Gas Charging Review



NTSCMF – 4 May 2016

Update provided on 29 April 2016. All slides added or updated are marked with a blue star $\sqrt{-}$

Agenda

Area	Detail
Terms of Reference and work plan	Reminder of ToR and Work Plan for any proposed changes
Summary of April NTSCMF Analysis	 Key messages from analysis presented at NTSCMF on 06 April 2016
Relevant Objectives (GB and EU)	 GB relevant objectives / charging obligations Tariff Code obligations
Alternative Reference Price Methodologies	 Other methodologies proposed in previous EU TAR NC drafting Ofgem GTCR Conclusions and discussion
Modelling CWD and LRMC with flow data	 Additional analysis to build on CWD analysis presented in April Discussion on areas for development
EU Tariffs Code – Current Outlook	Key updates relevant to Gas Charging ReviewAreas under discussion
Dual Regime discussion	Consider EU TAR NC and GB Framework to discuss areas where dual regime may be permitted and how it could look as an overall charging structure
Next Steps	Future NTSCMF workshop planning

Gas Charging Review



Summary of April NTSCMF Analysis

Recap – last NTSCMF

- Modelled Capacity Weighted Distance (CWD)
 - With revenue for applicable year
 - With flat revenue
 - With Baseline/obligated capacity values
 - With Sold capacity values
- Modelled Long Run Marginal Cost (LRMC)
 - Updated revenue (Exit Model)
 - Updated Supply and Demand (Exit Model)
- April NTSCMF data and slides available here: <u>http://www.gasgovernance.co.uk/ntscmf/060416</u>

LRMC vs CWD Entry Capacity 2014/15

Entry Point prices for 2014/15



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LRMC vs CWD Entry Capacity 2015/16

Entry Point prices for 2015/16



Entry Point

LRMC vs CWD Exit Capacity 2014/15

Exit Zone Average Prices for 2014/15



Exit Zone

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LRMC vs CWD Exit Capacity 2015/16

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Exit Zone Average Prices for 2015/16



Percentage Difference 2014/15 to 2015/16

Percentage Variance in Prices from 2014/15 to 2015/16



Including those points in WS produces what looks like an anomalous large change for LRMC. This was driven largely by updating supply/ demand values moving several points from minimum price upwards. In order to see other % variances more easily WS can be excluded as shown in the following slide

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Percentage Difference 2014/15 to 2015/16 (excl zone WS)

Percentage Varience in Prices from 2014/15 to 2015/16 - Excl WS



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Summary of Analysis nationalgrid CWD compared to LRMC presented 6 April 16

- LRMC approach has potentially volatile Capacity prices with certain components driving large swings, including the method of how they are incorporated
 - Supply / Demand (Entry and Exit)
 - Revenue input (Exit only)
- LRMC approach looks to minimise the overall flow distance on the NTS for a flow scenario
- Does mean some prices are very low (including minimum or floor price) and some are high

Summary of Analysis nationalgrid CWD compared to LRMC presented 6 April 16

- CWD, as it is averaging across the whole NTS, generally showing changes (using 14/15 to 15/16) would be less volatile
- Takes the edge off the extremities of pricing (those points with very high or very low prices)
- Small data set
- Does not take into consideration
 - Short term pricing
 - Alternative products / arrangements
 - What to do with prospect of zero prices
 - Potential options to refine or develop on

Gas Charging Review



Relevant Objectives (GB and EU)

Reminder of Charging Obligations national**grid** / Relevant Objectives – GB Current

Licence Obligations	Detail	
 Licence Standard Special Conditions A4 - Charging General A5 - Charging Methodology 	 Keep charging methodology under review Use reasonable endeavours regarding methodology and charge changes: Not to make changes more frequently than twice a year (on 1 April and 1 October) In relation to exit capacity once a year on 1 October 	
	Relevant (Objectives
 Cost reflectivity Promote efficiency Avoid undue preference supply of transportation Best promotes competent between gas suppliers shippers 	ce in the on services tition s and gas	 Take account of developments in the transportation business Compliance with Regulation and decisions from the EC and ACER Follow any alternative arrangement determined by the Secretary of State

EU Tariffs Code "Relevant Objectives"

- The core obligations to which the TAR NC must align are:
 - **EC 715/2009** (art.13)

<u>http://eur-</u> <u>lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:211:0036:0054:en</u> <u>:PDF</u>

Dir 2009/73/EC (art.41(6) & art.32(1)), art.36(1)(d));

<u>http://eur-</u>

lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:211:0094:0136:en :PDF

EC 713/2009 (art.8(2))(d))

<u>http://eur-</u>

lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2009:211:0001:0014:EN:PDF

EU Tariffs Code "Relevant Objectives"

- Charges must be levied for access for existing and incremental infrastructure
- Access based on published tariffs available to all eligible customers
- Applied objectively without discrimination and approved by NRA
- Accounts for need of system integrity and improvement
- Reflect efficient costs incurred with appropriate return on investment

EU Tariffs Code "Relevant Objectives"

- Can take account of benchmarking by NRA
- Facilitate efficient gas trade and competition
- Avoid cross-subsidies between users
- Provides incentives for investment and interoperability
- Set separately for every entry and exit point
- Cannot restrict market liquidity nor distort cross-border trade
 - If cross-border trade hampered, TSOs and NRAs must cooperate to pursue convergence of tariff structures and charging principles

Gas Charging Review





Item	Detail
EU Tariffs Code	 Some of the alternatives referenced in earlier versions of the EU Tariffs Code: Postage Stamp Asset Allocation Capacity Weighted Distance Virtual Point Variant A Virtual Point Variant B
Ofgem's GTCR	 Summary of what was considered for GTCR Commentary and comparisons to current methodology and EU Compliance given updates to EU Tariffs Code
Summary	 Summary of the methods and how they compare to analysis being produced



Reference Price Methodology	Methodology and Application*	Comments
Postage Stamp	 The postage stamp methodology foresees the same reference price at all Entry and Exit Points. The reference price is given by the target revenue for entry (respectively exit) divided by the total booked capacity (or a relevant proxy) 	 Designed for a simple network May suit a relatively simple unmeshed network Does not provide investment signals
Asset Allocation	 Considers users of the assets on the network and attributes proportion of costs accordingly (domestic, customers abroad – transitory, sub groups of transit) Where recovery of allowed revenue requires reconciliation to or from customers in other markets. 	 May be more suitable to more transitory networks
Capacity Weighted Distance (CWD)	 This methodology assumes that the share of the allowed revenue to be collected from each point should be proportionate to its contribution to the cost of the capacity of the system. This share of the allowed revenue, corresponding to the tariff, is based on a (uniform) unit price per capacity per distance. 	 May suit a more usage based model rather than investment Does not use cost components in the calculation of prices, linked to revenue, capacity and distance.
Virtual Point (VP) (includes variant A and B)	• The principle of the virtual point based approach is to determine entry and exit tariffs for each point to which the tariff applies by weighting capacity at these points according to their distance to a virtual point. The "virtual point" (theoretical location) can be either adjusted for mathematically (Variant A) or determined geographically (Variant B).	 VP(A) relates to the LRMC model Works for a highly meshed, complex network May suit a more investment focused model due to marginal pricing



Summary of GTCR policy considerations

Key elements of GTCR development and policy considerations relating to charging changes (TO Entry only)

- Introduction of "fully floating" capacity charges for long term products and changing arrangements for short term to be a combination of discounted reserve prices plus "full floating" component.
- Storage receive exemption from the floating component
- Maintain the LRMC model for the underlying charging methodology for capacity
- Application would be for all contracts from implementation date
- Keeps same principle for administered as for Exit (LRMC for underlying model then additive element)

Charges	Current	GTCR	EU Tariffs Code compliance*
TO Entry	 Capacity reserve prices, payable prices from auctions Short term pricing (Day ahead to within day) receive discounts up to 100% Commodity as balancing charge for revenue recovery Storage exempt from Commodity LRMC for undelying methodology 	 Floating Capacity charges on Long term (Quarterly, Monthly) Short term pricing (Day ahead to within day) receive discounts of less than 100%. Short term still pay "floating" component. Storage exempt from "floating component" Shouldn't require Commodity on TO Entry. Application would be for all contracts from implementation date LRMC as underlying methodology 	 Floating permitted for all points. Additional provisions for IPs with use of Multipliers/seasonal factors (could be applied at Non IP if NRA decides) Short term pricing would not match up. Discounts permitted on Capacity at Non-IP, not permitted at IPs. Storage discounts minimum 50% from reserve price Protection for Entry Capacity reserved before 29 November 2013 LRMC equated to VP(A), now not included as primary method, can use compared to CWD.

*This is based on an updated version of the Tariffs Code so is a different version from when GTCR was being prepared.

Comparisons of GTCR options to nationalgrid current Entry Capacity (using LRMC)



*Collar = floor price



- Of the alternatives Postage Stamp, asset allocation and VP(B) seem less suited to GB and use of the NTS
 - Welcome your views on this
- Should focus be on LRMC and CWD to develop further?
 - i.e as a foundation then consider modifying, etc.
- Which is most suited to GB and links the commercial regime and physical most appropriately into the future?
 - Need to consider signals given from each should be part of our discussions.

Gas Charging Review



Modelling CWD and LRMC with flow data



Modelling CWD and LRMC with flow data

- This analysis builds on that presented at April NTSCMF <u>http://www.gasgovernance.co.uk/ntscmf/060416</u>
- We started to show how CWD compares to LRMC
- This was based on using a range of assumptions
- Here we look at LRMC and CWD using the same assumptions except for the Capacity values used as inputs into each
 - Using actual flows as a proxy for forecast capacity
 - Highlighting the proportion of Obligated capacity levels is reflective of actual flows

High level key assumptionsnationalgridfor Modelling CWD compared to LRMC

- As per April analysis:
- We have assumed that GB has a single methodology for all points (Interconnection Points (IPs) and Non Interconnection Points (Non-IPs)).
- We have assumed no change in behaviour relating to the purchase of capacity
- We have not included any discount structure, therefore all capacity at each point attracts the same price
- The purpose of this is to show the high level workings of CWD, comparisons to current methodology, to gain an understanding of how it may be developed or refined
- In the following slides we list the main requirements and remaining assumptions for this modelling

Key assumptions for capacity: Modelling CWD compared to LRMC

	LRMC (Current Methodology)		CWD	
Years Modelled	Gas Years 14/15 and 15/16		Gas Years 14/15 and 15/16	
	Entry	Exit	Entry	Exit
Capacity Input (obligated)	Obligated Entry Capacity as per Licence and included into the current Transportation Model.	Non-incremental Obligated Exit Capacity as per Licence and included into the current Transportation Model.	Obligated Entry Capacity as per Licence and included into the current Transportation Model.	Non-incremental Obligated Exit Capacity as per Licence and included into the current Transportation Model.
Capacity Input (considering Actuals)	Actual flows on system where available or taken previous years actuals as a forecast			
Method of applying Entry / Exit Split (kept 50/50)	Average LRMCs	Administered prices	Administered prices	Administered prices

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Key assumptions for network: nationalgrid Modelling CWD compared to LRMC

Item		LRMC	CWD
Network		 As per Transportation Model issued for each year in question used to set Entry and Exit Prices 	 Based on network as at December 2015 Any new points added in, linked to closest node on the existing network
Cost Components	Expansion Constant	 Entry and Exit. As per Models. No change. 	Not used
Cost Components	Annuity Rate	 As given in UNC. No change to values used. 	Not used
Supply / Demand		 Entry as per MSEC models Exit as per year updated with that years Supply / Demand values 	 Not used

Key assumptions for Revenue:nationalgridModelling CWD compared to LRMC

Item	LRMC	CWD	
If applicable for Revenue purposes, Entry and Exit Split	 Using 50/50 where used (exit only) 	 Using 50/50 for both Entry and Exit 	
"TO MAR" (LRMC & CWD)	Allowed Transmission Owner Revenue as provided in the Long Term Revenue Forecast (<u>http://www2.nationalgrid.com/UK/Industry-</u> <u>information/System-charges/Gas-transmission/Tools-and-Models/</u>) for the given year less DN Pensions with a zero value for "K"* then applying Entry / Exit split.		
Revenue for Entry Capacity	• n/a	 Based on TO Revenue less DN Pensions (assumes "K" is zero). Using Allowed Revenues from 14/15 and 15/16 	
Revenue for Exit Capacity	 Based on TO Revenue less DN Pensions (assumes "K" is zero). Using Allowed Revenues from 14/15 and 15/16 	 Based on TO Revenue less DN Pensions (assumes "K" is zero). Using Allowed Revenues from 14/15 and 15/16 	

*"K" represents any under or over recovery from a previous year that would be carried forward

Which prices are being shown in nationalgrid each chart

- For Entry Capacity we show the prices for individual points on the charts
- For Exit Capacity, due to the number of points, we show averages by zone
 - Zones aggregated (e.g. SO1 and SO2 are shown as SO)
 - Any Interconnector, Storage, Power Generation and Industrial are in the "Other" average value
 - As these are averages this will not show exact change for individual points however will give a good overview
- All individual prices for each model shown are available in the accompanying spreadsheet available on the Joint Office website (<u>http://www.gasgovernance.co.uk/ntscmf/040516</u>)

Entry – Flow





Entry – Obligated and Flow

Flows represent approximately 23% of Obligated Entry - Obligated and Flow data



Exit – Flow

Exit Flow Data



Exit – Obligated and Flow

Flows represent approximately 28% of Obligated



Exit Obligated and Flow data

Entry Prices – LRMC model – Obligated and Flow

Entry Prices - LRMC model - Obligated and Flow



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Entry Prices – CWD model – Obligated and Flow

Entry Prices - CWD model - Obligated and Flow



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Entry Prices – LRMC compared to nationalgrid CWD model

Entry Prices - LRMC compared to CWD model



Exit Prices – LRMC model – Obligated and Flow

Exit Prices - LRMC model - Obligated and Flow



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Exit Prices – CWD model – Obligated and Flow

Exit Prices - CWD model - Obligated and Flow



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Exit Prices – LRMC compared to nationalgrid CWD model

Exit Prices - LRMC compared to CWD model



Booked Capacity – Long Term and nationalgrid Short Term Products

Booked Capacity on Long Term and Short Term products



Booked Entry Capacity in Long Term Auctions

Booked Entry Capacity in Long Term Auctions 7000 6000 5000 Capacity - GWh/d 4000 BBSEC RMTnTSEC 3000 MSEC QSEC 2000 1000 0 2014/15 2023/24 2024/25 2025/26 2027/28 2013/14 2019/20 2020/21 2021/22 2022/23 2018/19 2026/27 2028/29 2029/30 2012/13 2016/17 2010/11 2011/12 2030/31

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Exit Capacity Booked - Short Term nationalgrid and Long Term

Exit Capacity Booked - Short Term and Long Term



Revenue collected under flow & obligated capacity prices against nationalgrid flow capacity

Revenue collected under flow and obligated capacity prices against flow capacity





Modelling CWD and LRMC with flow data

- Flow levels are currently less than 30% of the obligated levels for both Entry and Exit
- When recovery of revenue is linked to a low % against forecast charges could result in:
 - Significant under recovery that will need to be accommodate into potentially volatile charges
 - Undermining the methodology used for setting capacity
- Under any methodology the link between actual and forecast (when used in setting prices) is important
 - Forecasted contracted capacity needs to be as close to what is going to be flowed on system to ensure revenue is collected in applicable year

Gas Charging Review



EU Tariff Code – Current Outlook

EU Tariffs Code: current outlook

Implementation timescales (Art 41):

- Regulation to apply from 1 January 2018
- RPM consultation and approval cycle to be concluded no later than 31 May 2018
- First annual auction impacted is July 2018
- This timeline is major point of contention
- ENTSOG pushing for 24 months implementation
- Applicable date will be decided in comitology



Regulatory accounting Principles (Art 38):

- Article still highly contentious and likely to receive "push-back" from member states
- Text clarified by EC to highlight that ACER guidance on determination of allowed or target revenues is "nonbinding"
- ENTSOG considers the setting of allowed or target revenues as out of scope of the TAR NC

ENTSOG proposes the deletion of article 38 in full.



ACER review (Art 27):

- Article has been amended slightly with respect to timescales of each step
- ACER can still make proposed amendments to proposed methodology
- Review cycle is now every five years
- ENTSOG proposes that ACER is removed from NRA decision making process or removed at least from the first cycle and for NRA to take account of ACER's repost at subsequent cycle.



- Calculation of interruptible priced (Art 16):
- Adjustment factor A has been reinstated

Ex-ante discount = Pro X A X 100%

- "A" shall be no less than 1 and can vary per standard capacity product
- This reintroduction is unlikely to change
- Backhaul priced at marginal cost of product reintroduced
 - This will be strongly contested by some TSOs



Storage (*Art 10*):

- Latest text confirms that storage discount is at least 50%.
- All criteria for determining discount removed from article
- Level of discount simply subject to consultation
- ENTSOG pushing for discount to be in range of 0-100%

EU Tariffs Code: current outlook

Existing contracts (Art 39):

- Fixed price element for contracts concluded before 29 November 2013 still included
- Price protection for contracts for incremental capacity concluded between 29 November 2013 and date of application for TAR NC has now been removed
- Text unlikely to change w.r.t. GB regime (there will be a push to reinstate protection of contracts in price-cap regimes)

Gas Charging Review



Dual Regime discussion





Item	Detail
Revenue Structure	 Reminder of which charges recover which revenues Under EU Tariffs Code revenue / charge structure
Assumptions for Revenue alignment	 Definition of Transmission and Non Transmission Services Working assumptions regarding Transmission Services and Non Transmission Services
Dual regime Discussion	 Scenarios where a dual regime may be possible considering the EU Tariffs Code, GB arrangements looking at certain charges and arrangements Shorthaul considerations Storage considerations Non Transmission Services and a dual regime How this might look as part of revenue recovery
Summary	Summary for potential areas where dual regime may be permitted

Current GB Framework for Revenues and recovery



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EU Tariff Code General Revenue nationalgrid Reconciliation / recovery structure (simplified)



Certain elements are excluded here. E.g. The DN Pensions Deficit Charge that is levied direct to DNs. Expect this to continue and contribute to overall revenue.

EU Tariff Code General RevenuenationalgridReconciliation / recovery structure (simplified)



For example, if only have capacity, then any over or under recovery will adjust the revenues these charges will be required to collect.



Definitions

From the EU Tariffs Code 14 April 2016 Chapter 1 (General Provisions) Article 3 (definitions)

- 'transmission services' means the regulated services that are provided by the transmission system operator within the entry-exit system for the purpose of transmission;
- 'non-transmission services' means the regulated services other than transmission services and other than services regulated by Commission Regulation (EU) No 312/2014 that are provided by the transmission system operator

Discussion:



Assumptions to facilitate dual regime

- Working assumption that:
 - TO as we have it today equates to Transmission Services
 - SO we have today equates to the Non Transmission Services
- The "new Commodity" under the Tariffs Code to cover the cost to flow gas can be considered a Non Transmission Service
- There are a range of areas under the EU Tariffs Code that may permit a dual regime. Any implementation becomes a GB debate
- In the following slides we present for discussion some key areas and how or if dual regimes might be permitted
 - We present these for discussion based on our understanding of the EU Tariffs Code as of 14 April 2016
 - Where we refer to IP this is Bacton and Moffat Interconnectors
 - For Non-IP this is all other points (Domestic)



Dual Regime Scenarios (1/2)

Item	Description	IP	Non IP	Comments
Reference Price Methodology (RPM)	The Main methodology to recover Transmission Services Revenue	One methodology a	it all points	Requirement that IP must float each year, with new payable price
Complimentary Revenue Recovery Charge (CRRC)	Permitted commodity "top up" to reach allowed revenue	Not allowed at IPs	Can be applied at Non IPs	If used can only be for Non-IPs
Storage pricing	Treatment for Capacity pricing for storage	One methodology a Minimum discount o Capacity based tran	at all points. of 50% from the dismission tariffs.	No criteria specified to determine the discount
Short Term Pricing	Options for short term pricing linked to reserve prices	No discounts permitted. Only multipliers or seasonal adjustments	Discounts could be applied at Non IPs	Could align non- IPs with IPs, but if discounts adopted at non- IPs, can't apply same at IPs



Dual Regime Scenarios (2/2)

Item	Description	IP	Non IP	Comments
Alternative Transmission Tariffs	Charges that contribute to the Transmission Services Revenue that must be linked to a discount from reserve prices	If applied, they ap as they are part o	pply at all points f the RPM	If what we call "shorthaul" is considered a Transmission Service this could be where it could sit. Other options may be permitted.
Fixed prices (excluding any "protected" capacity)	Providing a fixed price for Capacity ahead of the date of use	A choice as to whether these are offered. Method fixed under the Tariffs Code	Can be as today or as per IP	Any different approach IP vs Non-IP would need to consider relevant objectives
Interruptible	Methodology for pricing interruptible capacity	Ex ante discount reflecting the probability of interruption	Can be as today or as per IP	Any different approach IP vs Non-IP would need to consider relevant objectives
Existing Contracts	Price can't be adjusted for contracts concluded before 29 November 2013	Applies to all poir	its, Entry only.	Does not apply to Exit as Exit already has administered prices

Discussion: nati NTS Optional Commodity ("Shorthaul")

NTS Optional Commodity Charge ("Shorthaul") arrangements and how they may need to change

Key Points on current arrangements:

- NTS Optional Commodity charge ("Shorthaul") as we have it in GB is a product designed to encourage use of the NTS rather than bypass the NTS with potentially inefficient market investment
- Current GB method provides an Optional Commodity rate intending to link to estimated investment costs
- Provides exemption from all other commodity rates (except St Fergus compression)

Potential changes	Interconnection Point application	Non Interconnection Point application	Comments
If Linked to Commodity	Could only be linked to SO Residual Commodity (i.e. no discount from cost to flow commodity)	Could only be linked to SO Residual Commodity (i.e. no discount from cost to flow commodity) from Non Transmission Services and CRRC for Transmission Services	If applied differently between IP and Non IP would need to consider relevant objectives of any charges (e.g. cost reflective, non-discriminatory)
If linked to Capacity	Considered an Alternative Transmission Tariff – provide discount from Capacity Reserve prices	Considered an Alternative Transmission Tariff – provide discount from Capacity Reserve prices	Alternative transmission tariffs link to capacity definitions under CAM Article 7a(2) that may restrict the capacity and mechanisms it could be applied to.

Summary of potential change:

- Relevant objectives would need to be an input as would fit with Transmission or Non Transmission Services
- Dual regime (separate IP/Non-IP approach) could be complex and potentially against objectives
- A change to the methodology of calculating / application would need to take into account the whole charging methodology including interactions, any alternative product cannot be designed in isolation
- Would need to account for any changes required to capacity definitions / auctions / processes

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Storage charges and the methodology for applying any relevant discounts / alternative approaches

Key Points on current arrangements:

- On the NTS, eligible flows for commodity charges relate only to "new gas" on the NTS. Any flows in and out of storage once entered onto the NTS exempt to avoid double counting of gas.
- Storage have same arrangements for capacity as for all Entry and Exit points
- Provides exemption from all commodity rates (except St Fergus compression)

Potential changes	Interconnection Point application	Non Interconnection Point application	Comments
Linked to Capacity	EU Tariffs Code mandates a minimum discount of 50% from Capacity reserve price. Applies to all points. Reserve prices can float, recalculated each year. Scope for discount to be reviewed and updated within permitted timescales.		Becomes a GB discussion how to structure beyond the minimum requirement of EU Tariffs Code.

Summary of potential change:

- · Relevant objectives would need to be an input
- A change to the methodology of calculating / application would need to take into account EU Tariff's Code requirements for Storage, overall charging methodology including interactions. Discounts to and from storage facilities cannot be designed in isolation.
- · Would need to account for any changes required to capacity definitions / auctions / processes
- Any combined ASEPs (with Storage) may need to be split.



Non Transmission Services and Dual Regime

Charge	Detail	Comments
Flow Based charge covering costs mainly driven by quantity of gas flow	Potentially could be equivalent to Shrinkage values	Can be applied to all points
Residual	Remainder of revenue from target SO can be subject to separate method, could be via a Commodity Charge	Can be applied to all points
Special arrangements	Becomes a GB discussion about whether or not to have any alternative charging arrangements for Non Transmission Services	Can be applied to all points

Summary for Non Transmission Services under Dual Regime scenarios

- Under the EU Tariffs Code there are more prescribed elements for Transmission Services, leaving potentially more flexibility for Non Transmission Services
- Becomes a GB Discussion as to what the optimal approach is, subject to NRA approval
- Subject to GB discussion and Ofgem approval

Current GB Framework for Revenues and recovery



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Revenues and recovery – What may^{national}**grid be permitted based on our EU understanding**[#]

Total TO and SO Allowed Revenue





Summary

- Irrespective of treatment some areas will need to be reviewed as any inclusion in the overall methodology will likely be different to today
 - NTS Optional Commodity charge, Storage Short term pricing, Revenue reconciliation
- Dual Regime arrangements, whilst permitted, could be complex.
 - Relevant objectives will be integral.
- Alignment with Ofgem's GTCR policy needs to be considered
- Reviewing the aspects discussed will contribute towards a methodology that, as a whole, is suitable for GB.

Next Steps





Next Steps

- We are proposing to refine further comparisons of CWD and LRMC building in:
 - Continued discussions on principles behind using either approach
 - Long Term, Short Term pricing, behavioural considerations
 - Discussions on alternate products e.g. storage
 - Developments in EU Tariffs Code
- Feedback and input is important to develop these
 - Please contact us if there are any areas we should be considering

Contact us



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