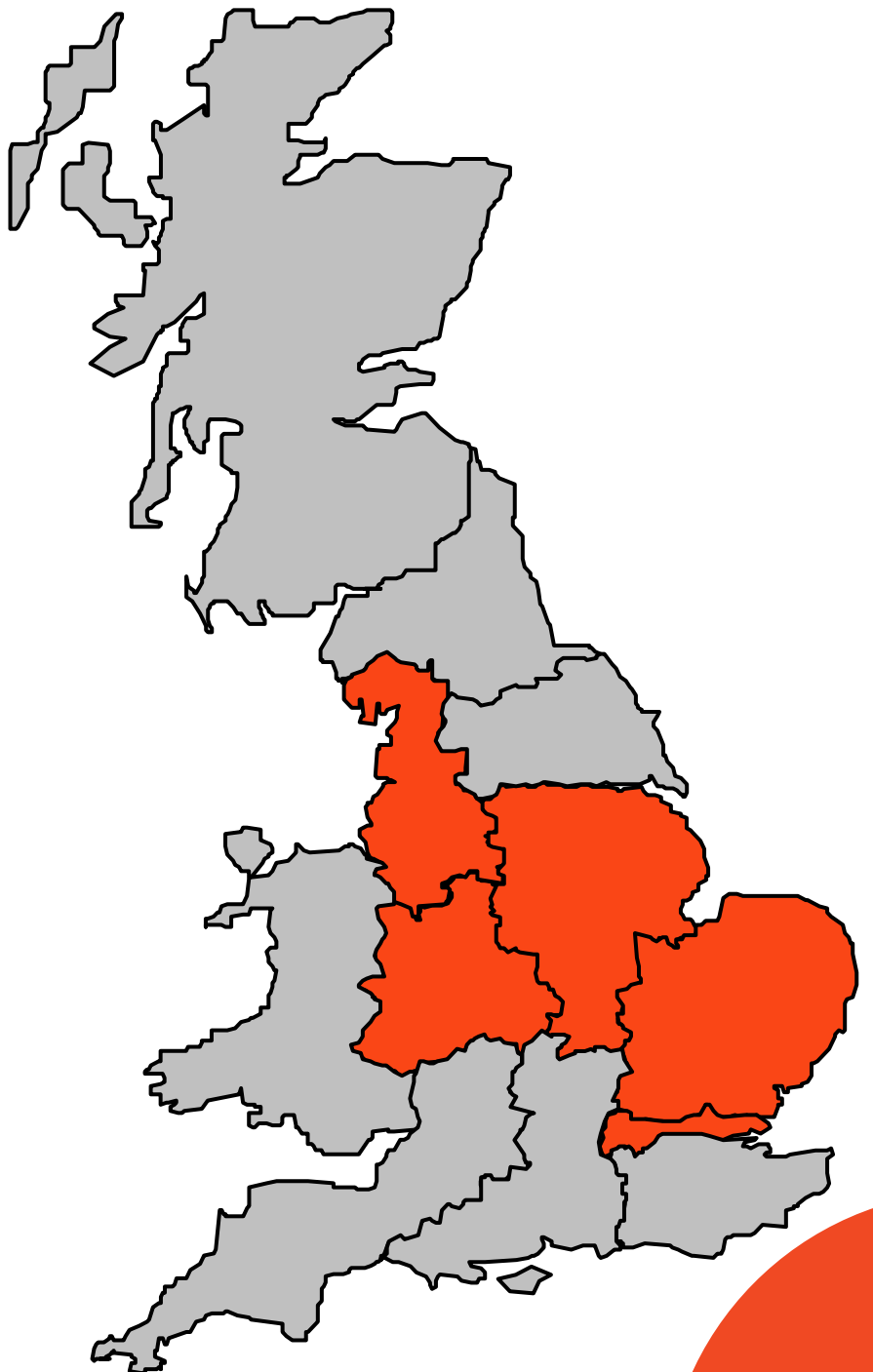


# Exit Capacity Planning Guidance 2024 Outcomes Report

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# Executive Summary

## Overview

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To meet our license obligations, the NGT Exit Capacity that we book needs to be sufficient to ensure we are able to meet demand on a peak 1:20 winter day. Every Gas Year (1st October to 30<sup>th</sup> September), we are required to book exit capacity from the National Transmission System for each of our 49 offtakes.

As per the Exit Capacity Planning Guidance document (ECPG), which forms part of a new licence condition introduced under RII02 (**Standard Special Condition A57: Exit Capacity Planning**), Cadent are now obliged to report on the outcome of the annual bookings process.

This year:

- The Cadent Peak Day demand forecast has shown a 3.01% increase over the previous year
- The average change from year 1 to year 6 of the forecast indicates a 5.04% decrease, suggesting a slow recovery from the effects of the high energy costs
- Assured pressures were discussed with National Gas Transmission (NGT) and some changes were agreed
- No major changes have been made to booking patterns from last year
- Capacity bookings are higher than our approved Peak Day forecasts for the coming gas year due to User Commitment obligations, resulting in a surplus in all networks. Cadent continues to be compliant with the obligations as set out in the ECPG

# Analysis

## Demand Forecast

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### Context

Cadent endeavours to book in line with the approved Peak Day demand forecast, thereby ensuring we remain compliant with the 1:20 licence obligation and not put it at risk.

Cadent have used the 2024 5-year Central Forecast provided by National Grid ESO as we do every year.

Under Cadent's Gas Transporter Licence **Standard Special Condition A11** Cadent has an obligation to demonstrate its ability to meet our 1:20 Peak Day Demand, this approach pursues full compliance with regards to that obligation.

Every year we receive from NG-ESO a forecast based on four different pathways, as well as a central forecast which is their view of a more accurate representation of where NGT expect demand to be over the next 5 years for Cadent.

The four Future Energy Pathways are;

- Electric Engagement (high levels of societal change and fast decarbonisation)
- Holistic Transition (high levels of societal change and mix of electrification and hydrogen)
- Hydrogen Evolution (low societal change and high levels of hydrogen use in industry & heat)
- Counterfactual (low societal change and slow decarbonisation, Net Zero not achieved by 2050)

NG-ESO have provide a "Central Forecast" which they believe is an accurate forecast for the level of expected demand in each distribution network. This forecast shows sustained growth consistent with the Counterfactual Pathway discussed above. As a result of the recommendations above by NG-ESO, and following formal governance process within Cadent, the Cadent Board approved the use of the Central Forecast.

As a result, the overall trend on each network, as received from NG-ESO, is as follows:

- **East Anglia**  
Peak forecasts are 1.8% above the 23/24 forecast. This is still below the predicted forecast for 24/25 from last year. The reason for the increase is due recovery of domestic demand however it was a smaller recovery than was predicted last year.
- **East Midlands**  
Peak forecasts are 5.65% above the 23/24 forecast. This is above the predicted forecast for 24/25 from last year. The reason for the increase is due recovery of domestic demand, however it was a faster recovery than was predicted last year.

- North London**  
 Peak forecasts are 6.41% above the 23/24 forecast. This is above the predicted forecast for 24/25 from last year. The reason for the increase is due recovery of domestic demand, however it was a faster recovery than was predicted last year.
- North West**  
 Peak forecasts are 0.49% above the 23/24 forecast. This is slightly below the predicted forecast for 24/25 from last year. The reason for the increase is due recovery of domestic demand however it saw a large fall in weather corrected demand for domestic users.
- West Midlands**  
 Peak forecasts are 0.76% above the 23/24 forecast. This is slightly below the predicted forecast for 24/25 from last year. The reason for the increase is due recovery of domestic demand however it saw a large fall in weather corrected demand for domestic users.

See Tables 1, 2 & 3 for details of the LDZ demand forecast, and Table 4 for the Topology breakdown.

**Table 1 – This year -v- last year (mcm/d)**

LDZ	2023/24 Peak Day Forecast (mcm/d)	2024/25 Peak Day Forecast (mcm/d)	Change from 2023/24 Peak day forecast (mcm/d)	% Change from 2023/24 Peak day forecast
EA	29.438	29.966	0.528	1.79%
EM	37.110	39.205	2.095	5.65%
NL	34.842	37.076	2.234	6.41%
NW	43.166	43.380	0.214	0.50%
WM	31.643	31.883	0.240	0.76%
<b>Total</b>	<b>176.199</b>	<b>181.510</b>	<b>5.311</b>	<b>3.01%</b>

**Table 2 – This year down the Demand Curve (mcm/d)**

Yr 1	EA	EM	NL	NW	WM
<b>Pk</b>	29.966	39.205	37.076	43.380	31.883
<b>D13</b>	25.975	33.280	31.669	36.604	27.028
<b>D46</b>	19.008	25.096	23.005	27.396	19.621
<b>D150</b>	12.420	17.007	15.090	19.026	12.974
<b>D300</b>	4.367	6.494	5.348	8.242	4.797

**Table 3 – Future years (mcm/d)**

	EA	EM	NL	NW	WM
Yr 2	30.078	39.158	37.062	43.461	31.870
Yr 3	29.780	38.681	36.600	42.926	31.478
Yr 4	29.074	37.766	35.751	42.186	30.739
Yr 5	28.317	36.982	35.010	41.895	30.161
Yr 6	28.317	36.982	35.010	41.895	30.161

**Table 4 – Forecast by Topology (mcm/d)**

EA - 2024/25	Topology	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6

**This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure**

EM - 2024/25	Topology	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6

**This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure**

NL - 2024/25	Topology	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	<p><b>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</b></p>						

NW - 2024/25	Topology	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	<p><b>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</b></p>						

WM - 2024/25	Topology	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	<p><b>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</b></p>						

Our approach meets the 1:20 peak day obligation with a combination of Enduring, and Annual capacity products for years 1, 2 & 3, and addresses the risk that daily capacity products may not be available in the event of an NGT constraint being called. In this circumstance, the level of enduring capacity plus our annual capacity bookings would enable us to meet the Peak Day requirement in all of our Networks. For years 4, 5 & 6 Enduring capacity is booked as required.

Cadent takes a holistic approach to both capacity planning and asset investment and one feeds into the other to ensure that we have the most efficient overall operational approach and asset investment strategy for our networks.

We are compliant with **Standard Special Licence Condition (“SSC”) A57 (Exit Capacity Planning)** of the gas transporter licence and **Standard Special Condition A11**, and as outlined above have mitigated the associated risk of insufficient capacity for a peak day. We have also ensured that we have sufficient pressures in our networks at each extremity point.

As per previous reports, the introduction of SSC A57 means that Cadent no longer use a combination of annual and daily products to meet our 1 in 20 requirements. Under RII02 we use long term products only as these have been deemed more efficient than using daily products.

Increases in demand forecasts over previous years and due to localised demand. This has resulted in a need for some increases in assured pressures to meet the requirement for capacity at certain offtakes.



# Storage Requirements

## Modelling

### CONSUS

Consus is a storage simulation tool that is used to determine the amount of storage required at a given demand level. Two data files are needed for each LDZ from the control room SCADA system. These are Hourly Demands and FE Data (Forecast Error). The remaining data comes from the demand forecast supplied by National Gas, (LDEM & Peak Day Forecast), and a file downloaded from the National Gas Data Item Explorer on their website (historic CWV) or via Xoserve's data files.

The files are loaded into the Consus application supplied by DNV and the tool is run. The report produced by the tool is saved for audit purposes and the results used to determine the storage level required for the coming winter.

For the coming winter requirement for each LDZ is as follows:

**Table 5 – Storage Requirement (mcm/d)**

LDZ	Storage Requirement
EA	4.271
EM	5.803
NL	4.820
NW	6.359
WM	4.690

All requirements are met through a combination of linepacking, (storage created within the pipeline by cycling the pressures between the upper and lower limits), NTS Exit (Flex) Capacity or other within network options, such as storage pipelines or a salt cavity.

# Interaction

## With Other Networks

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### **Within Cadent**

The EM and WM networks have transfer points at 3 locations. The EA and NL networks have transfer points at 7 locations. These are all managed through the bookings process.

### **Other Distribution Networks (DNs)**

Cadent has transfers with SGN at four locations: one with EM and three with NL. At all four, gas is taken from SGN into the Cadent network. Following the application of the accepted demand forecast to the network models, the requirement was communicated to SGN on the standard template used in previous years.

Acknowledgement was received from SGN that the forms had been received and no further communication was received to suggest that there would be any issue with accommodating the requested flows.

### **National Gas and National Grid ESO**

Cadent had 2 meetings with NG ESO to discuss the demand forecasts; the first to get an overview of what the forecasts were likely to be and the second to confirm that there were no questions / issues with the forecasts received

Subsequently, a meeting was held with NGT to discuss the assured pressures; where any changes were likely to be possible, and the reasons for rejections of requests. Where Pressure requests have not been met, Cadent continue to operate as efficiently as possible given the configuration allowed.

Lastly meetings were held with NGT on 3 occasions to discuss what Cadent's bookings were likely to be and whether these were likely to be acceptable to NGT.

# Final Outcomes

## Bookings

### Summary

All requests for Annual Flat capacity were met for all three years. Increases in Flex were met for all three years.

Requests for increased Start of Day (SOD) and End of Day (EOD) pressures were met in some cases and not others. For offtakes where the request was denied, table 11 shows the associated costs of obtaining the capacity in another way.

### Reductions to Bookings

For the first three years of the booking period, the existing Enduring Bookings for flat capacity were supported by annual bookings where needed. Where the booked capacity differs from the forecast demand, this is due to the minimum change possible in Gemini of 100,000kWh. There are instances where Enduring levels of capacity are in excess of the Peak forecast. Cadent is currently unable to make the required Reductions this gas year due to User Commitment obligations being in place at the offtakes in question.

Due to industry changes affecting the regulatory framework, such as the removal of the capacity incentive and the introduction of the ECPG, some reductions to the Enduring Bookings were also made. The sites where reductions were made are listed in Table 6 below.

**Table 6 – Sites with reductions to the Enduring booking**

LDZ	Site	Comments
EM		
EM		<b>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</b>
NW		
NW		
NW		
WM		

## Increases to Bookings

Any changes needed were made to the Enduring Bookings. These are shown in the table 7 below.

**Table 7 – Sites with increases to the Enduring bookings**

LDZ	Site	LDZ	Site
EA	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure	EM	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure
	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure		This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure
	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure		This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure
	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure		This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure
NL	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure	NW	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure
	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure		This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure
	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure		This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure
	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure		This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure
WM	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure		
	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure		
	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure		
	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure		

**Table 8 – Year 1 Flat and Flex**

The following tables show the booked flat, flex and assured pressures for year 1 for each LDZ. Where the Flat amount is in orange italics, it is yet to be confirmed by NGG in Gemini.

EA - Year 1	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d

This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure

EM - Year 1	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>											

NL - Year 1	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider</p>											

NW - Year 1	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

WM - Year 1	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

**Table 9 – Flat and Flex for Years 2-6**

Where the Flat amount is in orange italics, it is yet to be confirmed by NGG in Gemini at the time of publication.

EA - Year 2	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d

This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure



EA - Year 3	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>											

EA - Year 4	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>											

EA - Years 5 + 6	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

EM - Year 2	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

EM - Year 3	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

EM - Year 4	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

EM - Years 5 + 6	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

NL - Year 2	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

NL - Year 3	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

NL - Year 4	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

NL - Years 5 + 6	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

NW - Year 2	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

NW - Year 3	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

NW - Year 4	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

NW - Years 5 + 6	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									



WM - Year 2	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

WM - Year 3	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

WM - Year 4	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>											

WM - Years 5 + 6	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d	Flat mcm/d	Flex mcm/d
<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>											

**Table 10 – SOD and EOD Pressures**

Network analysis has been carried out under all of the demand levels listed below to determine the minimum pressures required to maintain security of supply across the system. The resultant pressures are contained within each of the tables.

EA - 2024/25	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		SOD	EOD	SOD	EOD	SOD	EOD	SOD	EOD	SOD	EOD
		Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures
		<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>									

EM - 2024/25	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		SOD	EOD	SOD	EOD	SOD	EOD	SOD	EOD	SOD	EOD
		Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures
<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>											

NL - 2024/25	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		SOD	EOD	SOD	EOD	SOD	EOD	SOD	EOD	SOD	EOD
		Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures
<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>											

NW - 2024/25	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		SOD	EOD	SOD	EOD	SOD	EOD	SOD	EOD	SOD	EOD
		Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures
<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>											

WM - 2024/25	Topology	1:20 peak day		Day 13		Day 46		Day 150		Day 300	
		SOD	EOD	SOD	EOD	SOD	EOD	SOD	EOD	SOD	EOD
		Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures	Pressures
<p>This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure</p>											

# Pressure Requests from NGT

## Cost of meeting Requests

### Requests from NGT for a Decrease

The reasons for rejecting the requests for reduced pressures are all linked to the physical capacity of the offtake, and the ability to meet Peak Day obligations and security of supply.

Table 11 below shows the requests that were rejected, and the indicative cost of investment associated with accepting the request.

**Table 11 – Rejected requests for a decrease**

LDZ	Offtake	Rejection Reason	Indicative Cost of Acceptance	
	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure			
	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure			
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	This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure			

### Requests from Cadent for an Increase

The reason for requesting an increase in pressure are all due to offtake capacity.

Table 12 below shows the requests that were rejected by NGT, and the costs for Cadent associated with this rejection. As a general rule the inlet pressures to the Offtake are higher than the SOD and EOD assured pressures and the therefore, where Pressure requests have not been met, Cadent continue to operate as efficiently as possible given the configuration allowed.

**Table 12 – Rejected requests for an increase**

LDZ	Offtake	Rejection Reason	Indicative Cost of Acceptance	

This information has been redacted due to its sensitivity in line with DESNZ and the CPNI general principles of security around its wider disclosure

No cost estimates were provided

## Conclusion

### Forecast -v- Bookings

All Networks have capacity levels in excess of that required to meet Peak Demand Forecasts for years 1 - 3. Where the surplus is negative, the additional gas will be booked through Annuals in subsequent bookings windows. As stated previously, due to User Commitment obligations Cadent is unable to make the necessary Reductions to capacity booking levels that would bring them in-line with the Peak Day forecasts. As all steps have been taken to meet this obligation, Cadent considers itself to be in compliance with the requirements of **SSpC A57: Exit Capacity Planning** and the ECPG. Further discrepancies between the 2 as seen in WM Yr 2 and Yr 3 are due to inter-LDZ transfers.

The table below shows the Peak Day Forecast and our corresponding capacity bookings;

**Table 13 – Peak Day Forecast -v- Booking (mcm/d)**

EA	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6
Forecast	29.438	30.849	30.849	30.455	29.815	29.815
Booking	31.691	31.678	31.718	31.867	31.886	31.886

EM	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6
Forecast	37.110	38.749	38.718	38.178	37.364	37.364
Booking	40.898	41.173	41.223	41.084	41.099	41.099

NL	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6
Forecast	34.843	36.491	36.451	35.965	35.189	35.189
Booking	37.663	37.663	37.786	37.767	37.777	37.777

NW	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6
Forecast	43.166	45.099	45.187	44.562	43.679	43.679
Booking	44.922	45.559	48.913	45.242	45.209	45.209

WM	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6
Forecast	31.643	33.103	33.081	32.613	31.899	31.899
Booking	32.870	32.937	32.966	32.738	32.720	32.720

Cadent	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6
Forecast	176.199	184.292	184.286	181.774	177.945	177.945
Booking	188.045	189.010	192.606	188.699	188.690	188.690



## User Commitment

The tables below show surplus bookings made due to existing User Commitment and the minimum change possible in Gemini. Where the surplus is negative, the additional gas will be booked through Annuals in following years.

**Table 14 – Surplus booked capacity**

	Year 1		Year 2	
	FALCON 2025 Plan Peak Flow (mcm/d)	FALCON 2025 Plan Peak Flow (GWh/d)	Scaled FALCON Flow (mcm/d)	Scaled FALCON Flow (GWh/d)
EA	1.848	20.056	1.694	18.389
EM	1.693	18.583	1.897	20.822
NL	0.587	6.456	0.668	7.352
NW	4.426	48.683	4.348	47.823
WM	1.038	11.416	1.018	11.198
<b>Total</b>	<b>9.591</b>	<b>105.194</b>	<b>9.625</b>	<b>105.585</b>

	Year 3		Year 4	
	Scaled FALCON Flow (mcm/d)	Scaled FALCON Flow (GWh/d)	Scaled FALCON Flow (mcm/d)	Scaled FALCON Flow (GWh/d)
EA	2.161	23.459	0.482	5.231
EM	2.224	24.414	1.676	18.392
NL	1.186	13.046	2.017	22.185
NW	4.452	48.970	2.726	29.982
WM	1.164	12.803	-0.770	-8.472
<b>Total</b>	<b>11.187</b>	<b>122.692</b>	<b>6.130</b>	<b>67.318</b>

	Year 5		Year 6	
	Scaled FALCON Flow (mcm/d)	Scaled FALCON Flow (GWh/d)	Scaled FALCON Flow (mcm/d)	Scaled FALCON Flow (GWh/d)
EA	0.158	1.719	0.158	1.719
EM	0.817	8.970	0.817	8.970
NL	2.767	30.433	2.767	30.433
NW	1.117	12.287	1.117	12.287
WM	-0.848	-9.323	-0.848	-9.323
<b>Total</b>	<b>4.012</b>	<b>44.086</b>	<b>4.012</b>	<b>44.086</b>

In external versions of this publication some of the information has been redacted for the protection of Critical National Infrastructure (CNI). Interested parties seeking to source an unredacted version of this publication can do so after entering into a Non- Disclosure Agreement with Cadent.

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