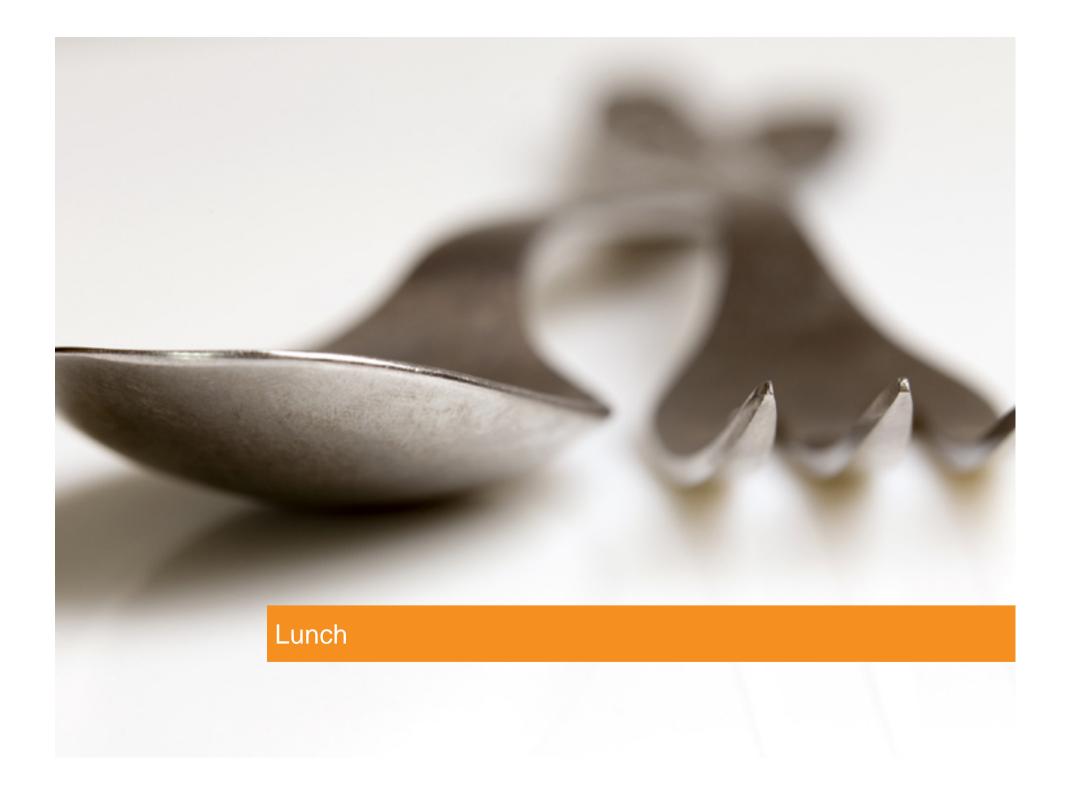
Key Messages



We need to ensure that everything is in place for the first delivery year

- We are working towards the key dates for the three planned Capacity Market Auctions (including prequalification and other key milestones) in the Operational Plan
- IS deployments are on track thanks to your feedback
- Prequalification is coming
- Auction guidelines and volumes to procure are out
- DBEIS and Ofgem have explained the changes
- If not already please submit:
 - your Metering Assessments and request DSR tests
 - a Metering Test request and a Metering Statement1 to EMRS

Keep talking to us about prequalification!



Breakout Groups



- This segment is scheduled for an hour
- Q&A topics are based on your feedback
- Suggested format to visit all 3 subject areas for 20m
- We will indicate when to rotate between groups

- Q&A Group 1: DSR testing process Tim Gregory
- Q&A Group 2: Prequalification process and rules Tushar Singh and Ian Nicholas
- Q&A Group 3: DBEIS policy and consultation update Jonathan Robinson, Charles Phillips and Eleanor Brogden

