

Gas Charging Review



NTSCMF – 24 April 2017

Agenda

Area	Detail
EU Tariffs Code – Current Outlook	Key updates relevant to Gas Charging Review
Output from sub-workgroup	 Summary of the April sub workgroup and outputs available Focus of future sub group meetings
Charging Spreadsheets for Modelling	 Reminder of the spreadsheets and supporting documentation available Further development of the spreadsheets to help in the Gas Charging Review to model potential changes to Gas Transportation charges
Forecasted Contracted Capacity	 Overview of Forecasted Contracted Capacity (FCC) Discussions to date and FCC in Calculation of charges Discussion on further development
Plan and change process	 Update on UNC Modification Development, change process and timescales Discussion on UNC Modification Structure
Issues Log	Review of Issues
Next Steps	 Further development at NTSCMF and future NTSCMF sub workgroups

Gas Charging Review



EU Tariff Code – Current Outlook Colin Hamilton

ENTSOG Activity: IDoc

Reminder:

- Consultation on Implementation Guideline (IDoc)
- Respond by 30 June 2017 to TAR-NC@entsog.eu
- updated version of the TAR NC IDoc to be published before the second TAR NC Implementation WS
 - Workshop planned for October 2017
 - coincides with second application date
 - Contents of WS currently under discussion

ENTSOG Activity: nationalgrid 1st Implementation Workshop - outcome

- Updated materials now published on ENTSOG website including:
 - Minutes of workshop (including Q&A)
 - http://www.entsog.eu/public/uploads/files/publications/Tariff s/2017/TAR0811_040317_Minutes_TAR%20NC_Implemen tation_WS_Final.pdf
 - Updated slide pack with notes
 - <u>http://www.entsog.eu/public/uploads/files/publications/Tariff</u> s/2017/TAR0806_170322_Presentation_TAR%20NC%20I mplementation%20Workshop_Final_Updated_Notes.pdf

Short videos of speakers (to be published)



Where to publish TAR NC information?

2 sources: ENTSOG TRA Platform and TSO/NRA website (Art. 31)

Where Similarities	Similarities		Differences			
	When	How	What	For which points	Language	Additional
On the website of TSO/NRA	website of TSO/NRA - Before tariff period manner - Clear, easily accessible wa - On a non-	- Clear, easily accessible way - On a non-	All tariff information	All points on the system	In official language(s) of MS + in English, to the extent possible	Link on ENTSOG TRA Platform to TSO/NRA website
Directly on ENTSOG TRA Platform		discriminatory basis - Downloadable format	Some tariff information: - Reserve prices - Flow-based charge - Simulation of all costs for flowing 1 GWh/d/year	IPs only	In English only	ln a standardised table

	 O/NRA website (in MS language + English if ssible) → for all points June Y: reserve prices for firm and interruptible IPs + additional info (e.g. probability of interruption) 30 days before TP starts: non-IPs capacity tariffs + flow-based charge (if any) + additional info (e.g. on non-transmission tariffs) Link on TRA PF to the website of TSO/NRA
--	---

In case of mismatch between TRA PF and TSO/NRA website: TSO/NRA website prevails!

TAR NC: GB Implementation

- UNC MOD 0611 raised February 2017
 - Amendments to the firm capacity payable price at Interconnection Points
 - Progress can be followed here:
 - <u>http://www.gasgovernance.co.uk/0611</u>
 - Next meeting 4 May 2017

Gas Charging Review



Output from sub workgroups Colin Williams

Output from sub workgroup

- Since 4th April NTSCMF, sub workgroup meetings:
 - 11th April
- All documentation and outputs from the meetings will be available

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

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

Output from sub workgroup (2)

Reminder, in relation to the Gas Charging Review:

- The Sub Group continues to discuss a wide range of topics, issuing papers summarising discussions, conclusions (with rationale) feeding into NTSCMF.
- The sub group discussions, in addition to those at NTSCMF, will be used to inform Modelling and UNC Modification(s)
- Comments / questions welcome on material produced at or in between NTSCMF meetings.

Output from sub workgroup April Focus

Further development of the Charging Spreadsheets

- April subgroup focused on reviewing the initial spreadsheet to discuss additional functionality
- Accommodating of Behavioural Assessments presented and discussed at 5 April NTSCMF
- Discussion on future releases of the Spreadsheets
- Further discussion on Forecasted Contracted Capacity
 - Options for the FCC
 - Methods of assessing or scoring options for FCC to facilitate selection
- Discussion on role of the subgroup going forwards

Output from sub workgroup:nationalgridAdditional Functionality for the Spreadsheets

Item Detail on changes to make in the next release / Assumptions made

- 1 Add in functionality to be added into the anticipated revenue recovery tab to give the ability to use a the range of capacity booking scenarios offered in the original FCC options. These will be used (by multiplying the calculated reserve prices generated using the FCC and any adjustments) to determine a forecast revenue shortfall/excess. This will allow users of the spreadsheets to enter a different booking profile to the FCC values that were used in setting the reserve prices. The five options here will be as per those for the FCC plus the ability to enter your own.
- 2 To calculate unit price adjustment values for the anticipated shortfall (or credit in the event of an excess) and have a range of options to use as the denominator
 - a. The Booking profile selected (as per item 1);
 - b. Historical Bookings;
 - c. Historical Flows;
 - d. Forecast Flows.
- 3 For the scenarios given under (2) the option will be there to include or exclude IP values and existing contracts.
- 4 All these work on setting annual charges on an ex ante basis looking forwards with an assumption during the charge setting process that there will be a view on these values.
- 5 These do not assume the ability to change within year at this stage any potential for changing any prices mid-year will be part of additional discussion and assessment related to the TAR NC.

Output from the sub workgroup: Forecasted Contracted Capacity

- Discussed further the use and role of FCC in the charging calculations for Capacity prices
- Objectivity criteria and commentary against some of the potential options
- Additional analysis to help facilitate discussions
- Reviewed draft conclusions
- Agreed to discuss further at NTSCMF separate section of this slide pack on FCC

Sub workgroup – future development

Future Sub Groups

- Continue to focus on discussion topics to help and support Modification process
- Charging spreadsheet development for behavioural impacts to be discussed and reviewed
- Consider the role the sub workgroup can provide as part of the UNC Modification process for the Gas Charging Review - Discussion

Gas Charging Review



Charging Spreadsheets for Modelling Colin Williams

Date	Detail
5 April 2017	 Demonstration of the Transmission Capacity Weighted Distance (CWD) spreadsheet and Non Transmission Services (unit price calculation) spreadsheets at NTSCMF Initial comments gathered with some actions taken to make updates
6 April 2017	 Transmission Services CWD and Non Transmission Spreadsheets made available on Joint Office website http://www.gasgovernance.co.uk/ntscmf
7 April 2017	WebEx session held by National Grid on using the Spreadsheets
11 April 2017	 Discussion at the NTSCMF Sub Workgroup for Charging review on additional functionality beyond that agreed at 5 April NTSCMF
20 April	 Updated suite of spreadsheets and user guides made available on the Joint Office website <u>http://www.gasgovernance.co.uk/ntscmf</u> Updates linked to changes agreed at 5 April NTSCMF Notice issued via Joint Office to make industry aware of publications
24 April 2017	 NTSCMF – Discussion on further development of spreadsheets and the future publications
w/c 1 May 2017	 Update to the model following the updates discussed at the 11 April Sub Workgroup (as per slides on outputs from 11 April Sub Group) To be made available as soon as possible during this week.

- In line with the discussions on the Reference Price Methodology (RPM) at NTSCMF and at the Charging Review Sub Groups, it is proposed not to continue with the LRMC Model.
- Where a RPM is used it will either be using Capacity Weighted Distance (CWD) or Postage Stamp

- Available now are:
 - Transmission Services CWD spreadsheet plus User Guide
 - Transmission Services Postage Stamp spreadsheet plus User Guide
 - Non Transmission Services Unit price calculation spreadsheet

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

Any questions / comments on the spreadsheets, please contact us:

box.transmissioncapacityandcharging@nationalgrid.com

Discussion:

- Any comments on the spreadsheets and user guides that have been published?
- Consideration for future updates and releases

Gas Charging Review



Forecasted Contracted Capacity Discussion

Gas Charging Review: Forecasted Contracted Capacity

- Forecasted Contracted Capacity
 - A requirement under EU TAR NC
 - Not a defined term
 - Key input into the calculation of reference prices and therefore reserve prices
- Key inputs to the CWD calculation
 - Revenue
 - Distance
 - Capacity (FCC)
- What is an appropriate selection or method of determining an FCC for GB?

Gas Charging Review: Forecasted Contracted Capacity

Current conclusions (as per v0.5 of the FCC Discussion Paper) http://www.gasgovernance.co.uk/ntscmf/subg1page

In relation to the FCC there are a number of issues to work through and also additional analysis to conduct. Some of the potential framework is taking shape, with focus on a form of objectivity assessment of the options.

FCC is a necessary input to the RPM and as such reference to it can be made in the initial UNC Modification, and its methodology of calculation and impact of options can be further developed as part of the UNC change process.

Ultimately the FCC needs to have a value per point per year.

Conclusions will become clearer via the development of the end-to-end model in addition to subgroup/NTSCMF discussions and throughout the UNC Modification process.

There could be a step change as a result of FCC and therefore a transition into new values may be useful to change for 2019 and beyond.

It may be beneficial to consider a combination of options for FCC if there is benefit in delivering against the objectives of using the FCC.

Gas Charging Review: Forecasted Contracted Capacity

How to assess and select FCC values : (as per v0.5 of the FCC Discussion Paper) http://www.gasgovernance.co.uk/ntscmf/subg1page

It is necessary to consider, in development of the FCC, how to avoid resulting values not being open to interpretation and challenge.

In selecting an FCC it would be helpful to develop objectivity assessments to help narrow down the options. Selection criteria may not identify a perfect option but they should help to reduce the number of options to only a few.

Proposed criteria are as follows:

- Are the values published/publically available?
- How far out into the future are the values available?
- Stability of values (yr to yr)
- · Objectivity of values

These objectivity criteria have been incorporated into the Appendix Tables of the FCC discussion paper (<u>http://www.gasgovernance.co.uk/ntscmf/subg1page</u>) for the options.

NTSCMF Discussion:

Discussion on FCC development, objectivity criteria and on the FCC and its use in the Charging Calculation Process

Gas Charging Review



Plan and change process Colin Williams

Gas Charging Review: nationalgrid Change process – GB / EU Processes

- As part of the GB and EU Changes process there are a number of necessary steps
- At 5 April NTSCMF we discussed the method of incorporating the required EU processes, notably the consultation on the charging framework
 - In Series run the EU Consultation based on one option decided as part of the UNC Change process
 - In Parallel run the UNC / EU Consultations together (i.e. on all alternates proposed)
- Whilst not decided as yet this will be kept under review and discussed during the early stages of the UNC Mod process

UNC Modification – Timeline update

Date	Meeting [#]	Detail
5 April 2017	NTSCMF	 High level pre modification discussions Provide overview of scope of proposed UNC Modification for discussion
24 April 2017	NTSCMF	 Continue pre-modification discussions on scope of proposed UNC Modification Discuss overview of what it will and won't contain at this stage, links to the key topics under discussion
8 May 2017	NTSCMF	 Pre-modification discussion on all topics to include draft proposals for each for inclusion into the UNC Modification Discuss overview of what it will and won't contain at this stage, links to the key topics under discussion
23 May 2017	NTSCMF	 Discuss the draft for the UNC Modification ahead of any revisions before being submitted to June Panel
5 June	NTSCMF	UNC Modification review and development
15 June 2017	UNC Mod Panel	 Decision on UNC Modification(s) recommending referral to workgroup (at NTSCMF)

[#]There will be opportunities to use the Sub group over this period and beyond to help support and facilitate UNC Modification process.

Draft UNC Modification Structure nationalgrid presented at 5 April NTSCMF for discussion

Modification Structure	Topics covered in Modifications	Comments
Principal Modification	Reference Price Methodology, Revenue Reconciliation approach, Multipliers, Specific Discounts (e.g. Article 9 discounts), historic treatment of capacity	 Covering topics that are closely linked and beneficial to keep together For the "satellite" modifications the subject areas will be referenced to draw the link between Modifications Placeholders / defaults for Multipliers / Discounts
Satellite Modifications – to be referenced in main modification with specific methodology or approach in separate modification.	Interruptible Approach	Interruptible Capacity Charging Method
	Forecasted Contracted Capacity (FCC)	Options and solution for FCC
	ASEP Splitting to facilitate Storage Discount	 Options and solution for how to identify capacity at combined ASEPs
	Avoiding Inefficient bypass	 Design, objectives and application of such a product

Gas Charging Review: Draft UNC Modification Structure

- At 5 April NTSCMF comments were received that favoured a "super-mod" approach consolidating all these into a single UNC Modification
- There were a number of reasons
 - Easier management for the change process, including decision making, if there are alternates to any proposals
 - Dependencies between topics mean it may more appropriate to treat together
- Recognising these views we thought it useful to have a further discussion considering previous UNC changes

Gas Charging Review: nationalgrid Draft UNC Modification Structure - Discussion

- How have broad UNC Modifications been done before?
- EU Phase 2 that delivered CAM, Balancing and much of Interoperability codes. Specifically on the issue of packaging of issues into UNC Mods
 - Delivered across 12 mods in total. Feedback[#] was that this was well managed although some of the mods were "beasts".
 - Are there any key differences for the Gas Charging Review or elements to learn from EU Phase 2 related to structuring the UNC Modification(s)?
- Is a consolidated "Super-Mod" preferred for Charging?

Gas Charging Review: nationalgrid Using the Sub Groups through the UNC Mod

- The Sub Workgroups to support the Gas Charging Review have:
 - Helped expedite development on key discussion topics
 - Deliver analysis to take the detail out of NTSCMF to keep content relevant to discussions
 - Bring back discussions and outputs to NTSCMF
 - Helped develop and test the models that have been published
- Can Sub Group be used during the UNC Mod Process to help support?



Gas Charging Review



Issues Log

Issues Log

 Review of Issues Log (review of the spreadsheet including links to the Gas Charging Review Decision list – and RAG Status)

Discussion on any proposed new items

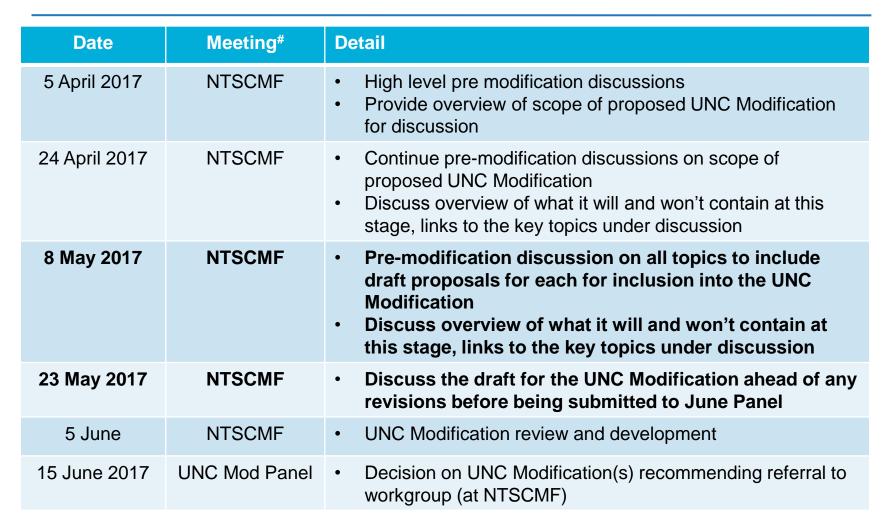


Gas Charging Review



Next Steps

Gas Charging Review: Next Steps



[#]There will be opportunities to use the Sub group over this period and beyond to help support and facilitate UNC Modification process.

Contact us: box.transmissioncapacityandcharging@nationalgrid.com



Jenny Phillips Gas Capacity and Charging Development Manager Tel: +44 (0)1926 65 3977 Mob: +44 (0) 7776 318646 Email: jenny.phillips@nationalgrid.com

Sarah Chleboun Senior Commercial Analyst Tel: +44 (0)1926 65 4246 Email: sarah.chleboun@nationalgrid.com



Colin Williams Charging Development Manager Tel: +44 (0)1926 65 5916 Mob: +44 (0)7785 451776 Email: colin.williams@nationalgrid.com



Colin Hamilton EU Code Development Manager Tel: +44 (0)1926 65 3423 Mob: +44 (0) 7971 760360 Email: colin.j.hamilton@nationalgrid.com

Laura Johnson Senior Commercial Analyst Tel: +44 (0)1926 65 6160 Email: Jaura.johnson@nationalgrid.com