Gas Charging Review







NTSCMF – 23 August 2017 Interim slide pack – An update to this slide pack will be published by 22 August 2017



Agenda

Area	Detail
Sub-workgroups	Output / summary of recent sub groupsInterruptible
EU Tariff Code Update	EU Tariff Code Update
Specific Capacity Discounts	Reminder of the outcomes from recent discussions
Non-Transmission Services	• TBC
Action 0707	 Influence on entry vs exit impact in the CWD model of existing contracts
Action 0801	 Analysis of Exit capacity booking and revenue recovered long term and day ahead as an aggregate
Plan and change process	 Overview of the future sub groups and NTSCMF meetings and their focus
UNC Modification	Any updates related to UNC 0621
Next Steps	Next Steps

Gas Charging Review







EU Tariff Code – Current Outlook

Additional material to be updated and published by close of play 22 August 2017

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Output from sub workgroups

Gas Charging Review: Output from sub workgroup

- One sub group since 02 August NTSCMF
 - 08 August Interruptible
- All documentation and outputs, when updated from the meetings will be available on the NTSCMF pages as part of the meeting material:

http://www.gasgovernance.co.uk/ntscmf and http://www.gasgovernance.co.uk/ntscmf/subg

And will also be updating the summary documents in the document library

Gas Charging Review: Sub workgroups – Joining and Contributions

- Inputs in advance of the meetings are welcome
 - Questions or comments or any position papers, for example
 - The one-pager documents can also be used to frame the discussions http://www.gasgovernance.co.uk/ntscmf/subg1page
- To receive joining instructions for the meetings (or to join a specific sub group on a particular topic) please contact National Grid

box.transmissioncapacityandcharging@nationalgrid.com

Gas Charging Review: Sub-group output summary

- From each of the sub-groups we have produced a set of summary slides which give an overview of what was discussed at the meeting
- These are presented in the relevant parts of the NTSCMF material

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Interruptible (08 August) summary

Objectives – Key questions to address

Suggested questions/areas to address

- What is interruptible / off-peak capacity for? (e.g. anti-hoarding, quick access)
 - Should interruptible / off-peak capacity be priced differently to firm capacity?
 - Differences between Entry Interruptible and Exit off-peak capacity?
- What value is placed on Interruptible / off-peak Capacity?
- Firm Capacity versus Interruptible / off-peak
 - How important is interruptible / off peak capacity and why?
- Measurement against Relevant Objectives, GTCR and Stakeholder Objectives and EU
 - Interruptible under TAR NC Article 16 is IP Specific article
 - Article 14(1)b of Gas Regulation (Regulation (EC) 715/2009)
 - Rationale for treating differently or same across all GB points?
- How to price interruptible?
 - Recognise any approach would still need to be justified against all required objectives / compliance

Gas Charging Review: Interruptible (1)

Question	Some of the views expressed for each question
What is interruptible / off-peak capacity for?	 The topic of backhaul was raised. Whilst not part of this discussion at this stage, acknowledged that backhaul is something that will be considered. There was a discussion on the current status of Interruptible in the context of volumes of capacity sold and the revenue associated to this - National Grid to present some material to highlight this information at future meeting (NTSCMF). In addition to its use as a capacity hoarding mechanism and a method of providing short term access, the use of interruptible as a constraint management tool was discussed and the potential avoidance of NTS reinforcement costs. Some participants proposed that the reserve price of interruptible should be lower than firm, to highlight the risk of the potential to be scaled back. Some suggested risk should be rewarded, depending on the capacity products they purchase. So the higher the risk associated with the capacity, the lower the reserve price. For a comparison between Entry and Exit, there are differences between the rules for how Interruptible (Entry) and Off-Peak (Exit) capacity is released. Request to highlight the differences between Entry and Exit for interruptible - NG to provide some info on this at next available meeting (NTSCMF) Is interruptible useful as a tool if it is not, or less likely, to be used?

Gas Charging Review: Interruptible (2)

Question	Some of the views expressed for each question
What value is placed on Interruptible / offpeak Capacity?	 For Entry is there a liquidity point that interruptible contributes toward? Does having interruptible capacity provide for the flowing of marginal sources of gas? By allowing access to the market, if those users are willing to pay the relevant flow based charges, should there be a discounted capacity product? One participant/attendee highlighted historical data in relation to topic of interruptible e.g. Exit Reform, NERA report 2005. Relevance to constrained (demand for capacity outstrips supply) market - having an NTS that is not generally considered constrained for capacity - this does not necessarily remove the need for having a capacity product such as that for interruptible capacity Reference to EU - the Third package about promoting cross border access. Through changes, if making access more expensive would this restrict the flow of gas? From a market point of view, in some instances, a "fair price" may not be an affordable one. For some a discounted, interruptible product may be a more palatable option over more expensive firm capacity. From a cost / revenue recovery point of view, any discounts or separate charging arrangements does mean that recovery is placed elsewhere Whilst the Transmission charges shippers will be charged overall will not change (i.e. The total amount of revenue NG will be required to collect), the overall impact of NG's charges remains at between 2 and 3% of the domestic bill.

Gas Charging Review: Interruptible (3)

Question	Some of the views expressed for each question	
How to price interruptible? Measurement against Relevant Objectives, GTCR and Stakeholder Objectives and EU	 Discussion on how revenues flow related to interruptible capacity - NG to present some information to help illustrate this at future meeting (NTSCMF). Impacts on incentives to be understood The incentive is part of RIIO-T1, T2 process about to be discussed in preparation for 2021. Incentives look back too and can therefore reconcile and there are caps and collar within the incentive including sharing factors to manage the incentive. Reflecting risk associated to the interruption of capacity - if the risk is low then should the price not be closer to that of firm? If firm was bought in place of interruptible then would this cause any operational issues? Marginal price of providing capacity - this may not be as appropriate with the current arrangements, the market environment has changed from the time when current arrangements were implemented - price for interruptible therefore should also be review in light of GTCR policy, EU codes and proposals to move to CWD charging for the RPM. Consequences of totally firm capacity sales if interruptible was priced such that none was purchased - some concerns raised Different priced capacity products - need leeway to do this for flexibility and not to limit choice Electricity interaction referred to in the RIIO-T2 open letter from Ofgem - should this be considered? If firm and interruptible were the same reserve price - what is the point of pricing all products the same? Challenges to Ofgem on how they will assess any proposed change? 	rs e

Gas Charging Review: Interruptible (4)

Question	Some of the views expressed for each question
Firm Capacity versus Interruptible / off- peak	 Probability of interruption - is this different between. Entry and Exit? There were discussions about if this is easier to predict on Entry and more challenging on Exit (e.g. Due to there being more Exit points than Entry points and the nature of Entry / Exit bookings) Forward looking approach to determine interruptible probabilities may be difficult to do. If looking at current arrangements, especially looking up to a year ahead, probabilities would likely be very low. For pricing then the arrangement should consider how other products are impacted. If more firm is bought would this increase the risk of buy-backs? On the subject of capacity utilisation - with the baselines high, and usage low by comparison then it is unlikely that capacity will be interrupted - then can interruptible be considered a real tool if it is not used? Is there a higher risk for Exit over Entry? And at shared or single user points? If there is no discount then does it work as a firm product? Is it fair to set the reserve price for interruptible the same as the firm reserve price, and pay the same as firm reserve price but with different capacity rights?

Gas Charging Review:Interruptible – General Themes

- Summary of general themes:
 - Any pricing arrangement should recognise diverse range of NTS Users and the range of capacity products can suit varied requirements, that will include risk appetite and consider how this is reflected for interruptible
 - Products and methodology to release interruptible / off peak capacity to remain as per current arrangements
 - Entry and Exit can be considered separately re interruptible pricing
 - Can have IP and Non IP treatment
- Questions to address for pricing for both Entry interruptible and off peak Exit:
 - What is an appropriate arrangement to price interruptible / off peak relative to firm capacity justified against the required objectives?
 - How to determine the probability of interruption is key. All observations, in addition to that outlined in the TAR NC, should be provided to the group / NG.

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Specific Capacity Discounts

Re-cap of general themes from 17 July

Some general themes:

- 50% discount for Transmission Capacity charges for GB storage points Entry and Exit Capacity
- No discount proposed for LNG or Interconnection
- This is not necessarily a final position, and is subject to change to reflect proposals that may get adopted
- Still need to discuss application of revenue recovery "top-up", whether there is any cross over of logic or positions presented related to its application and for Non Transmission
- Security of Supply is explicitly stated on Art 9 (and Recital 4) of the TAR Code. Any decision on a modification should consider how security of supply will be included.

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Non-Transmission Services

Additional material to be updated and published by close of play 22 August 2017

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Influence on entry vs exit impact in the CWD model of existing contracts (Action 0707)

Additional material to be updated and published by close of play 22 August 2017

Gas Charging Review







Analysis of Exit capacity booking and revenue recovered long term and day ahead as an aggregate (Action 0801)

Action 0801

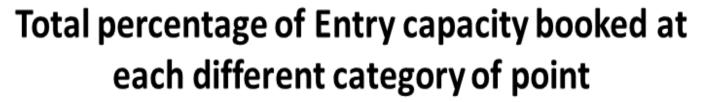
- Action 0801 Analysis of Exit capacity booking and revenue recovered long term and day ahead as an aggregate
- We have expanded this action to:
 - Cover Entry capacity booking and revenue recovered as well as Exit
 - Split capacity and revenue by LT, ST (exc Interruptible) and Interruptible
 - Split by different categorisation of the entry/exit points
- Data provided for 2015/16 financial year

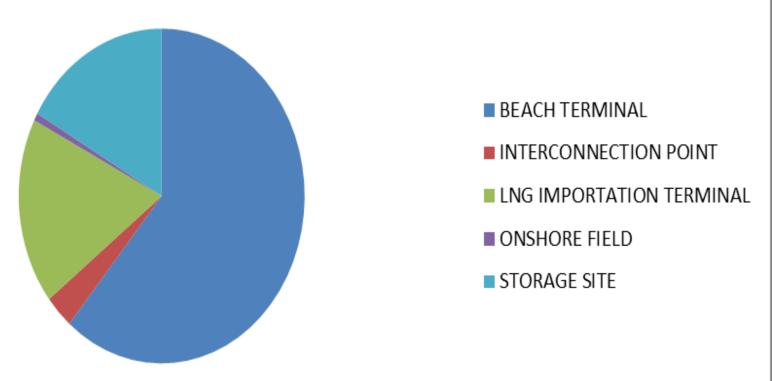
Revenues from commodity & capacity national grid charges – different types of point for 2015/16 – Entry – data from 02/08 meeting

Entry Capacity and Commodity Revenue collected in 2015/16

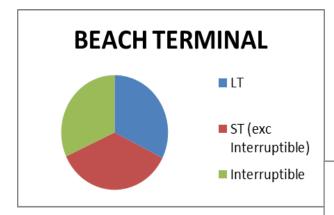
Row Labels	Sui	m of Capacity	Su	m of TO Commodity	Sui	m of SO Commodity
BEACH TERMINAL	£	58,478,503	£	229,107,921	£	89,772,296
INTERCONNECTION POINT	£	5,987,458	£	11,569,941	£	3,533,516
LNG IMPORTATION TERMINAL	£	36,997,418	£	45,324,440	£	15,267,010
ONSHORE FIELD	£	10,850	£	1,859,743	£	638,832
STORAGE SITE	£	12,618,694	£	-	£	-
Grand Total	£	114,092,924	£	287,862,045	£	109,211,655

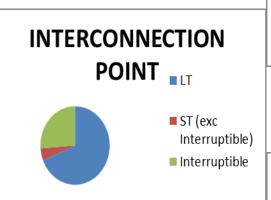
Total percentage of Entry capacity nationalgrid booked at each different category of point (15/16)

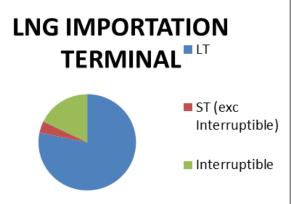


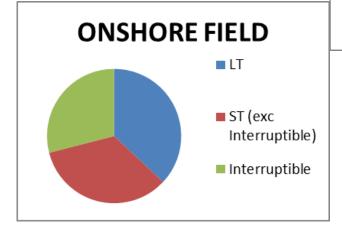


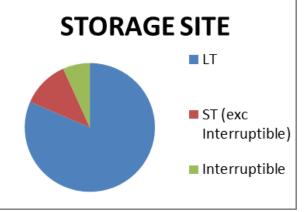
Entry Capacity Booked associated national grid with capacity products (15/16)



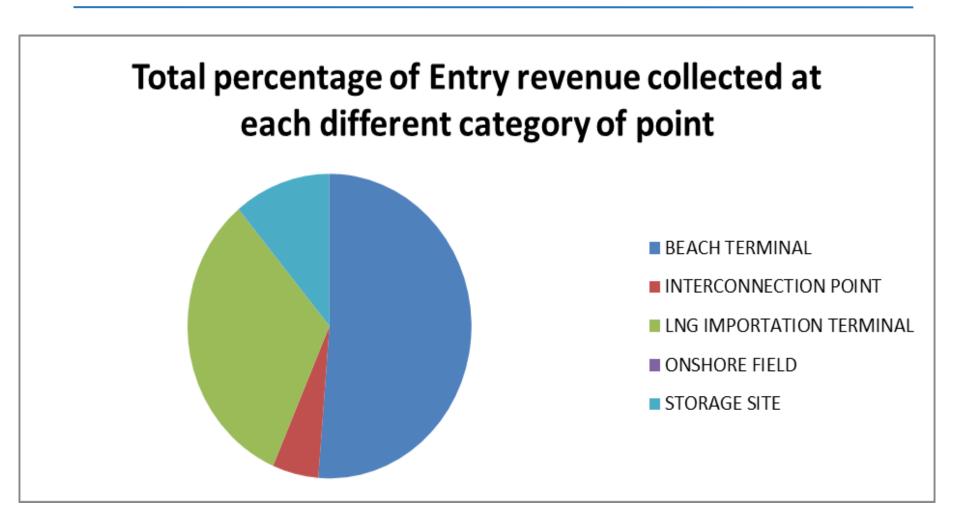




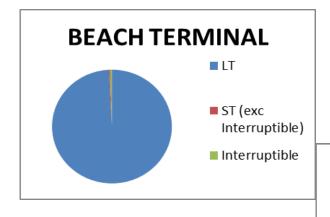


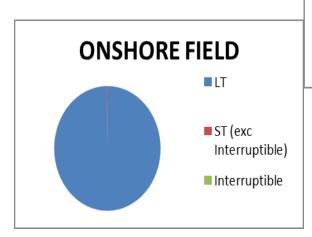


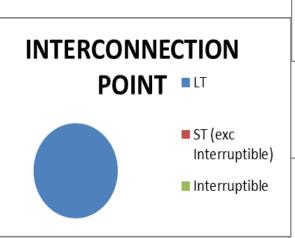
Total percentage of Entry revenue nationalgrid collected at each different category of point (15/16)

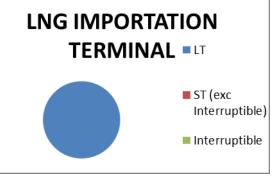


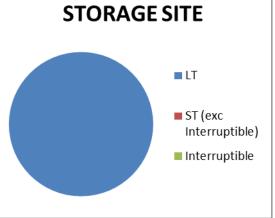
Revenue associated with the Entry national grid capacity bookings (15/16)











For Information – Entry Capacity nationalgrid Booked by capacity product (15/16)

Row Labels	Sum of Long Term	Sum of Short Term (exc Interruptible)	Sum of Interruptible	Total
BEACH TERMINAL	2,183,520,490	2,415,920,444	2,148,901,853	6,748,342,786
INTERCONNECTION POINT	247,093,060	18,003,166	94,023,997	359,120,223
LNG IMPORTATION TERMINAL	1,556,302,466	77,344,832	356,045,511	1,989,692,810
ONSHORE FIELD	29,595,436	27,238,163	23,224,122	80,057,720
STORAGE SITE	1,510,219,218	218,475,580	124,208,134	1,852,902,932
Grand Total	5,526,730,669	2,756,982,185	2,746,403,617	11,030,116,471

For Information – Entry Revenue by capacity product (15/16)

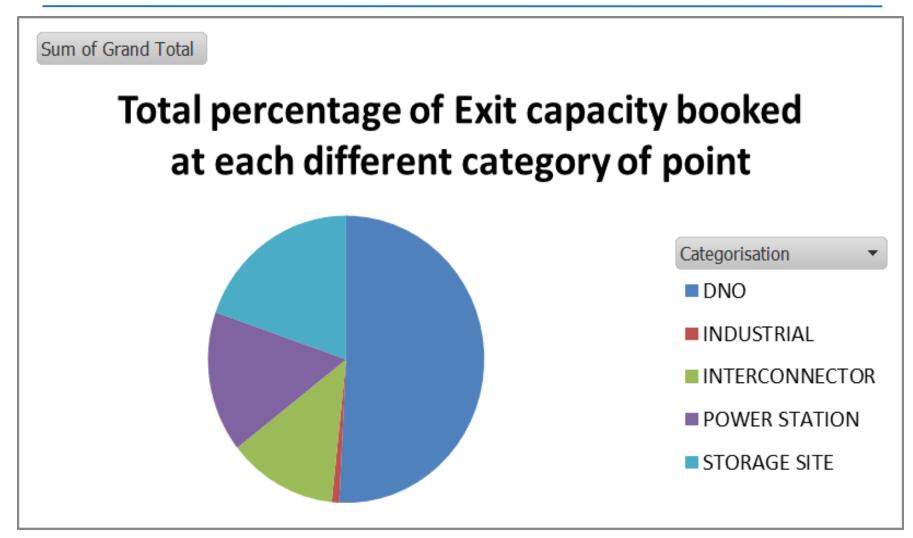
Row Labels	Su Te	m of Long rm		n of Short Term c Interruptible)		n of erruptible	Tot	al
BEACH TERMINAL	£	57,979,496	£	221,573	£	277,435	£	58,478,503
INTERCONNECTION POINT	£	5,986,465	£	994	£	-	£	5,987,458
LNG IMPORTATION TERMINAL	£	36,997,403	£	15	£	-	£	36,997,418
ONSHORE FIELD	£	10,828	£	22	£	-	£	10,850
STORAGE SITE	£	12,618,249	£	445	£	-	£	12,618,694
Grand Total	£	113,592,441	£	223,048	£	277,435	£	114,092,924

Revenues from commodity & capacity national grid charges – different types of point for 2015/16 – Exit – data from 02/08 meeting

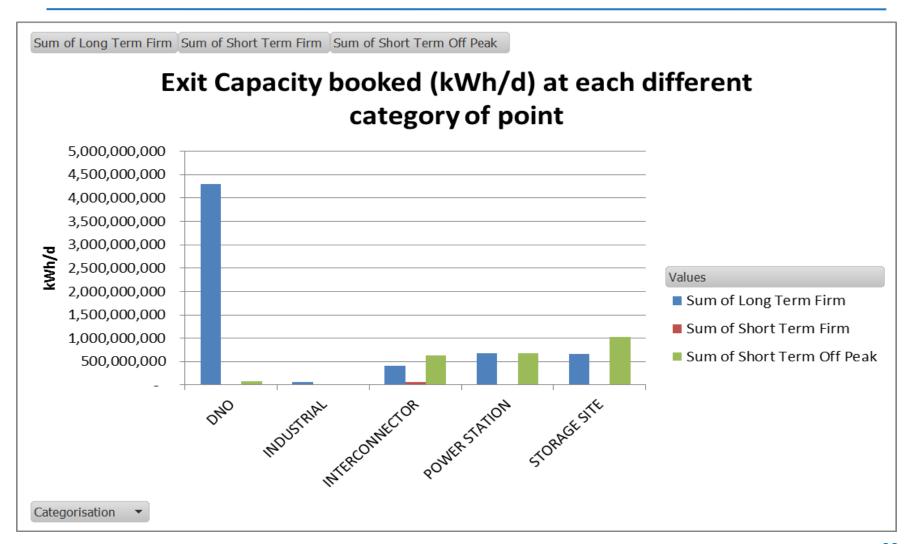
Exit Capacity and Commodity Revenue collected in 2015/16

Row Labels	Sum of Capacity	Sum of TO Commodity	Sum of SO Commodity
DNO	186,440,410	-	-
Industrial	1,408,112	1,656,328	2,781,477
Interconnector	1,773,041	1,778,969	15,162,680
Power Station	19,489,166	15,785,790	29,479,969
Storage	848,413	-	-
LDZ	-	100,977,332	77,623,898
Grand Total	209,959,142	120,198,419	125,048,024

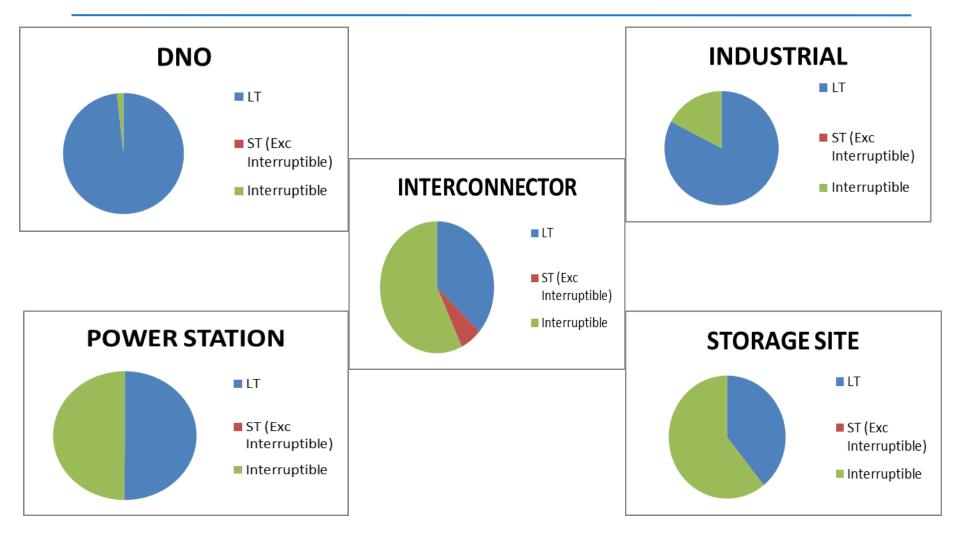
Total percentage of Exit capacity nationalgrid booked at each different category of point (15/16)



Exit Capacity booked (kWh/d) at each national grid different category of point (15/16)

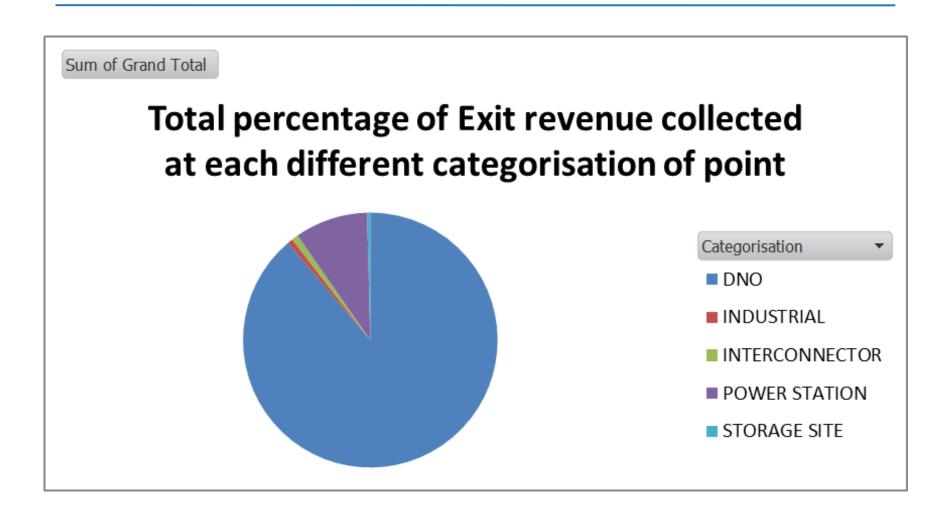


Exit Capacity Bookings associated nationalgrid with the capacity products (15/16)

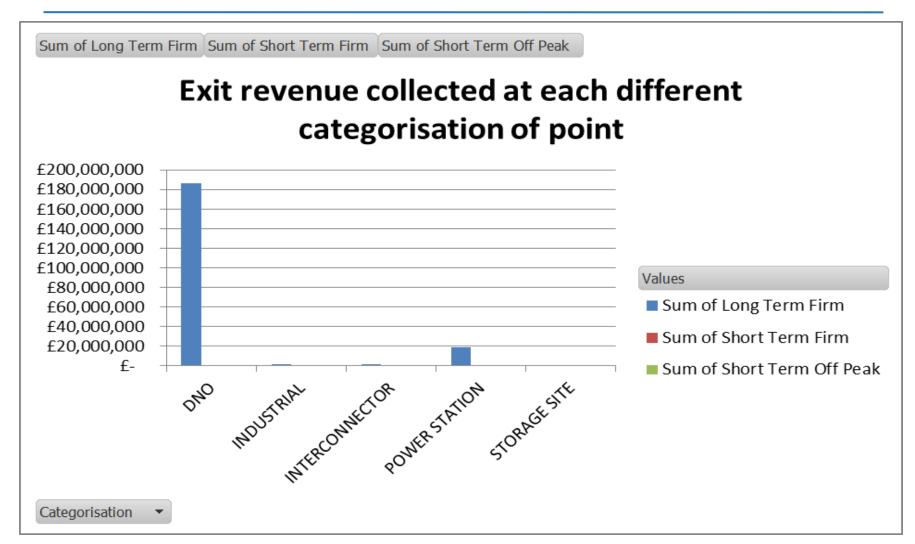


Total percentage of Exit revenue collected at each different categorisation of point (15/16)

nationalgrid

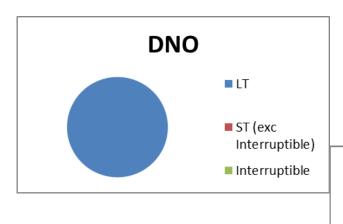


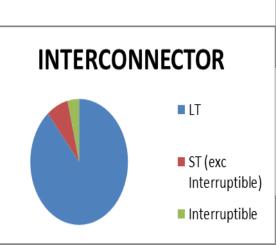
Exit revenue collected at each different categorisation of point (15/16)

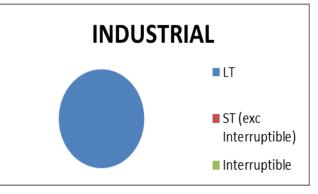


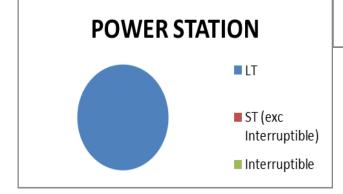
Revenue associated with the Exit capacity bookings (15/16)

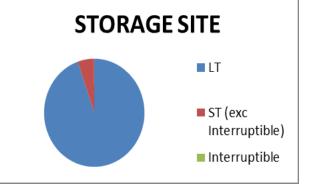
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For Information – Exit Capacity Booked by capacity product (15/16)

	Sum of Long Term	Sum of Short	Sum of Short	
Row Labels 🔻 F	Firm	Term Firm	Term Off Peak	Total
DNO	4,298,478,330	5,405	75,785,572	4,374,269,307
INDUSTRIAL	61,693,864	2,055	12,891,676	74,587,595
INTERCONNECTOR	403,725,995	67,632,907	628,884,191	1,100,243,093
POWER STATION	684,764,195	125,433	681,330,437	1,366,220,066
STORAGE SITE	664,975,560	1,166,658	1,029,032,726	1,695,174,944
Grand Total	6,113,637,945	68,932,457	2,427,924,602	8,610,495,005

For Information – Exit Revenue by nationalgrid capacity product (15/16)

	Sum of Long Term		Sum of Short Sum of Short					
Row Labels	Firm		Ter	m Firm	Ter	m Off Peak	Tota	ıl
DNO	£	186,440,404	£	6	£	-	£	186,440,410
INDUSTRIAL	£	1,408,017	£	95	£	-	£	1,408,112
INTERCONNECTOR	£	1,577,273	£	127,863	£	67,904	£	1,773,041
POWER STATION	£	19,483,779	£	5,386	£	-	£	19,489,166
STORAGE SITE	£	802,936	£	45,033	£	444	£	848,413
Grand Total	£	209,712,410	£	178,384	£	68,349	£	209,959,142

Gas Charging Review







Plan and change process

Gas Charging Review: Topic Development

- The discussion topic timeline was put together to ensure all topics had time against them
 - Discussing at least twice
 - Additional meetings will be added in as needed

Gas Charging Review: Topic Development – Discussion timeline (1/2)

Date	Meeting	Key topic to discuss#
30 May 13:00 – 15:00 (complete)	Sub Group	Forecasted Contracted Capacity
5 June (complete)	NTSCMF	 Forecasted Contracted Capacity*
14 June 10:00 – 12:00 (complete)	Sub Group	 Revenue Reconciliation / Recovery (may also include some views on Multipliers)
29 June 10:00 – 12:00 (complete)	Sub Group	 Avoiding inefficient bypass of the NTS
7 July (complete)	NTSCMF	 CWD Updated Model Revenue Reconciliation / Recovery* Avoiding inefficient bypass of the NTS*
11 July 13:00 – 15:00 (complete)	Sub Group	Specific Capacity Discounts
17 July (complete)	NTSCMF	Specific Capacity Discounts*Non-Transmission Services Model*
25 July 13:00 – 15:00 (complete)	Sub group	 Multipliers

^{*}There may be some occasions where the topic runs over a few meetings, we will revisit the sub-group / NTSCMF meeting topic if this happens.

^{*} These topics will be relaying outputs from the sub-group in addition to further discussion at NTSCMFs

nationalgrid **Gas Charging Review: Topic Development – Discussion timeline (2/2)**

Date	Meeting	Key topic to discuss#
2 August (complete)	NTSCMF	Multipliers*Avoiding inefficient bypass of the NTS
8 August 13:00 – 15:00 (complete)	Sub Group	Interruptible
23 August	NTSCMF	 Interruptible* Specific Capacity Discounts Non-Tx Services
24 August 10:00 – 12:00	Sub Group	Existing Contracts
31 August 10:00 – 12:00	Sub Group	Revenue Reconciliation/Recovery Mechanisms
5 September	NTSCMF	Existing Contracts*
8 September 10:00 – 12:00	Sub Group	Forecasted Contracted Capacity
12 September 10:00 – 12:00	Sub Group	 Avoiding inefficient bypass of the NTS
19 September 13:00 – 15:00	Sub Group	Multipliers / Interruptible
26 September	NTSCMF	 Forecasted Contracted Capacity Avoiding inefficient bypass of the NTS Multipliers / Interruptible
28 September 10:00 – 12:00	Sub Group	To be confirmed 43

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UNC Modification

Gas Charging Review: UNC 0621 Modification – relevant updates

- UNC 0621 Modification was sent to Panel on 2 June
- Voted to go to workgroup for development and back to Panel for January 2018
 - Twice monthly NTSCMFs, twice monthly Sub Groups
- As progress is made through the workgroups and subgroups UNC 0621 will be updated accordingly at the appropriate time

Gas Charging Review







Next Steps

Next Steps

- Sub Groups as per timetable
- Next NTSCMF on 05 September

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