**Gas Transmission** 

NTSCMF

FCC Development - Summary

2 March 2021

nationalgrid



#### **FCC Workshops:**

- 04/02 Initial discussions on range of topics, focus on flows and utilisations and some inputs to help shape FCC thinking
- 11/02 Suggested key inputs for FCC, an approach for Exit including a summary values of the outputs this
  would have on FCC
- 18/02 Initial Entry Approach shared at principle level, series of steps and summary data
- **25/02** Updated Exit numbers from those shared on 11/02 and re-run through the entry steps including summary data applying this.
  - Material from 25/02 is presented here.

- All material will soon be available on the NG website here:
  - https://www.nationalgrid.com/uk/gas-transmission/charging/gas-charging-discussion-gcd-papers



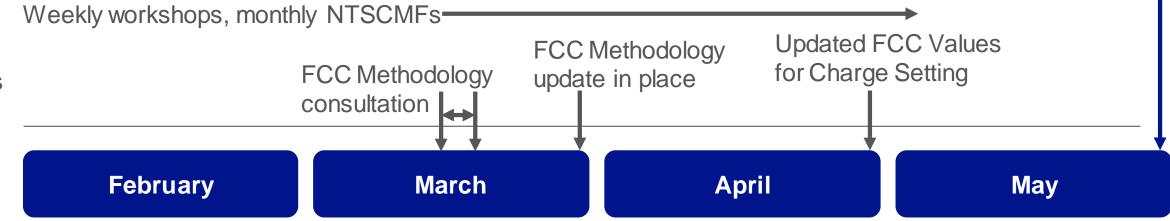
#### **Agenda**

- Timetable to follow reminder of dates
- Reflections from discussion on 18<sup>th</sup> February
- For review
  - Updates to Exit
  - Entry overview & some initial numbers

## High level timeline between now and May 2021:

Publication of October 2021 Entry and Exit Reserve Prices

FCC Updates



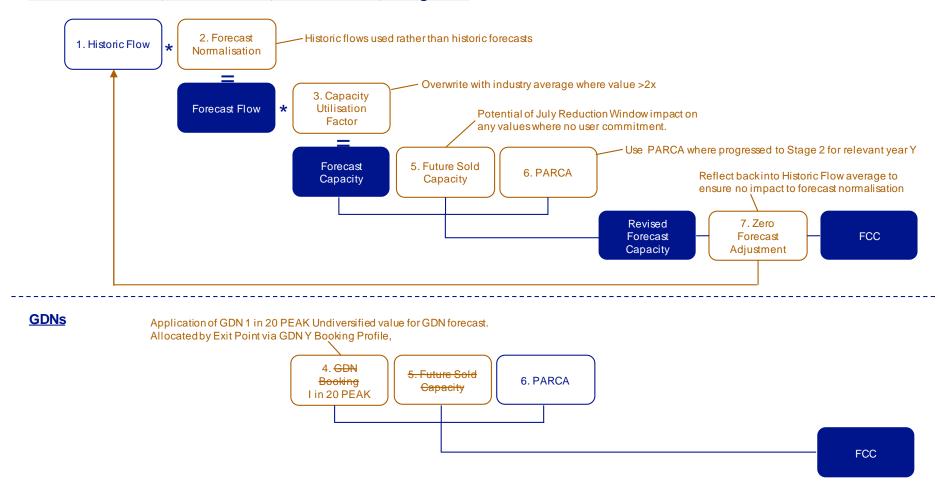
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#### Discussions and reflections from previous session

#### High level overview of what was discussed on 18th February:

- Difficult to get an actual forecast and what we all want is an accurate forecast.
- Sensitivities on the FCC and what the impact would be if incorrect forecast is used. One we will look to provide some sensitivities at suitable point to make them relatable.
- PARCA's look at whether should look at the value for all gas years even at Stage 2 as the date may change
- GDN links to the Exit Capacity Planning Guidance which is going to be introduced as part of RIIO T2
- Entry specific: review of proposed methodology to follow to determine an initial set of numbers.
- Quarterly FCC values to create an annual value is a good idea for Entry, would this also be used to inform the phasing?
   Phasing may mean different things to people. It may be revenue assumed phasing from a revenue collection assumptions (to potentially inform RRC expectations). The use of the quarterly values in determining an annual FCC is another approach on phasing that is now part of the Entry FCC development.
- Overall seems in the right direction of travel noting refinements will be likely and balance on detail for the FCC Methodology
- Transparency we will look at how we provide data externally shortly.

#### DC - Power Stations, DC - Industrials, Interconnectors, Storage Sites



DC - Power Stations, DC - Industrials, Interconnectors, Storage Sites

	\	
1. Historic Flow	*	2. Forecast Normalisation

Exit Point Type kWh/d	FCC Oct 2020	oaci
DC - POWER STATION	1,194,587,120	ctor
DC - INDUSTRIAL	212,555,576	cas
GDN	4,190,830,954	
INTERCONNECTOR	418,322,360	
STORAGE SITE	478,702,679	

Draft* FCC Oct 2021	Variance from Oct 2020	%	Current Variance from Forecast FCC		
910,409,057	-351,650,148	-28%	-26%		
110,998,133	-34,085,358	-23%	-22%		
3,979,629,092	-211,201,862	-5%	-3%		
410,637,756	-7,684,604	-2%	-52%**		
230,257,653	-248,445,026	-52%	-49%		

TOTAL	6,494,998,689	DN	5,641,931,692	-853,066,997	-13%	-15%

<sup>\*</sup> Proof of Concept / indicative data values only.

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<sup>\*\*</sup> Interconnection variance driven by winter/summer profile.

# **Draft Proposal – Exit FCC Methodology (from**

DC - Power Station	s, D. landusarials,	Interconnectors, Storage Sites
11 (17	フロフ'	Interconnectors, Storage Sites
	7	
	*	

Exit Point Type kWh/d	FCC Oct 2020		Draft FCC Oct 2021	Variance from Oct 2020	%	Current Variance from Forecast FCC
DC - POWER STATION	1,194,587,120	5. Future S Capacit	1,002,122,031	-192,465,088	-16%	-26%
DC - INDUSTRIAL	212,555,576		165,033,904	-47,521,672	-22%	-22%
 GDN	4,190,830,954		4,156,889,131	-33,941,823	-1%	-3%
INTERCONNECTOR	418,322,360	. Future S Capacity	305,521,202	-112,801,158	-27%	-52%
STORAGE SITE	478,702,679		230,257,653	-248,445,026	-52%	-49%
TOTAL	6,494,998,689		5,859,823,921	-635,174,768	-10%	-15%

DC - Power Stations, DC - Industrials, Interconnectors, Storage Sites

Exit Point Type kWh/d October 2021	1) Historic Flows	2) Normalisation Factor	3) Utilisation Factor	4) GDN Bookings 1 in 20 PEAK Und	5) Future Sold	6) PARCA	7) Zero Forecast Flow		Draft* FCC October 2021
DC - POWER STATION	628,706,892	459,007,352	533,674,604		565,606,179	125,708,061			910,409,057
DC - INDUSTRIAL	60,588,260	63,754,249	88,339,382		85,577,773	0			110,998,133
GDN				3,979,629,092	4,085,703,994	78,361,242			3,979,629,092
INTERCONNECTOR	256,706,727	363,282,544	410,637,756		15,012,000	0			410,637,756
STORAGE SITE	116,068,480	116,068,480	125,220,989		142,488,582	0			230,257,653
<u>GDNs</u>							-	_	
TOTAL	1,062,070,359	1,002,112,624	1,157,872,731	3,979,629,092	4,894,388,528	204,069,303			5,641,931,692

<sup>\*</sup> Proof of Concept / indicative data values only.

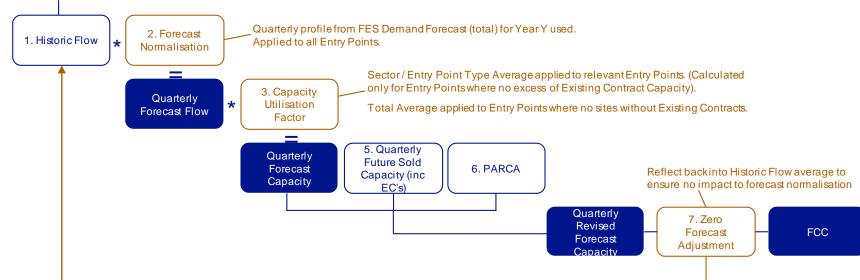
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### **Draft Proposal – Exit FCC Methodology (as of 11 02 21)**

1. Historic Flow	2. Fored Normalis								
Exit Point Type kWh/d October 2021	1) Historic Flows	2) Normalisation Factor	3) Utilisation Factor	4) GDN Bookings	5) Future Sold	6) PARCA	MAX	7) Zero Forecast Flow	Draft FCC October 2021
DC - POWER STATION	580,686,932	625,784,558	764,527,230		547,289,241	129,086,309	1,042,190,096	-40,068,065	1,002,122,031
DC - INDUSTRIAL	108,879,099	110,341,617	147,162,438		103,894,711	0	165,033,904	0	165,033,904
GDN				4,134,257,584	4,085,703,994	78,361,242	4,156,889,131	0	4,156,889,131
INTERCONNECTOR	256,706,727	270,288,150	305,521,202		15,012,000	0	305,521,202	0	305,521,202
STORAGE SITE	116,068,480	116,068,480	125,220,989		142,488,582	0	230,257,653	0	230,257,653
<u>GDNs</u>									
TOTAL	1,062,341,238	1,122,482,804	1,342,431,859	4,134,257,584	4,894,388,528	207,447,551	5,899,891,986	-40,068,065	5,859,823,921
			1. GDN ookings	5. Future Sold Capacity	6. PARCA				

• This example is based on taking the maximum of Flow/GDN Bookings, Future Sold and PARCA data.

Collated by Entry Pointat a quarterly profile over 5 years (Y-2 to Y-6) of historic flows,



Entry Point Type kWh/d	FCC Oct 2020
STORAGE SITE	1,498,713,162
INTERCONNECTOR	178,627,070
BEACH TERMINAL	2,647,252,684
ONSHORE FIELD	14,936,971
BIOMETHANE PLANT	500,000
LNG	1,292,768,219

Draft* FCC Oct 2021	Variance from Oct 2020	%	Q4 Variance from Forecast FCC
1,453,139,724	-45,573,438	-3%	-11%
118,946,132	-59,680,938	-33%	-12%
2,164,354,440	-482,898,244	-18%	-15%
11,875,295	-3,061,676	-20%	-48%
500,000	0	0%	-
1,225,146,301	-67,621,918	-5%	17%**

TOTAL	5,632,798,106		
Existing Contract	3,853,587,697		
Remaining Capacity	1,779,210,409		

4,973,961,893	-658,836,213	-12%	-7%
3,513,712,187	-339,875,510	-6%	
1,460,249,706	-318,960,703	-6%	

<sup>•</sup> Proof of Concept / indicative data values only.

<sup>\*\*</sup> Q4 Forecast differential due to difference between phasing assumptions and EC winter/summer profiles.

Entry Point Type kWh/d October 2021	1) Historic Flows				2) Forecast Normalisation				3) Utilisation Factor			
0010501 2021	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3
STORAGE SITE	94,597,469	175,750,555	84,246,083	75,049,350	94,597,469	175,750,555	84,246,083	75,049,350	100,416,583	186,561,760	89,428,438	79,665,972
INTERCONNECTOR	180,540,148	275,507,039	15,691,421	2,361,766	170,975,627	264,389,351	13,497,771	2,104,298	181,283,624	280,329,193	14,311,541	2,231,164
BEACH TERMINAL	2,201,348,087	2,380,191,760	1,737,234,768	1,570,761,855	2,084,726,725	2,284,142,565	1,494,370,462	1,399,525,204	2,317,395,443	2,539,067,355	1,661,151,679	1,555,721,088
ONSHORE FIELD	14,274,594	12,152,471	10,433,163	9,991,326	13,518,365	11,662,076	8,974,613	8,902,122	14,913,641	12,865,758	9,900,913	9,820,939
BIOMETHANE PLANT	0	0	0	0	0	0	0	0	0	0	0	0
LNG	358,126,283	401,469,442	357,229,953	197,438,296	339,153,738	385,268,723	307,289,435	175,914,554	374,158,936	425,033,604	339,005,811	194,071,287
TOTAL	2,848,886,580	3,245,071,267	2,204,835,388	1,855,602,592	2,702,971,924	3,121,213,270	1,908,378,364	1,661,495,526	2,988,168,228	3,443,857,670	2,113,798,383	1,841,510,451

<sup>\*</sup> Proof of Concept / indicative data values only.

Entry Point Type kWh/d October 2021	d			5) PARCA				Applicable Quarterly Capacity Forecast			Draft* FCC October 21		
00.000. 202.	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
STORAGE SITE	1,427,035,000	1,654,925,000	1,355,035,000	1,355,035,000	0	0	0	0	1,434,554,375	1,654,925,000	1,365,990,618	1,360,528,267	1,453,139,724
INTERCONNECTOR	27,150,000	151,502,392	0	0	0	0	0	0	181,283,624	280,329,193	14,311,541	2,231,164	118,946,132
BEACH TERMINAL	1,532,118,647	1,975,510,058	192,949,179	210,314,236	0	0	0	0	2,515,204,559	2,936,660,094	1,661,151,679	1,555,721,088	2,164,354,440
ONSHORE FIELD	0	0	0	0	0	0	0	0	14,913,641	12,865,758	9,900,913	9,820,939	11,875,295
BIOMETHANE PLANT	500,000	500,000	500,000	500,000	0	0	0	0	500,000	500,000	500,000	500,000	500,000
LNG	1,519,300,000	1,519,300,000	932,600,000	932,600,000	0	0	0	0	1,519,300,000	1,519,300,000	932,600,000	932,600,000	1,225,146,301
TOTAL	4,506,103,647	5,301,737,450	2,481,084,179	2,498,449,236	0	0	0	0	5,665,756,198	6,404,580,045	3,984,454,752	3,861,401,459	4,973,961,893

<sup>\*</sup> Proof of Concept / indicative data values only.

**Gas Transmission** 

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02 March 2021

FCC Development – Next Steps

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#### **Next Steps:**

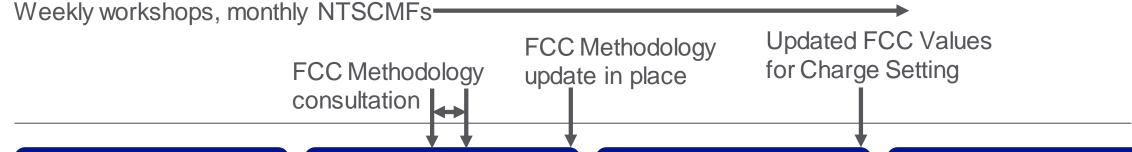
- Provision of data to support what's been shared to date
- Drafting of the FCC Methodology for comment
- Iterative development on feedback, in preparation for consultation in March
- Aim to have the FCC Methodology in place for the end of March
  - Working within the methodology should not prevent use or application of any relevant or beneficial updates for the FCC and would require National Grid to explain any such condition.
- FCC itself we are aiming for end of April providing time to refine the FCC values and also understand the application into the potential prices.
- Throughout transparency is important for the methodology, the FCC and how the FCC Methodology has been applied.

## High level timeline between now and May 2021:

Publication of October 2021 Entry and Exit Reserve Prices

May

FCC Updates



**April** 

Worksho p	Agenda	Worksho p	Agenda	Worksho p	Agenda		
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March

**February** 

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