

Gemini System Enhancements External Screens Pack

Copyright reserved Xoserve confidential

Author (for this version):	Wipro Limited
Owner:	Xoserve
Document Reference:	GSE_External_Screens_Pack
Version:	2.0
Status:	Approved
Date:	23-Sep-2021

Table of Contents

1	Introduction	5
2	Entitlements	6
2.1	Overview	6
2.2	Entitlements Screen	6
3	Gemini Dashboard Home Screen	10
3.1	Gemini Dashboard Home: Entitlement Vs Nomination.....	13
3.2	Gemini Dashboard Home: BA Hourly Scheduled Balance	15
3.3	Gemini Dashboard Home: Hourly Linepack.....	16
3.4	Gemini Dashboard Home: SAP.....	17
4	Gemini Dashboard Balancing Screen	18
4.1	Gemini Dashboard Balancing: Nomination & Trade Nomination	19
4.2	Gemini Dashboard Balancing: Allocation by Meter Type & Direction	21
4.3	Gemini Dashboard Balancing: Allocation and Nomination Details by Meter ID Screen.....	22
4.4	Gemini Dashboard Balancing: Allocation by Meter Type & Meter ID Screen	25
4.5	Gemini Dashboard Balancing: EU Nomination (kWh) for interconnector Points Screen	27
5	Gemini Dashboard Capacity Screen	30
5.1	Gemini Dashboard Capacity: Auction Calendar Dashboard.....	31
5.2	Gemini Dashboard Capacity: Bids and Trades Screen.....	34
5.3	Gemini Dashboard Capacity: Top and Bottom 5 Entitlements Screen	35
6	Gemini Dashboard Invoice Screen.....	37
6.1	Gemini Dashboard Capacity: Schedule Of Invoices Calendar Dashboard.....	37
7	Bid Information	37
7.1	Overview	37
7.2	Bid Information Screen	38
8	Bid Information Detail Report.....	40
8.1	Overview	40
8.2	Bid Information Detail Report Screen.....	40
9	Request Information Detail Report.....	42
9.1	Overview	42
9.2	Request Information Detail Report Screen	42
10	Trade Details.....	44
10.1	Overview.....	44

10.2	<i>Trade Details Screen</i>	44
11	Meters	46
11.1	<i>Overview</i>	46
11.2	<i>Meters Screen</i>	46
12	OCM/OTC Trade Details	48
12.1	<i>Overview</i>	48
12.2	<i>OCM/OTC Trade Details Screen</i>	48
13	EU Nominations	49
13.1	<i>Overview</i>	49
13.2	<i>EU Nominations Screen</i>	49
14	Allocation Details by ASEP/Meter Type	51
14.1	<i>Overview</i>	51
14.2	<i>Allocation Details by ASEP/Meter Type Screen</i>	51
15	Allocation Details by LDZ/Meter Type	54
15.1	<i>Overview</i>	54
15.2	<i>Allocation Details by LDZ/Meter Type Screen</i>	54
16	Nominations	57
16.1	<i>Overview</i>	57
16.2	<i>Nominations Screen</i>	57
17	Renominations	58
17.1	<i>Overview</i>	58
17.2	<i>Renominations Screen</i>	58
18	Meter ID Look Up	60
18.1	<i>Meter ID Look Up Screen behaviour</i>	60
18.2	<i>List of Screens for Meter ID Look Up behaviour</i>	64
19	Gemini Home	65
19.1	<i>Overview</i>	65
19.2	<i>Gemini Home Screen</i>	65
20	Business Associate Balance	68
20.1	<i>Overview</i>	68
20.2	<i>Business Associate Balance Screen</i>	68
21	BA Total Energy Forecast	71
21.1	<i>Overview</i>	71
21.2	<i>BA Total Energy Forecast Screen</i>	71
22	LDZ to Meter Relationships	74

22.1	Overview.....	74
22.2	LDZ to Meter Relationships Screen.....	74
23	View Terminal List	75
23.1	Overview.....	75
23.2	View Terminal List Screen.....	75
24	View Zone List	76
24.1	Overview.....	76
24.2	View Zone List Screen.....	76
25	Activities.....	77
25.1	Overview.....	77
25.2	Trade Details Screen.....	77
26	Shipper Forecast UIG Report.....	78
26.1	Overview.....	78
26.2	Shipper Forecast UIG Report Screen.....	78
27	Live Capacity vs Nominations Report.....	79
27.1	Overview.....	79
27.2	Live Capacity vs Nominations Report Screen.....	79
28	Glossary of Terms	80

1 Introduction

The Gemini IT system underpins the commercial Gas Transmission regime and accounts for all capacity and energy transactions. It is owned by National Grid (NG) with technical support provided by Xoserve under the Data Services Contract.

National Grid have a commitment to customers and Ofgem to maintain compliance with the Uniform Network Code (UNC) and ensure that Gemini meets the needs of its users. Gemini Re-Platforming addressed the ageing hardware and ensured continuing support for software versions. Gemini System Enhancements along with the long-term roadmap is about adapting/improving Gemini based on the needs of a changing industry to meet customer expectations.

This document is the External Screens Pack which describes new or modified screen functionality being delivered as part of the Gemini System Enhancements Project.

2 Entitlements

2.1 Overview

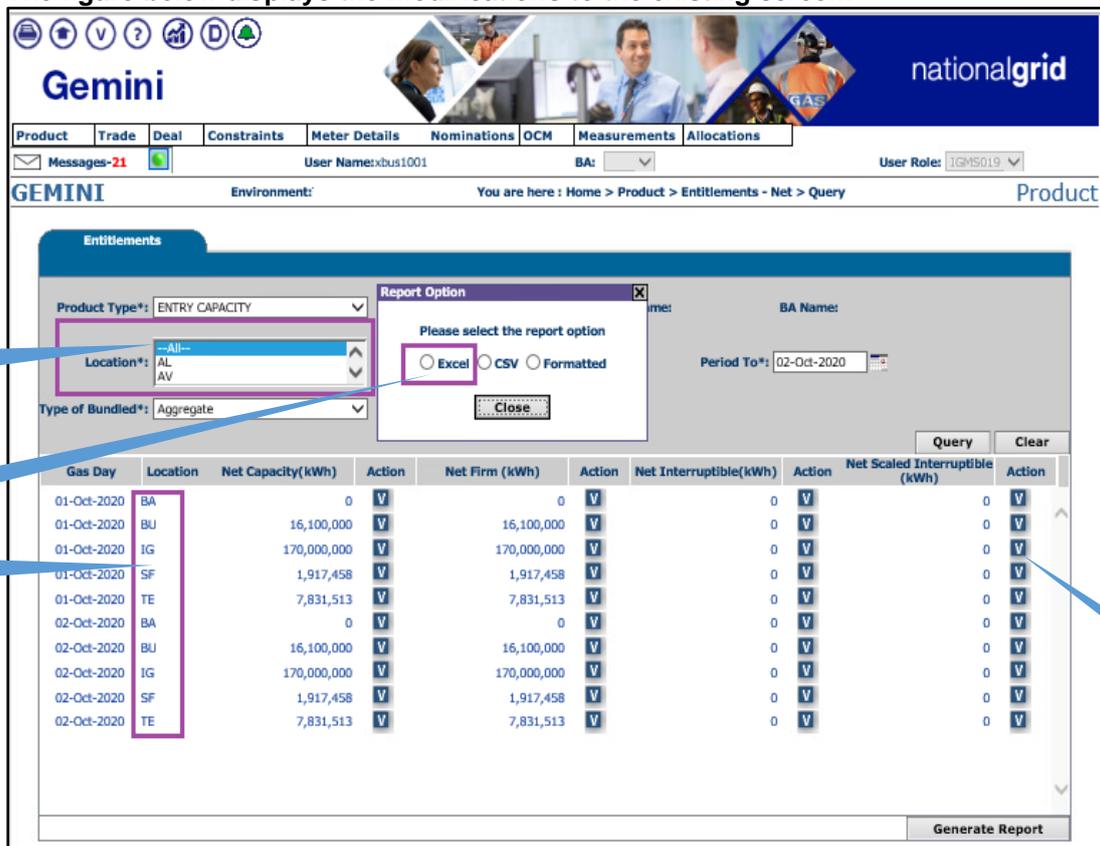
The Entitlements-Net report displays the Entitlements at each Location (IP & GB) for the logged in User. This screen will be modified in the following ways:

- ✓ Provision of 'ALL' option and multiple select in Location field.
- ✓ Provision of new column 'Location' in display criteria.
- ✓ Provision of Excel report option on click of Generate report button.
- ✓ Provision of displaying only valid Zero Entitlement.

- System: **Gemini**
- Screen Path: **Home > Product > Entitlements-Net**

2.2 Entitlements Screen

The figure below displays the modifications to the existing screen:



The table below describes the modifications that will be made to this screen:

1	Users can query Entitlement values for multiple locations at a time along with 'ALL' option.
2	Users can view Multiple Locations' data in the report as well.
3	A new column 'Location' will be added to the query output.
4	Users can Generate Report in Excel format along with CSV and Formatted (PDF) based upon the option selected.

5	<p>Users can view only valid zero entitlements. Invalid zero entitlement will not be displayed.</p> <p>Valid Entitlement – When user has non-zero entitlement or the sum of the aggregated value of Long Term, Short Term, Trade, Buy Back and Surrender is zero.</p> <p>Invalid Entitlement – When user had zero entitlement, without having any capacity and all the aggregated columns are having zero value.</p>
---	--

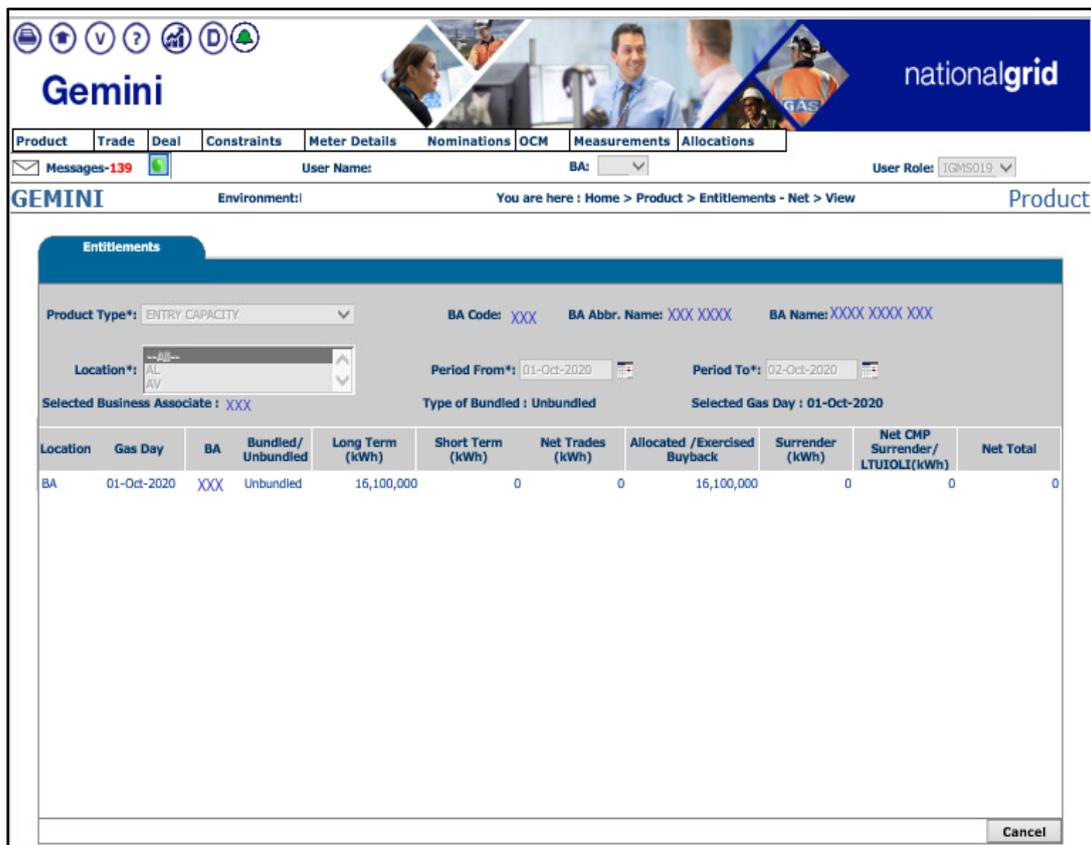
The figure below displays a sample formatted report, with the new Location column

Entitlements							27-Aug-2021 07:38:13	
Product Type: ENTRY CAPACITY			Aggregate: No					
Type Of Bundled: Aggregate			Period From: 01-Oct-2020		Period To: 02-Oct-2020			
Gas Day	Location	Parent BA BA	Net Capacity (kWh)	Net Firm (kWh)	Net Interruptible (kWh)	Net Scaled Interruptible		
01-Oct-2020	BACTON	XXX	0	0	0	0		
01-Oct-2020	Bacton UKCS	XXX	16,100,000	16,100,000	0	0		
01-Oct-2020	ISLE OF GRAIN LNG	XXX	170,000,000	170,000,000	0	0		
01-Oct-2020	ST FERGUS	XXX	1,917,458	1,917,458	0	0		
01-Oct-2020	THRESSIDE	XXX	7,831,513	7,831,513	0	0		
02-Oct-2020	BACTON	XXX	0	0	0	0		
02-Oct-2020	Bacton UKCS	XXX	16,100,000	16,100,000	0	0		
02-Oct-2020	ISLE OF GRAIN LNG	XXX	170,000,000	170,000,000	0	0		
02-Oct-2020	ST FERGUS	XXX	1,917,458	1,917,458	0	0		
02-Oct-2020	THRESSIDE	XXX	7,831,513	7,831,513	0	0		

The figure below displays a sample Excel report with the new Location column

Product Type	Type Of Bundled	Location	Gas Day	Parent BA	BA	Bundled/Unbundled	Net Capacity(kWh)	Net Firm(kWh)	Net Interruptible(kWh)	Net Scaled Interruptible(kWh)
ENTRY CAPACITY	Unbundled	ALDBROUGH STORAGE	1-Oct-20		XXX	Unbundled	0	0	0	0
ENTRY CAPACITY	Unbundled	AVONMOUTH LNG	1-Oct-20		XXX	Unbundled	0	0	0	0
ENTRY CAPACITY	Unbundled	ALDBROUGH STORAGE	2-Oct-20		XXX	Unbundled	0	0	0	0
ENTRY CAPACITY	Unbundled	AVONMOUTH LNG	2-Oct-20		XXX	Unbundled	0	0	0	0

The figure below shows the screen on click of the  button on individual rows of Net-Entitlements screen



Location	Gas Day	BA	Bundled/Unbundled	Long Term (kWh)	Short Term (kWh)	Net Trades (kWh)	Allocated /Exercised Buyback	Surrender (kWh)	Net CMP Surrender/ LTUIOLI(kWh)	Net Total
BA	01-Oct-2020	XXX	Unbundled	16,100,000	0	0	16,100,000	0	0	0

Note: The above screen shows that zero value appearing in the Net-Entitlements screen is valid as the Long Term entitlement and Surrender values are non-zero.

3 Gemini Dashboard Home Screen

The Dashboard will give the user the ability to compare various types of data present in Gemini and Gemini Exit. The icon for the Dashboard will be placed on the Gemini and Gemini Exit Home screen. On click of the icon, the user will be directed to the Dashboard Home Screen. The Dashboard Home Screen will display charts on the screen for the current Gas day. From the Dashboard Home Screen, the user can also navigate to the Dashboard Balancing Screen (see Section 4) and the Dashboard Capacity Screen (see Section 5) and Dashboard Invoicing Screen (See Section 6).

The Dashboard Home screen will have below dashboard:

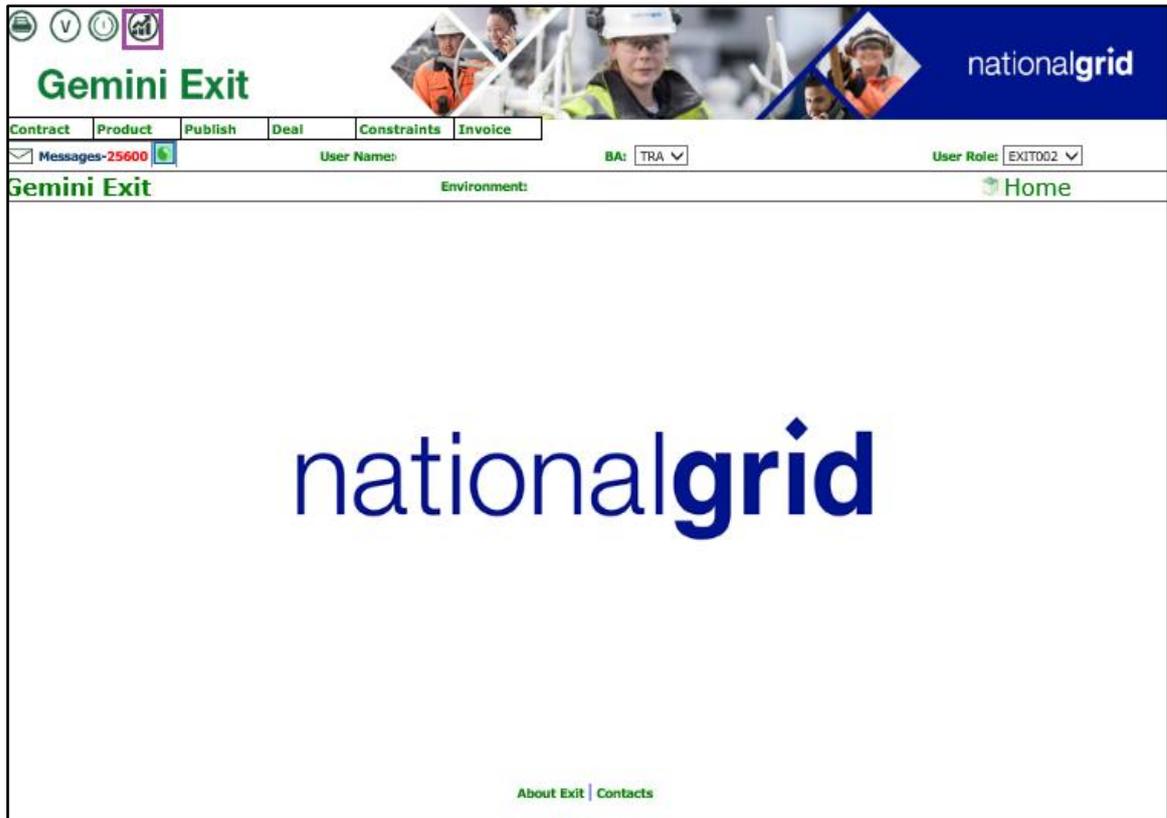
- Entitlement Vs Nomination
- BA Hourly Scheduled Balance
- Hourly LinePack
- SAP

.. The details of the charts shown on each are detailed below.

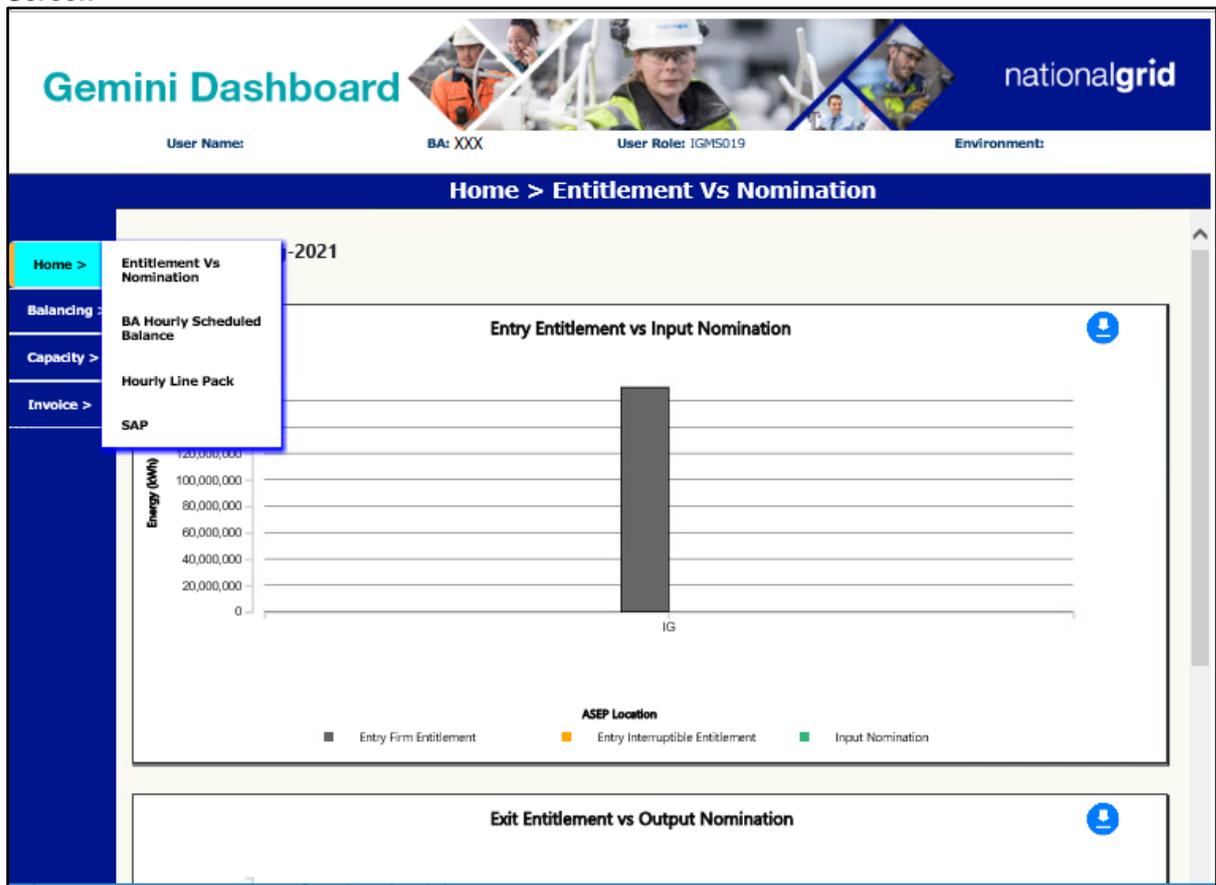
The figure below indicates the new Dashboard icon on the Gemini Home Screen



The figure below indicates the new Dashboard icon on the Gemini Exit Home Screen



The figure below indicates the new Dashboard Home Screen on the Gemini Dashboard Screen



3.1 Gemini Dashboard Home: Entitlement Vs Nomination

Gemini Dashboard Home: Entitlement Vs Nomination displays the following charts:

- Entry Entitlement vs Input Nomination
- Exit Entitlement vs Output Nomination

The table below contains details of the data displayed in the charts

Chart Name	X-axis details	Y-axis details	Data displayed
Entry Entitlement vs Input Nomination	ASEP Location	Energy (kWh)	Location Input Nomination
Exit Entitlement vs Output Nomination	NTS Exit Point	Energy (kWh)	NTS Exit Point Output Nomination

The figure below displays the Entitlement Vs Nomination tab



3.2 Gemini Dashboard Home: BA Hourly Scheduled Balance

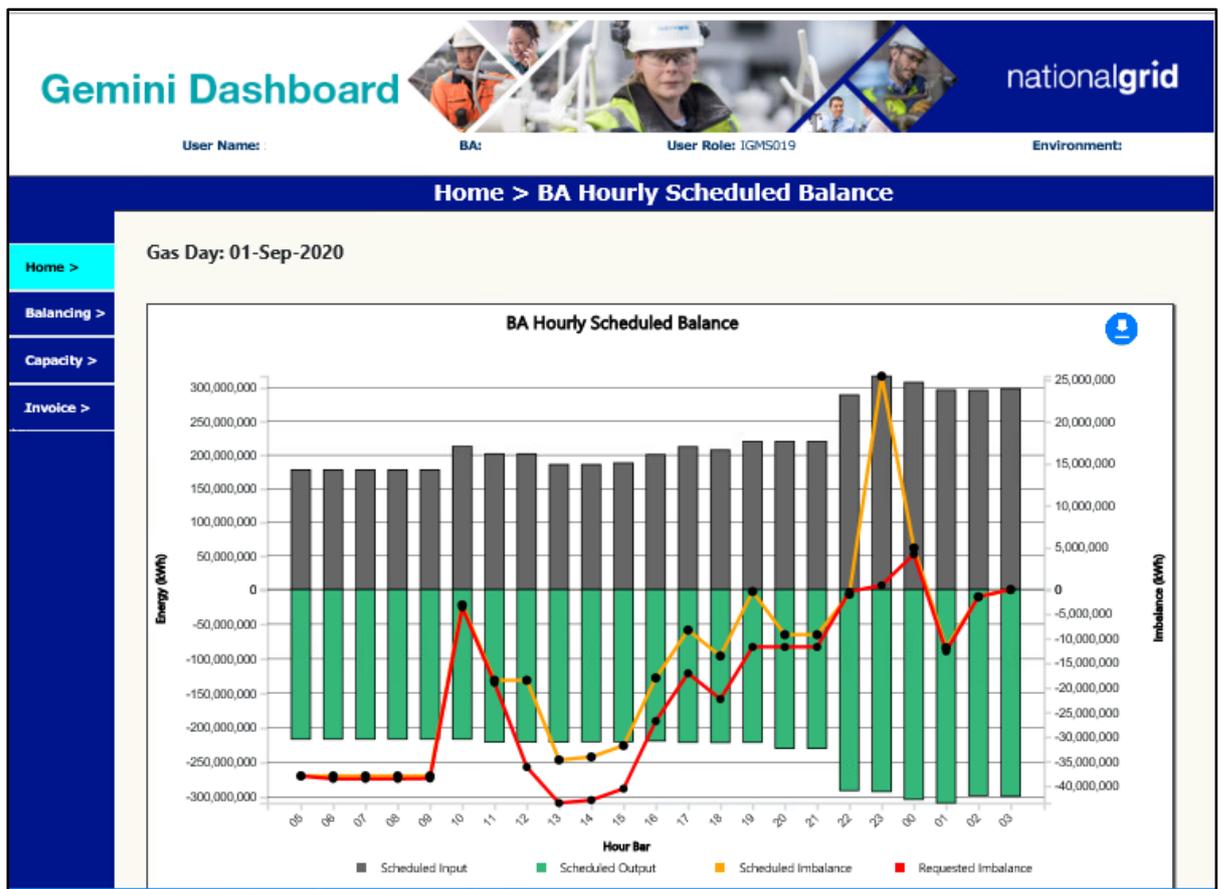
Gemini Dashboard Home: BA Hourly Scheduled Balance displays the following charts

- BA Hourly Scheduled Balance

The table below contains details of the data displayed in the charts

Chart Name	X-axis details	Y-axis details	Data Displayed
BA Hourly Scheduled Balance	Hour Bar	Left axis: Energy (kWh) Right axis: Imbalance (kWh)	Scheduled Input Nomination (column) Scheduled Output Nomination (column) Scheduled Imbalance (line) Requested Imbalance

The figure below displays the BA Hourly Scheduled Balance Dashboard



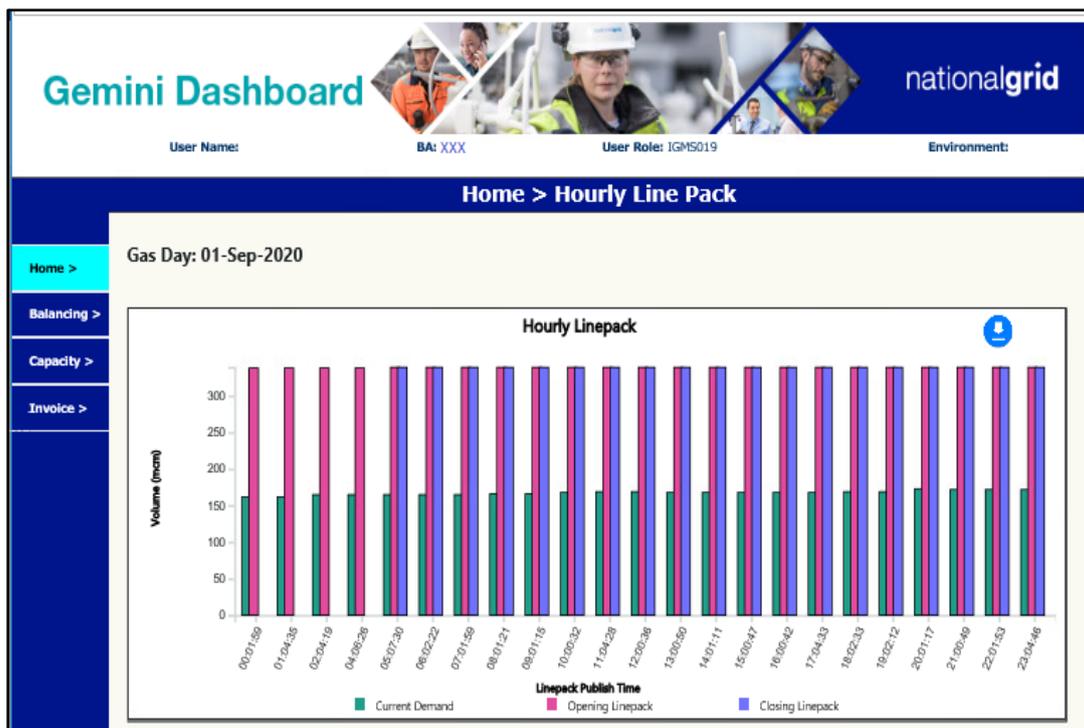
3.3 Gemini Dashboard Home: Hourly Linepack

Gemini Dashboard Home: Hourly Linepack

The table below contains details of the data displayed in the charts

Chart Name	X-axis details	Y-axis details	Data displayed
Hourly Linepack	Calendar Day Time	Left axis: Linepack Volume (mcm) Right axis: Price (p/kWh)	Columns: <ul style="list-style-type: none"> • Current Demand • Opening Linepack • Closing Linepack • Target Linepack Lines: <ul style="list-style-type: none"> • SAP (System Average Price) • SMP BUY (System Marginal Price) • SMP SELL (System Marginal Price)

The figure below displays the Hourly Line Pack tab



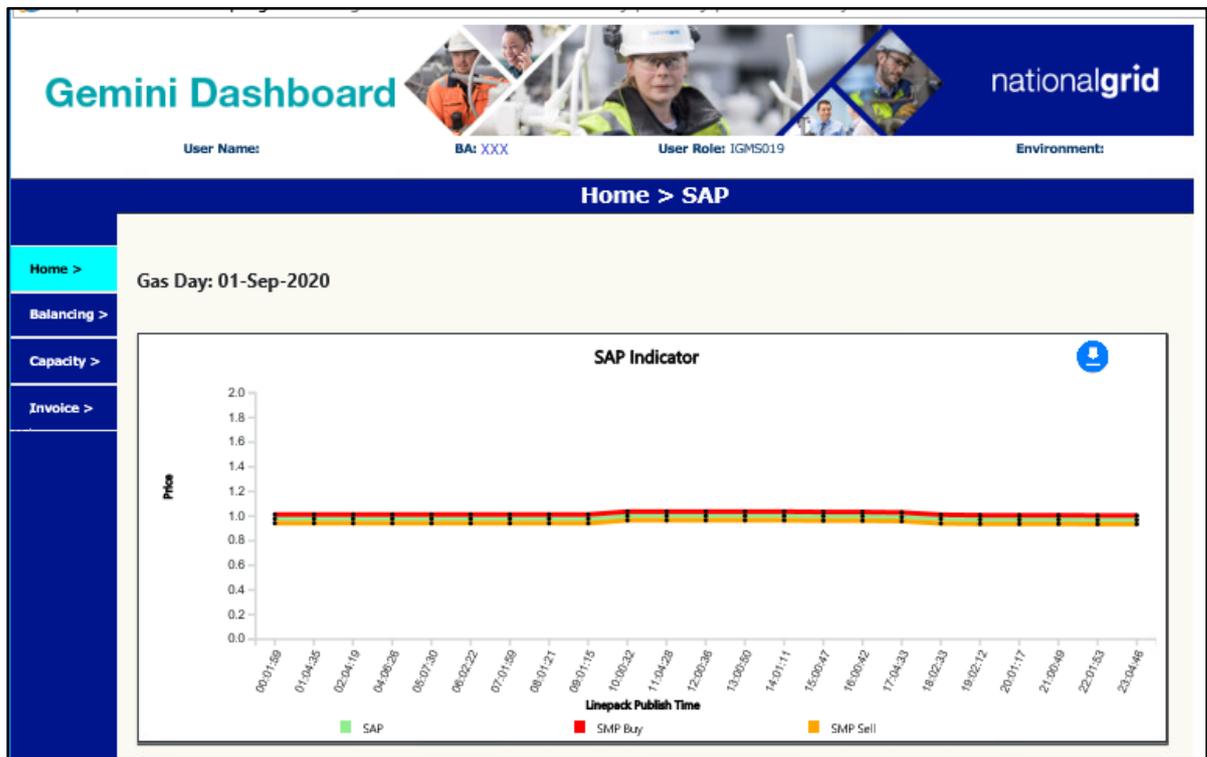
3.4 Gemini Dashboard Home: SAP

Gemini Dashboard Home: SAP

The table below contains details of the data displayed in the charts

Chart Name	X-axis details	Y-axis details	Data displayed
SAP	Calendar Day time	SAP and SMP values	<ul style="list-style-type: none"> • SAP • SMP Buy • SMP Sell

The figure below displays the SAP tab



4 Gemini Dashboard Balancing Screen

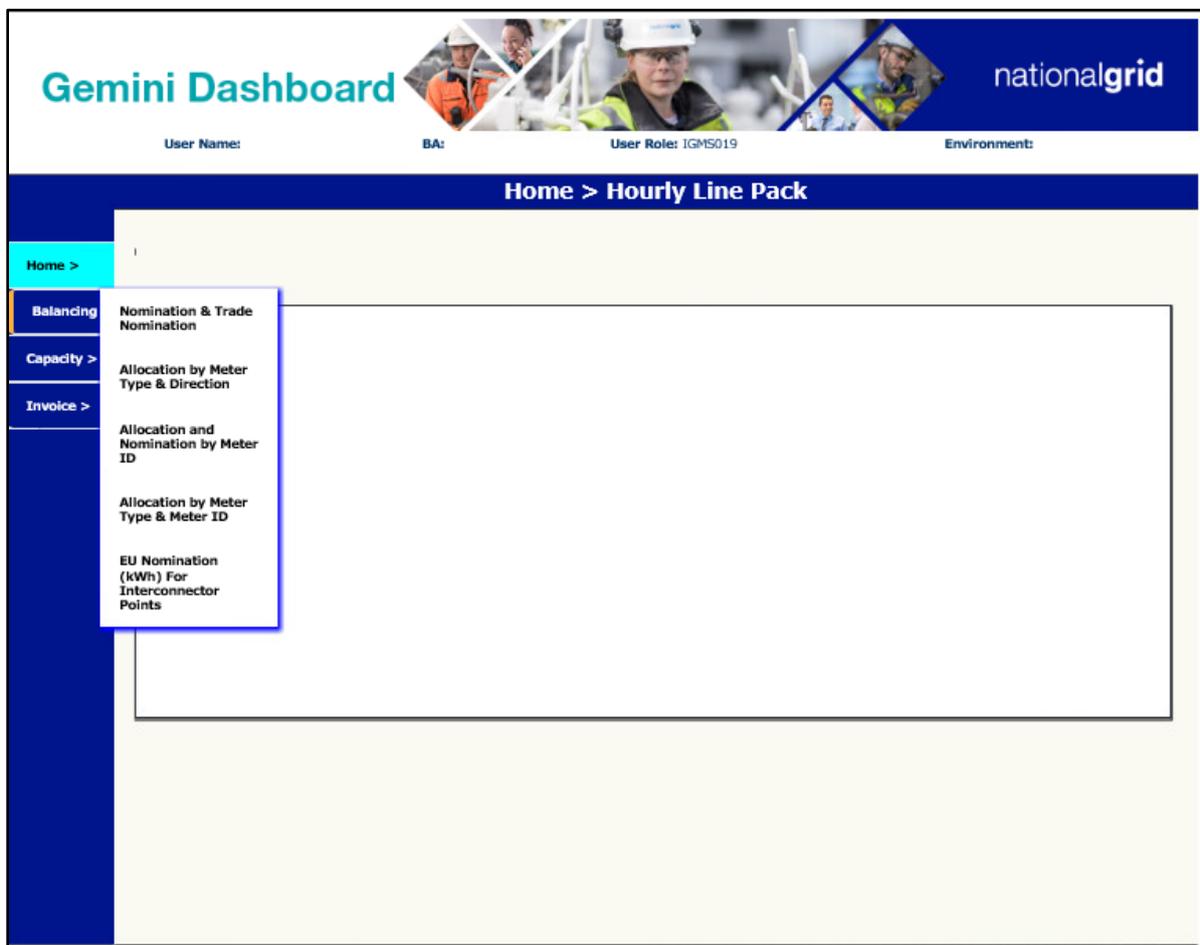
From the Dashboard Home Screen, the user can access the Dashboard Balancing Screen using the navigation menu on the left. This screen will give facility to user to select a date range using the slider and view charts for the selected range.

The Dashboard Balancing Screen will have below dashboard:

- Nomination & Trade Nomination
- Allocation by Meter Type & Direction
- Allocation and Nomination By Meter ID
- Allocation By Meter Type & Meter ID
- EU Nomination (kWh) for Interconnector Points

The details of the charts shown on each are detailed below.

The figure below indicates the new Dashboard Balancing Screen on the Gemini Dashboard Screen



4.1 Gemini Dashboard Balancing: Nomination & Trade Nomination

Gemini Dashboard Balancing: Nomination & Trade Nomination displays

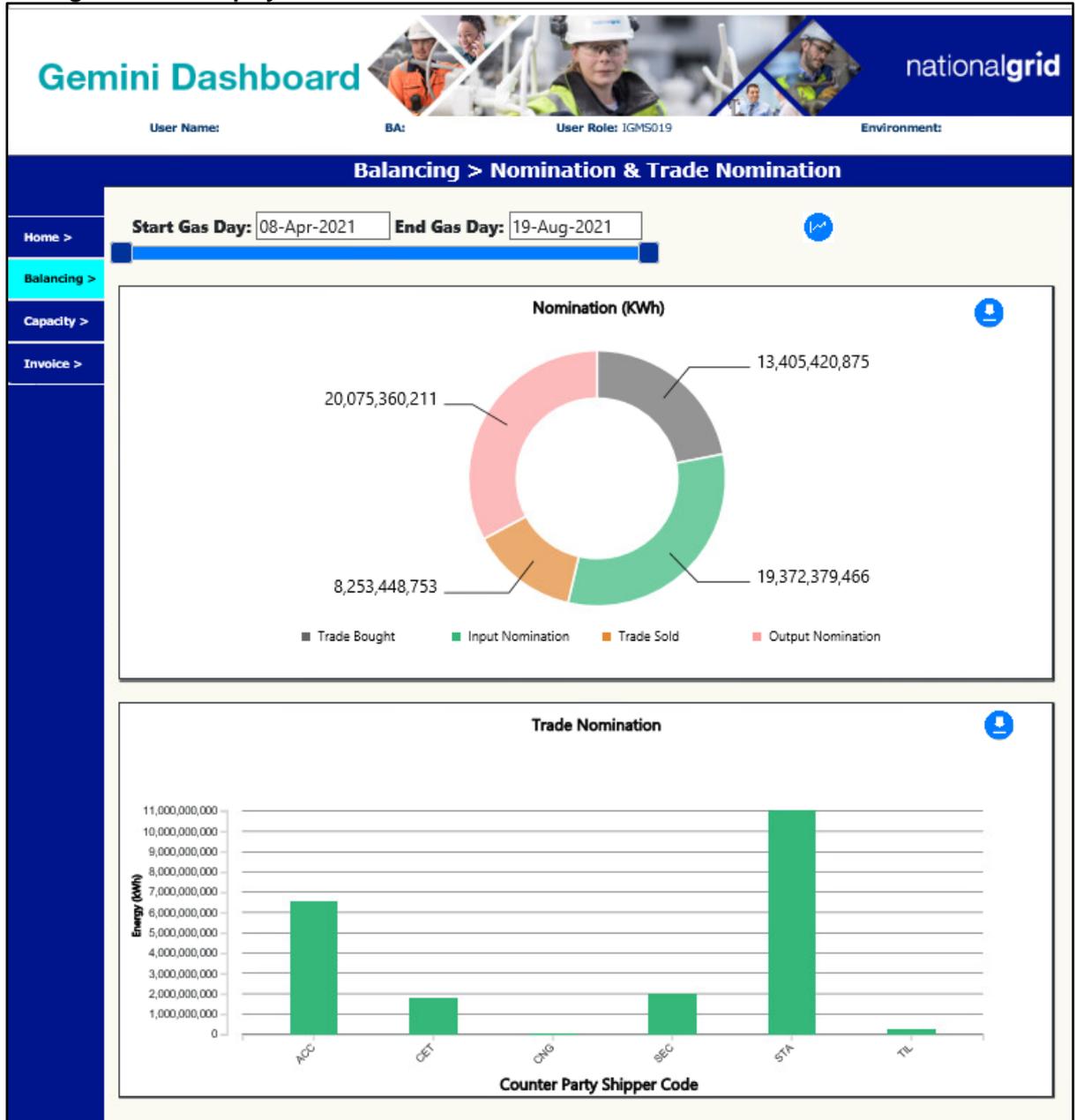
- Nomination
- Trade Nomination

The tables below contain details of the data displayed in the charts

Chart Name	Chart Type	Details	Data displayed
Nomination (kWh)	Doughnut	Nomination (kWh)	Trade Sold Input Nomination Output Nomination Trade Bought

Chart Name	Chart Type	X-axis details	Y-axis details
Trade Nomination	Bar	Counter Party Shipper Code	Energy (kWh)

The figure below displays the Nomination & Trade Nomination dashboard



4.2 Gemini Dashboard Balancing: Allocation by Meter Type & Direction

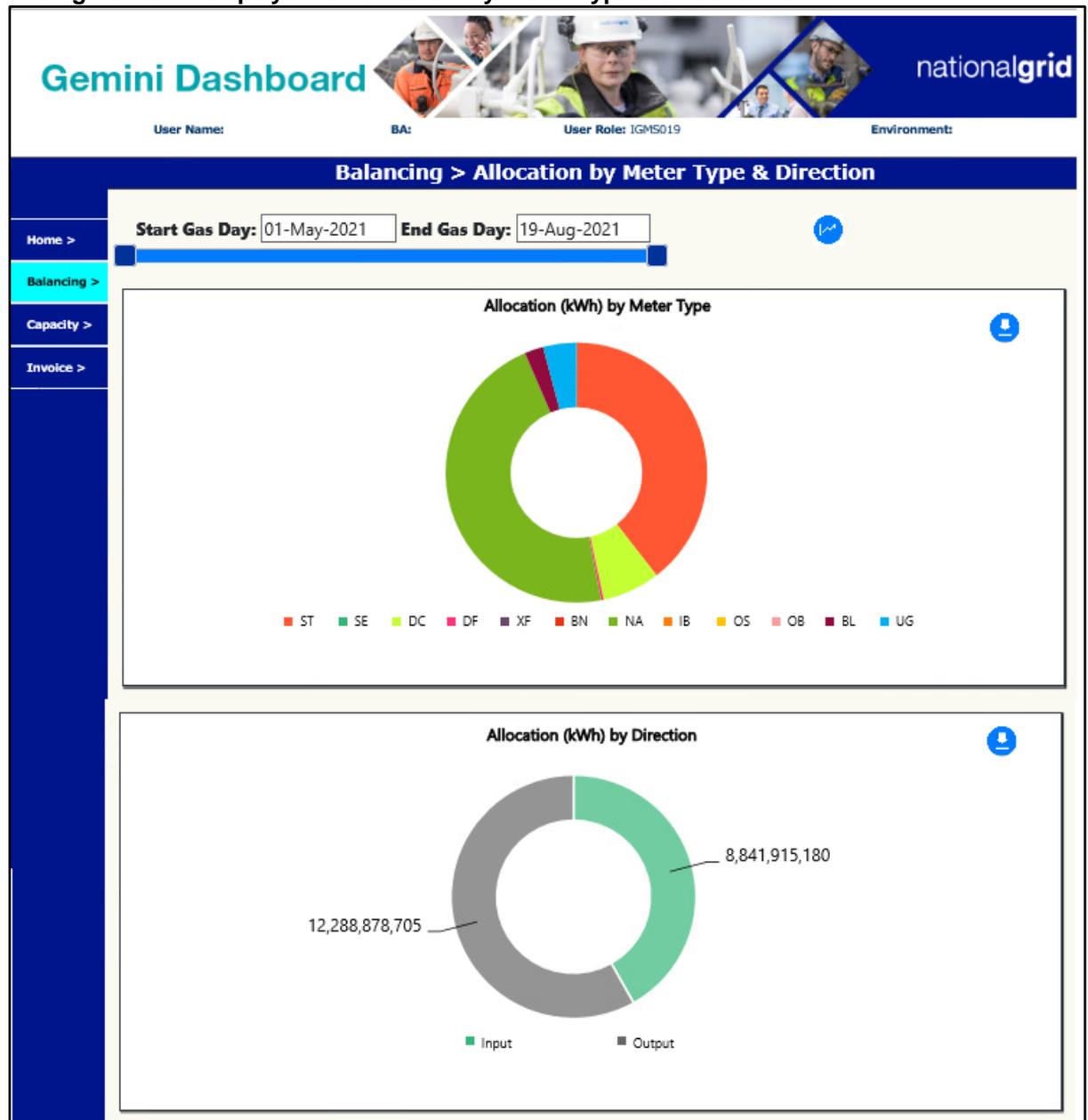
Gemini Dashboard Balancing: Allocation by Meter Type & Direction dashboard displays

- Allocation by Meter Type
- Allocation by Flow Direction

The table below contains details of the data displayed in the charts

Chart Name	Chart Type	Details	Data Displayed
Allocation (kWh) by Meter Type	Doughnut	Allocation (kWh)	Meter type Allocation
Allocation (kWh) by Flow Direction	Doughnut	Allocation (kWh)	Flow Direction (Input/Output) Allocation

The figure below displays the Allocation by Meter Type & Direction tab

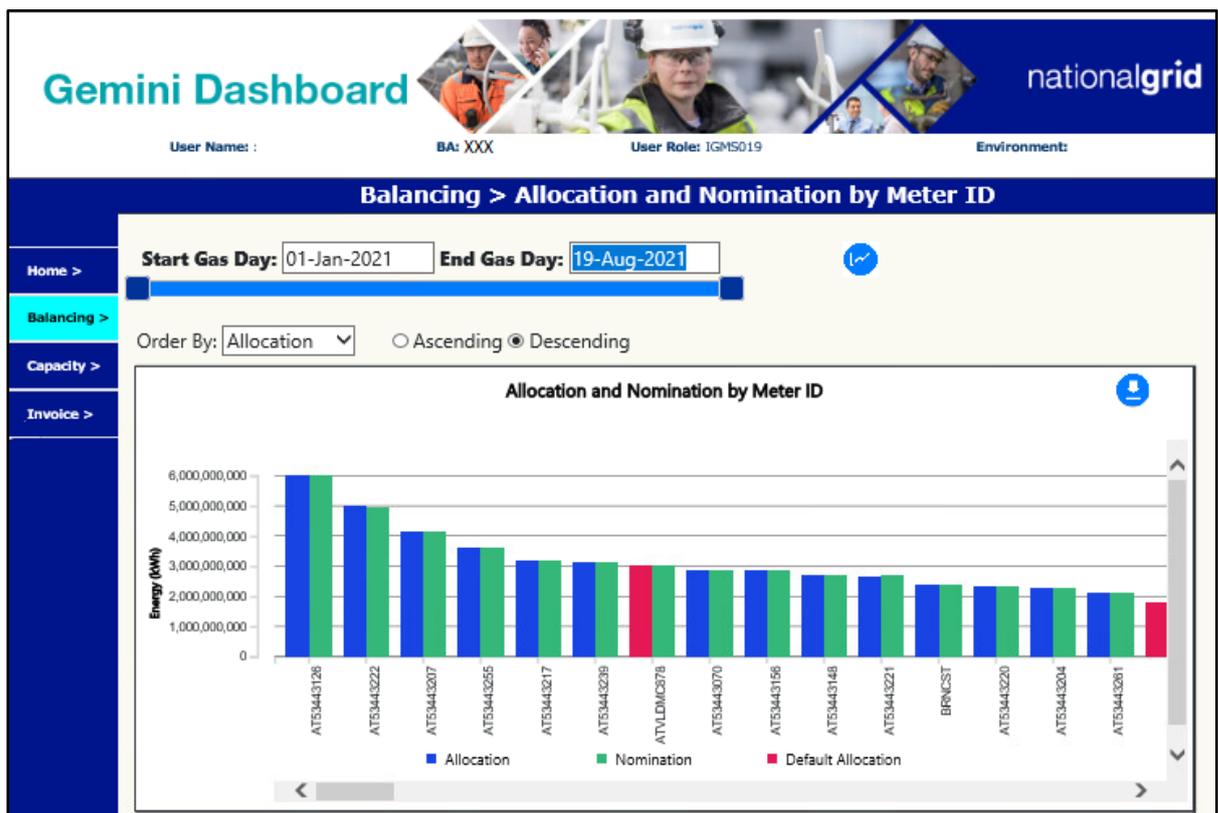


4.3 Gemini Dashboard Balancing: Allocation and Nomination Details by Meter ID Screen

The table below contains details of the data displayed in the charts

Chart Name	X-axis details	Y-axis details	Data Displayed
Allocation and Nomination Details by Meter ID	Meter ID	Energy (kWh)	Allocation Nomination Default Allocation

The figure below displays the Allocation and Nomination By Meter ID Chart.



4.4 Gemini Dashboard Balancing: Allocation by Meter Type & Meter ID Screen

Gemini Dashboard Balancing: Allocation By Meter Type & Meter ID displays

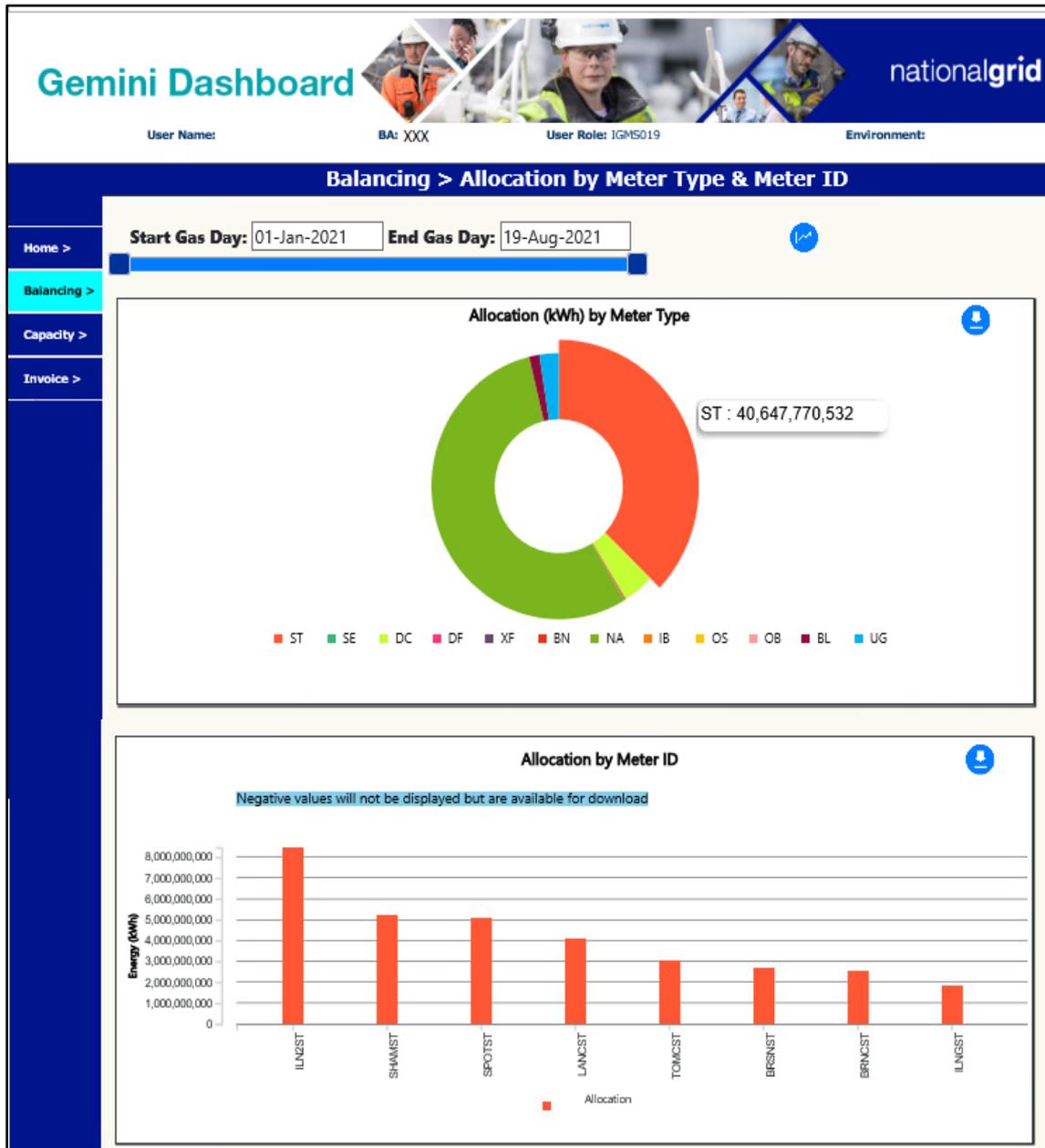
- Allocation by Meter Type
- Allocation by Meter ID

The table below contains details of the data displayed in the charts

Chart Name	Chart Type	Details	Data Displayed
Allocation (kWh) by Meter Type	Doughnut	Allocation (kWh)	Allocation by Meter Type

Chart Name	Chart Type	X-axis details	Y-axis details
Allocation (kWh) by Meter ID	Bar	Meter Id	Energy (kWh)

The figure below displays the Allocation By Meter Type & Meter ID Chart



4.5 Gemini Dashboard Balancing: EU Nomination (kWh) for interconnector Points Screen

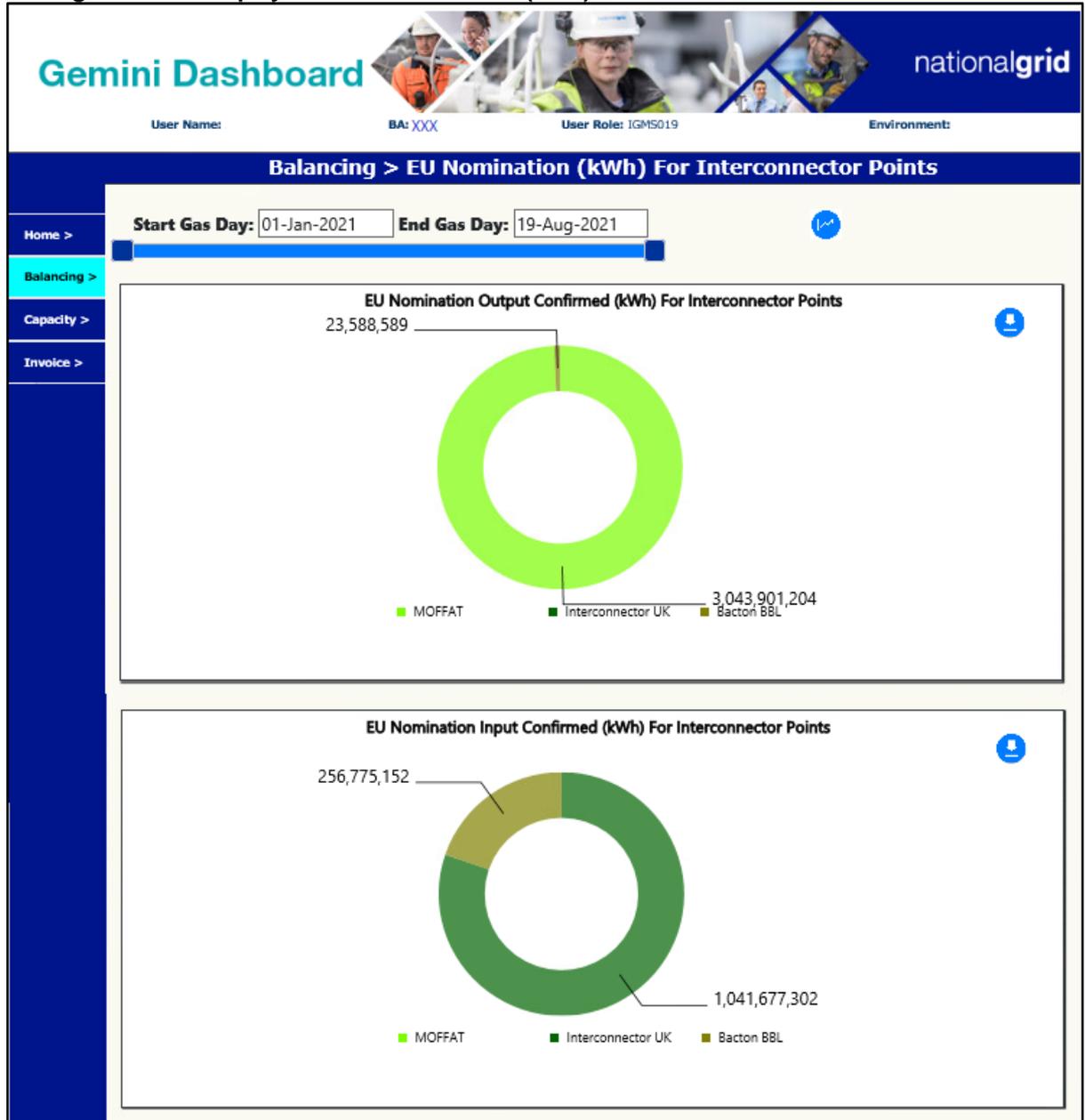
Gemini Dashboard Balancing: EU Nomination (kWh) for Interconnector Points displays

- EU Nomination (kWh) for Interconnector Points

The table below contains details of the data displayed in the charts

Chart Name	Chart Type	Details	Data Displayed
EU Nomination (kWh) For interconnector Points	Doughnut	Nomination (kWh)	MOFFAT Interconnector UK Bacton BBL
EU Nomination (kWh) For interconnector Points	Doughnut	Nomination (kWh)	MOFFAT Interconnector UK Bacton BBL

The figure below displays the EU Nomination (kWh) for Interconnector Points chart



5 Gemini Dashboard Capacity Screen

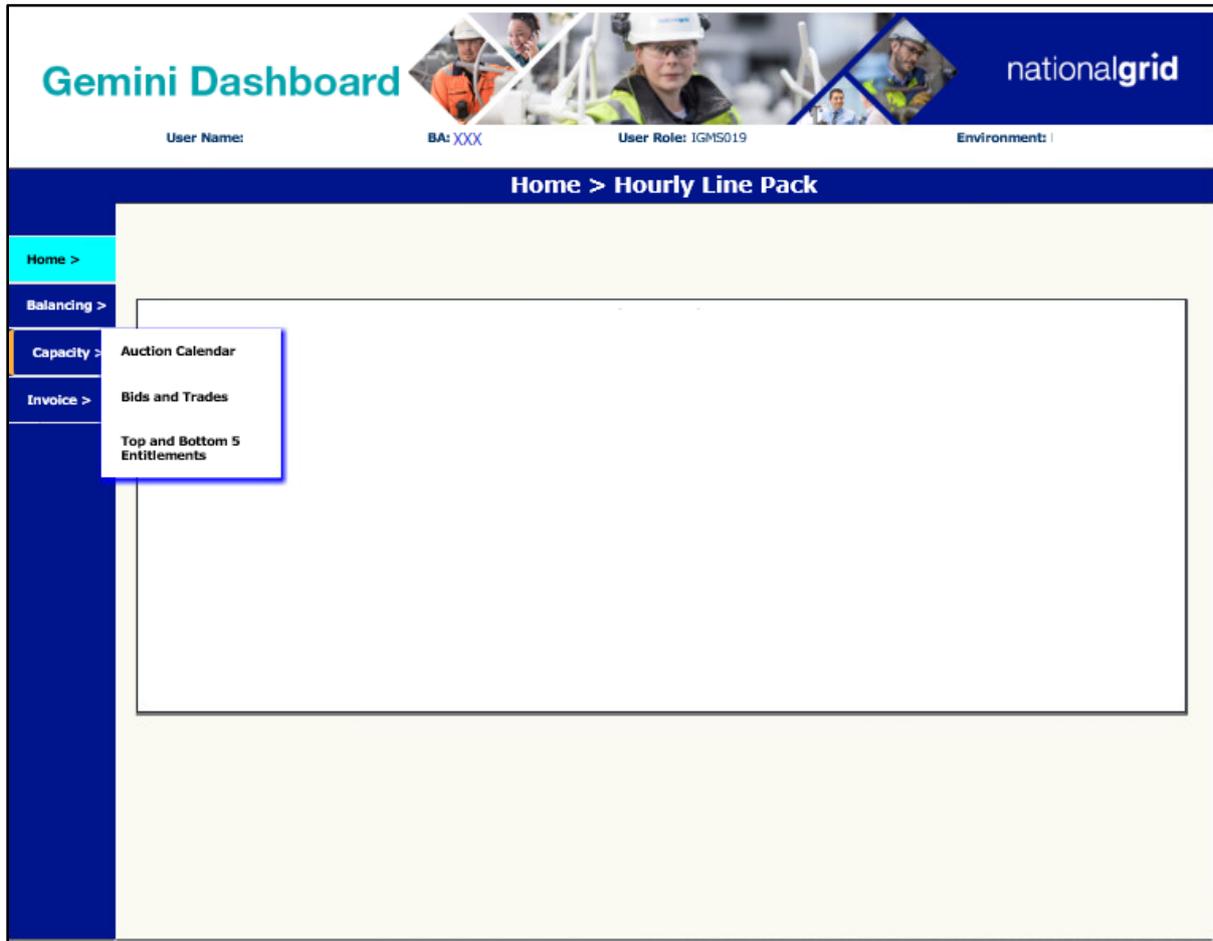
From the Dashboard Home Screen, the user can access the Dashboard Capacity Screen using the navigation menu on the left.

The Dashboard Capacity screen Will have the below Dashboards:

- Auction Calendar
- Bids and Trades
- Top and Bottom 5 Entitlements

The Dashboard Capacity Bids and Trades Dashboard displays charts on the screen for the current Gas day. The details of the charts shown on each are detailed below

The figure below indicates the new Dashboard Capacity Screen on the Gemini Dashboard Screen



5.1 Gemini Dashboard Capacity: Auction Calendar Dashboard

Gemini Dashboard Capacity: Auction Calendar displays

- Live and Upcoming Auctions Dashboard
- Invoicing and Billing Calendar

The table below contains details of the data displayed in the charts

Chart Name	Tabs available on Dashboard	Data Displayed
Auction calendar Dashboard	Within day Day-Ahead Monthly Quarterly Yearly	Capacity / Auction Type Status Process Time Bid window Publish window

The figure below displays the Auction Calendar Dashboard

Gemini Dashboard nationalgrid

User Name: BA: User Role: Environment:

Capacity > Auction Calendar

Gas Day: 19-Aug-2021

Auction Calendar

Within-Day Day-Ahead Monthly Quarterly Yearly

Capacity/Auction Type	Status	Process Time	Bid Window	Publish Window
WDDSEC	Live	D-0 05:00 to D-0 02:00	D-1 02:00 to D-0 01:00	D-1 06:00
IPWDDSEC	Live	D-1 01:30 to D-0 01:00	N.A	D-1 16:45
WDDNEX	Live	D-0 07:45 to D-0 02:00	D-1 14:00 to D-0 00:00	D-1 06:00
IPWDDNEX	Live	D-1 1:30 to D-0 1:0	N.A	D-1 16:50

Gemini Dashboard

User Name:
BA: XXX
User Role: IGM5019
Environment: |

Capacity > Auction Calendar

Gas Day: 19-Aug-2021

Home >
Balancing >
Capacity >
Invoice >

Auction Calendar ⬇

Within-Day
Day-Ahead
Monthly
Quarterly
Yearly

Capacity/ Auction Type	Status	Process Time	Bid Window	Publish Window
DISEC	Live	D-1 13:01 to D-1 15:00	D-7 05:00 to D-1 13:00	D-8 06:00
DBSEC	Live	D-1 13:00 to D-0 02:00	D-7 05:00 to D-0 01:00	D-8 06:00
DADSEC	Live	D-1 14:00 to D-1 02:00	D-7 06:00 to D-1 01:00	D-8 06:00
IPDADSEC	Live	D-1 16:00 to D-1 16:20	N.A	D-1 11:25
IPDISEC	Upcoming	D-1 17:00 to D-1 17:20	N.A	D-1 12:25
DADNEX	Upcoming	D-1 16:40 to D-1 17:10	D-1 16:20 to D-1 16:39	D-1 16:19
DBNEX	Live	D-1 15:00 to D-0 03:00	D-7 06:00 to D-0 02:00	D-8 06:00
DADNEX	Live	D-1 15:00 to D-1 16:00	D-7 05:00 to D-1 14:00	D-8 06:00
DONEX	Live	D-1 15:00 to D-1 16:00	D-7 05:00 to D-1 14:00	D-8 06:00
IPDONEX	Upcoming	D-1 17:00 to D-1 17:20	N.A	D-1 14:25
IPDADNEX	Live	D-1 16:00 to D-1 16:20	N.A	D-1 11:20

Gemini Dashboard

User Name:
BA: XXX
User Role: IGM5019
Environment:

Capacity > Auction Calendar

Gas Day: 19-Aug-2021

Home >
Balancing >
Capacity >
Invoice >

Auction Calendar ⬇

Within-Day
Day-Ahead
Monthly
Quarterly
Yearly

Capacity/ Auction Type	Status	Process Time	Bid Window	Publish Window
IPRMSEC	Closed	19-Jul-2021 08:00 to 30-Jul-2021 16:00	N.A	08-Jul-2021 11:40 to 31-Dec-9999 00:00
RMTNTSEC	Closed	19-Jul-2021 17:05 to 27-Jul-2021 16:00	19-Jul-2021 08:00 to 19-Jul-2021 17:00	07-Jul-2021 10:21 to 19-Jul-2021 07:59
IPRMNEX	Closed	19-Jul-2021 12:00 to 30-Jul-2021 12:00	N.A	08-Jul-2021 11:11 to 31-Dec-9999 00:00

Gemini Dashboard

User Name: BA: XXX
User Role: IGMS019
Environment:

Capacity > Auction Calendar

Gas Day: 19-Aug-2021

Auction Calendar				
Within-Day	Day-Ahead	Monthly	Quarterly	Yearly
Capacity/ Auction Type	Status	Process Time	Bid Window	Publish Window
QSEC	Upcoming	12-Apr-2023 08:00 to 14-Apr-2023 18:00	05-Apr-2023 08:00:00 to 07-Apr-2023 17:00:00	13-Jul-2021 15:08 to 05-Apr-2023 07:59
IPAQSEC	Closed	03-May-2021 12:00 to 28-May-2021 16:00	N.A	15-Apr-2021 11:27 to 03-May-2021 11:00
IPAQNEX	Closed	03-May-2021 12:00 to 28-May-2021 16:00	N.A	15-Apr-2021 11:30 to 06-May-2021 09:01

Gemini Dashboard

User Name: BA: XXX
User Role: IGMS019
Environment:

Capacity > Auction Calendar

Auction Calendar				
Within-Day	Day-Ahead	Monthly	Quarterly	Yearly
Capacity/ Auction Type	Status	Process Time	Bid Window	Publish Window
IPAYSEC	Closed	06-Jul-2021 12:00 to 13-Jul-2021 12:00	N.A	N.A
MSEC	Closed	20-Jul-2021 17:05:00 to 20-Jul-2021 19:20:00	20-Jul-2021 09:00 to 20-Jul-2021 17:00	20-Jul-2021 06:30
MSEC	Closed	22-Jul-2021 17:05:00 to 22-Jul-2021 19:20:00	22-Jul-2021 09:00 to 22-Jul-2021 17:00	22-Jul-2021 06:30
EAFLEC	Live	01-Aug-2021 08:00 to 30-Sep-2021 17:00	Increase 01-Jul-2021 08:00 to 31-Jul-2021 17:00	N.A
IPAYNEX	Closed	06-Jul-2021 12:00 to 13-Jul-2021 12:00	N.A	N.A
ADEFLEC	Closed	30-Jan-2018 08:00 to 28-Feb-2018 17:00	29-Jan-2018 08:00 to 29-Jan-2018 17:00	N.A
AIEFLEC	Closed	02-Oct-2020 08:00 to 30-Jun-2021 17:00	01-Oct-2020 08:00 to 30-Jun-2021 17:00	N.A
EAFLEC	Live	01-Aug-2021 08:00 to 30-Sep-2021 17:00	Decrease 01-Jul-2021 08:00 to 15-Jul-2021 17:00	N.A

5.2 Gemini Dashboard Capacity: Bids and Trades Screen

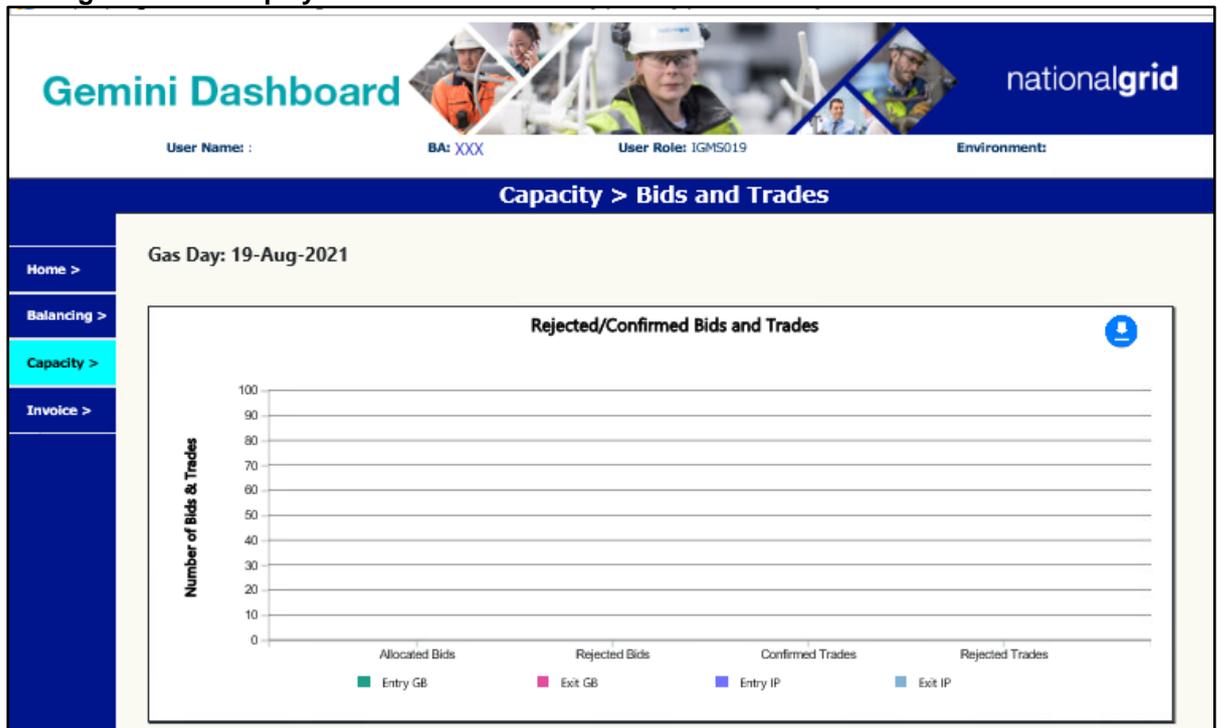
Gemini Dashboard Capacity: Bids and Trades displays

- Bids and Trades chart

The table below contains details of the data displayed in the charts

Chart Name	X-axis details	Y-axis details	Data Displayed
Live Bid vs Capacity Trade	Allocated Bids Rejected Bids Confirmed Trades Rejected Trades	Number of requests	Entry GB Exit GB Entry IP Exit IP

The figure below displays the Bids and Trades tab



5.3 Gemini Dashboard Capacity: Top and Bottom 5 Entitlements Screen

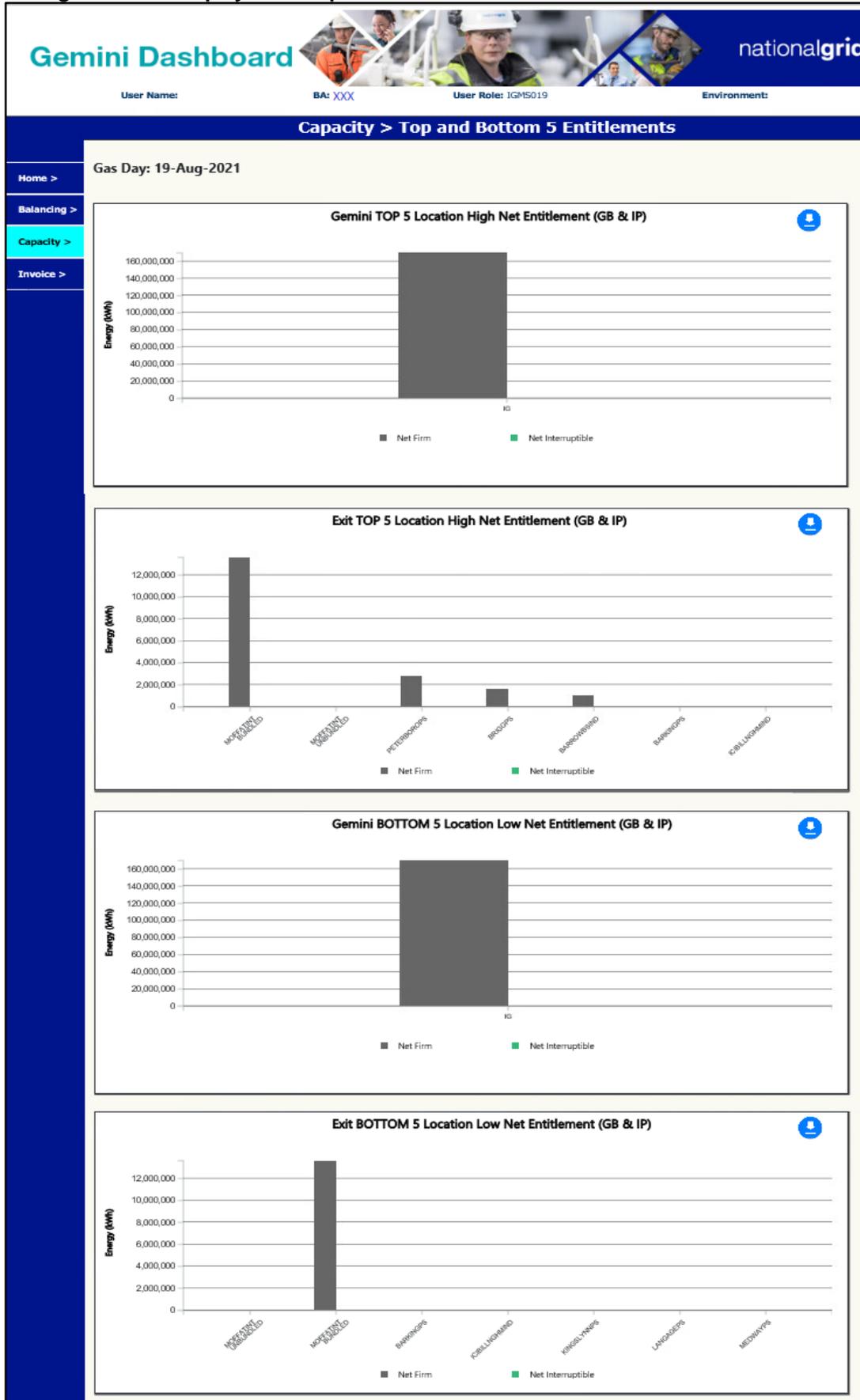
Gemini Dashboard Capacity: Top and Bottom 5 Entitlements displays

- Gemini Top 5 Locations High Net Entitlement
- Exit Top 5 Locations High Net Entitlement
- Gemini Bottom 5 Locations Low Net Entitlement
- Exit Bottom 5 Locations Low Net Entitlement

The table below contains details of the data displayed in the charts

Chart Name	X-axis details	Y-axis details	Data Displayed
Gemini Top 5 Locations High Net Entitlement	Bundled and Unbundled by Location	Energy (kWh)	Net Firm Net Interruptible
Exit Top 5 Locations High Net Entitlement	Bundled and Unbundled by Location	Energy (kWh)	Net Firm Net Interruptible
Gemini Bottom 5 Locations Low Net Entitlement	Bundled and Unbundled by Location	Energy (kWh)	Net Firm Net Interruptible
Exit Bottom 5 Locations Low Net Entitlement	Bundled and Unbundled by Location	Energy (kWh)	Net Firm Net Interruptible

The figure below displays the Top and Bottom 5 Entitlements tab



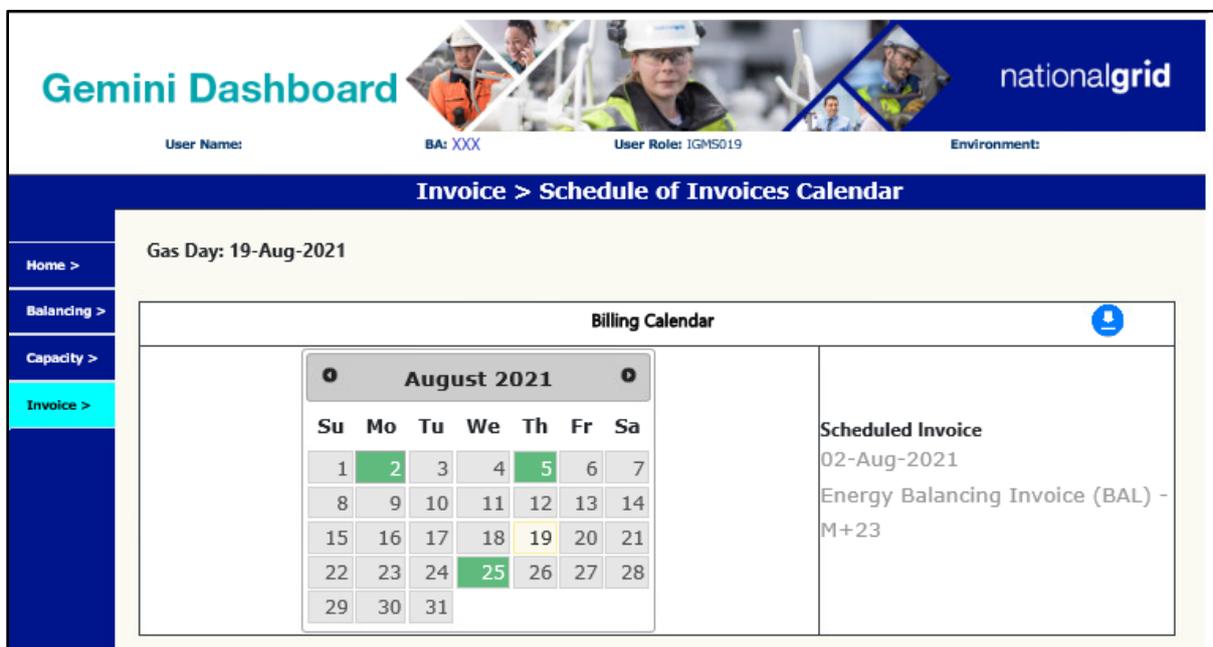
6 Gemini Dashboard Invoice Screen

6.1 Gemini Dashboard Capacity: Schedule Of Invoices Calendar Dashboard

The table below contains details of the data displayed in the charts

Chart Name	Chart Type	Action details
Schedule Of Invoices Calendar	Calendar	On click of highlighted date the scheduled invoice information will be displayed on the right-hand side of the widget.

The figure below displays the Schedule of Invoices Calendar Dashboard



7 Bid Information

7.1 Overview

The existing 'Bid Information' screen, details the status of the Bid and its information for all Auctions and Contracts. This screen will be modified in the following ways:

- ✓ Provision of Excel report option on click of 'Generate Report' button
- ✓ Provision of Multiple Location in Location field
- ✓ Renaming of 'Loc' column to 'Location' in the query output

- System: **Gemini**
- Screen Path: **Home > Deal > Bid Capture Reports > Bid Information**

7.2 Bid Information Screen

The figure below displays the elements of the screen that will be modified:

The screenshot shows the Gemini Bid Information screen. Callout 1 points to a 'Report Option' dialog box with radio buttons for 'Excel', 'CSV', and 'Formatted'. Callout 2 points to the 'Location' dropdown menu. Callout 3 points to the 'Method of Sale' dropdown menu. Callout 4 points to the 'Sub Transaction Period' column in the bid list table.

Location	Sub Transaction Period	BA	Bid Capacity (kWh)	Min Qty. (kWh)	Entitlement (kWh)	Bundled/Unbundled	Entitlement Price (p/kWh)	Flow Start Time	Status	Reason	Bid Price (p/kWh)	Bid ID	Action
BU	04-Dec-2017	XXX	22,000,000	100,000		N.A.			WTH		0.0073	00000000094828	
BU	05-Dec-2017	XXX	22,000,000	100,000		N.A.			WTH		0.0073	00000000094829	
BU	06-Dec-2017	XXX	22,000,000	100,000		N.A.			WTH		0.0073	00000000094830	
BU	07-Dec-2017	XXX	22,000,000	100,000		N.A.			WTH		0.0073	00000000094831	
BU	08-Dec-2017	XXX	22,000,000	100,000		N.A.			WTH		0.0073	00000000094832	
BU	09-Dec-2017	XXX	22,000,000	100,000		N.A.			WTH		0.0073	00000000094833	
BU	10-Dec-2017	XXX	22,000,000	100,000		N.A.			WTH		0.0073	00000000094834	

The figure below displays a sample Excel report:

Product	Method Of Sale	Transaction Period	Location	Sub Transaction Period	BA	Bid Capacity(kWh/day)	Min Qty.(kWh/day)	Entitlement(kWh/day)	Bid Price(p/kWh/day)
ENTRY CAPACITY FIRM PRIMARY	IPDADSEC	01-Apr-2019 to 31-Mar-2020	BU	02-May-2019 to 02-May-2019	xxx	14961624	14961624	14961624	0.0059000
ENTRY CAPACITY FIRM PRIMARY	IPDADSEC	01-Apr-2019 to 31-Mar-2020	MF	03-May-2019 to 03-May-2019	xxx	14961624	14961624	14961624	0.0059000

The figure below displays continuation of Excel Report:

Clearing Price(p/kWh/day)	Flow Start Time	Bundled/Unbundled	Status	Reason	Adjacent TSO	PRISMA Deal ID	Bid ID
0.0059000	5:00	Unbundled	ALL			30507227	XXXBIIIPDADSEC34033
0.0059000	5:00	Unbundled	ALL			30507448	XXXBIIIPDADSEC34061

The figure below displays a sample CSV report:

```
Product,Method Of Sale,Transaction Period,Location,Sub Transaction Period,BA,Bid Capacity(kWh/day),Min Qty.(kWh/day),Entitlement(kWh/day),Bid Price(p/kWh/day),Clearing Price(p/kWh/day),Flow Start Time,Bundled/Unbundled,Status,Reason,Adjacent TSO,PRISMA Deal ID,Bid ID
ENTRY CAPACITY FIRM PRIMARY,IPDADSEC,01-Apr-2019 to 31-Mar-2020,BU,02-May-2019 to 02-May-2019,xxx,14961624,14961624,14961624,0.0059000,0.0059000,05:00,Unbundled,ALL,,30507227,XXXBIIIPDADSEC34033
ENTRY CAPACITY FIRM PRIMARY,IPDADSEC,01-Apr-2019 to 31-Mar-2020,MF,03-May-2019 to 03-May-2019,xxx,14961624,14961624,14961624,0.0059000,0.0059000,05:00,Unbundled,ALL,,30507448,XXXBIIIPDADSEC34061
```

The figure below displays a sample formatted report:

The screenshot shows a report titled 'BIS Information'. At the top, there are fields for 'Product', 'Method of Sale', and 'Transaction Period'. Below this is a table with columns: 'Print', 'BIS Transaction Period', 'IN', 'BIS Deposits (\$MM/Day)', 'BIS Qty (\$MM/Day)', 'BIS Balance (\$MM/Day)', 'BIS Price (\$/MM/Day)', 'Opening Price (\$/MM/Day)', 'BIS Status', 'BIS Type', 'BIS Unit', 'Status', 'Status', 'Status', 'Status', 'Status', 'Status'. Callout 3 points to the 'Print' button, and callout 5 points to the 'BIS Transaction Period' column header.

The table below describes the modifications that will be made to this screen:

1	User can generate the Report in Excel format along with CSV and Formatted (PDF) based upon the option selected.
2	User can select Multiple Locations in the Location field.
3	User can view data 'Multiple' Locations in Excel format in addition to the existing 'CSV' and 'Formatted' formats based upon the option selected.
4	User can view 'Location' column name in query output screen, currently user can see 'Loc' column.
5	User can view 'Location' column name in Excel, CSV and Formatted report. Currently user can see 'Loc' as column name in 'CSV' and Formatted report.

8 Bid Information Detail Report

8.1 Overview

The “Bid Information Detail Report” will provide Bid Information for the Method of Sale instance(s) and the status of each of the bids (e.g. ALL, Exercised, Invoiced, Pending, Recalled, Terminated New, Withdrawn, Rejected and Allocated). The report will be available during and after the closure of the relevant Bid/Offer Window. Every Bid/Offer will be uniquely identified in the system. This is a new screen.

- System: **Gemini**
- Screen Path: **Home > Deal > Bid Capture Reports > Bid Information Detail Report**

8.2 Bid Information Detail Report Screen

The figure below displays the new screen:

The figure below displays Excel Report:

Product	Method of Sale	Term	Transaction Period	Bid Window Period	Sub Tender ID	Contract Type	Tranche No	Location	BA
ENTRY_CAPACITY_FRMFRM	DACSEC	ST	01-Apr-2017 to 31-Mar-2017	D-108:45:00 to D-0 15:00:00				BU	XXX
ENTRY_CAPACITY_FRMFRM	QSEC	LT	01-Oct-2017 to 30-Sep-2018	28-Sep-2015 08:30:00 to 09-Oct-2015 17:00:00				BU	XXX
ENTRY_CAPACITY_FRMFRM	RISEC	LT	01-Oct-2013 to 30-Sep-2013	23-Jul-2013 09:00:00 to 23-Jul-2013 17:00:00				AV	XXX
ENTRY_CAPACITY_FRMFRM	RISEC	ST	01-Apr-2017 to 31-Mar-2018	D-7:05:00:00 to D-0:01:00:00				BU	XXX
ENTRY_CAPACITY_FRMFRM	PDACSEC	ST	01-Apr-2018 to 31-Mar-2019					BI	XXX
ENTRY_CAPACITY_FRMFRM	IPACSEC	LT	01-Oct-2019 to 30-Sep-2020					BI	XXX
ENTRY_CAPACITY_FRMFRM	ECBF	ST	08-Jul-2012 to 22-Jul-2012	06-Jul-2012 15:00:00 to 08-Jul-2012 15:30:00	ST1M10TNSF	ECBF		PH	XXX

ST - Short Term, LT - Long Term
[space] - Non-Applicable field or No Data

The figure below displays continuation of the Excel Report:

Sub Transaction Period	Bid Capacity (kWh)	Min Qty (k/vh)	Allocated Capacity (kWh)	Entitlement (k/vh)	Bundled/ Unb	Entitlement Price (p/kWh)	Flow Start Time	Status	Reason	Price Level	Bid Price (p/kWh)
1-Apr-17	111,000	10,000		111,000		0.19	7.00	ALL			0.19
01-Dec-2017 to 31-Dec-20	106,069.7	10,000		106,069.7		0.0069		ALL		P0	0.0069
01-Oct-2013 to 31-Dec-20	21980325	10000		21980325		0.0001		ALL			0
1-Dec-17	2412250	10000		2412250				vTH			0
01-Apr-2018 to 01-Apr-20	33703200	24		33703200	Unbundled		5.00	ALL			0.18
01-Jan-2020 to 31-Mar-20	7326768			7326768	Bundled			ALL			0.22
08-Jul-2012 to 22-Jul-2012	1100000	100000		1100000		0		ALL			0

The figure below displays continuation of the Excel Report:



Unit Offer Price (p/kWh)	Premium Price (p/kWh)	Exercise Price (p/kWh)	Clearing Price	Bid Stage	Exercised Days/ Total	Adjacent TSO	Prima Deal ID	Bid ID
								XXXBU00000000000001
								XXXBU00000000000032285
								XXXAV00000000000015066
								XXXBU00000000000038082
			0.18				19005128	XXXBIPADSECU48445
			0.22	1		IUK	33223861	XXXBIPAGSECB102914
								XXXMH00000000000030886

The table below describes the key features of the new screen:

1	User can view a new screen at Gemini level, to retrieve Bid data for a specified date range for all Product types and Methods of Sale.
2	User can generate report upon the basis of Period from and Period To, Location(s) and Bid Status.
3	User can view excel report on clicking of the Generate Report button on Bid Information Detail Report screen.

10 Trade Details

10.1 Overview

The existing 'Trade Details' screen displays the details of the trades received from Gemini. This report will classify the trades as bundled / unbundled. Users will be able to view the Trade Requests where they are either the Transferor or Transferee. This screen will be modified in the following ways:

✓ Provision of Generate Report button

- System: **Gemini**
- Screen Path: **Home > Trade > Entry Capacity Trade > Trading**

10.2 Trade Details Screen

The figure below displays the elements of the screen that will be added:

The screenshot shows the Gemini Trade Details interface. At the top, there is a navigation bar with the Gemini logo and 'nationalgrid' branding. Below this is a menu with tabs: Product, Trade, Deal, Constraints, Meter Details, Nominations, OCM, Measurements, and Allocations. The user interface includes a header with 'GEMINI Environment' and a breadcrumb trail: 'You are here : Home > Trade > Entry Capacity Trade > Trading > Query Trade Details'. The main section is titled 'Trade Details' and contains several search filters: Product Type* (ENTRY CAPACITY), Service Type* (INTERRUPTIBLE), BA, Location* (--ALL--), Period From* (02-Mar-2019), Product Category* (CAPACITY), Abbreviated BA Name, Status (--ALL--), Period To* (02-May-2019), and Bid ID. There are 'Query' and 'Clear' buttons. Below the filters is a table with columns: Select, Location, Selling BA, Buying BA, Period From, Period To, Trade Qty (kWh), Trade Price (p/kWh), Time Of Registration, Trade Reference, Status, and Action. A single row of data is visible: IG, XXX, XXX, 15-Mar-2019, 15-Mar-2019, 18,932,387, 16-Mar-2019 00:38:14, 1201268 WTH. At the bottom of the screen, there is a row of buttons: Generate Report, Add, Withdraw, Confirm, Reject, and View. A blue callout box with the number '1' points to the 'Generate Report' button.

2

The figure below displays Excel Report:

Product Type	Product Category	Service Type	Location	Selling BA	Buying BA	Period From	Period To	Trade Qty(KWh)	Tradeprice(p/KWh)	TimeofRegistration	Trade Referenc	Status
Entry Capacity	Capacity	Interruptible	IG	XXX	XXX	30/03/2019	30/03/2019	41,029,940	0.0000	30/03/2019 4:12:05	1201774	WTH
Entry Capacity	Capacity	Interruptible	BU	XXX	XXX	11/04/2019	11/04/2019	15,239,692	0.0000	11/04/2019 3:26:44	1202229	CON
Entry Capacity	Capacity	Interruptible	BU	XXX	XXX	11/04/2019	11/04/2019	586,142	0.0000	11/04/2019 5:12:20	1202231	CON

The table below describes the addition that will be made to this screen:

1	'Generate Report' Button will be added to the screen
2	Excel report will be downloaded on click of the 'Generate Report' button

11 Meters

11.1 Overview

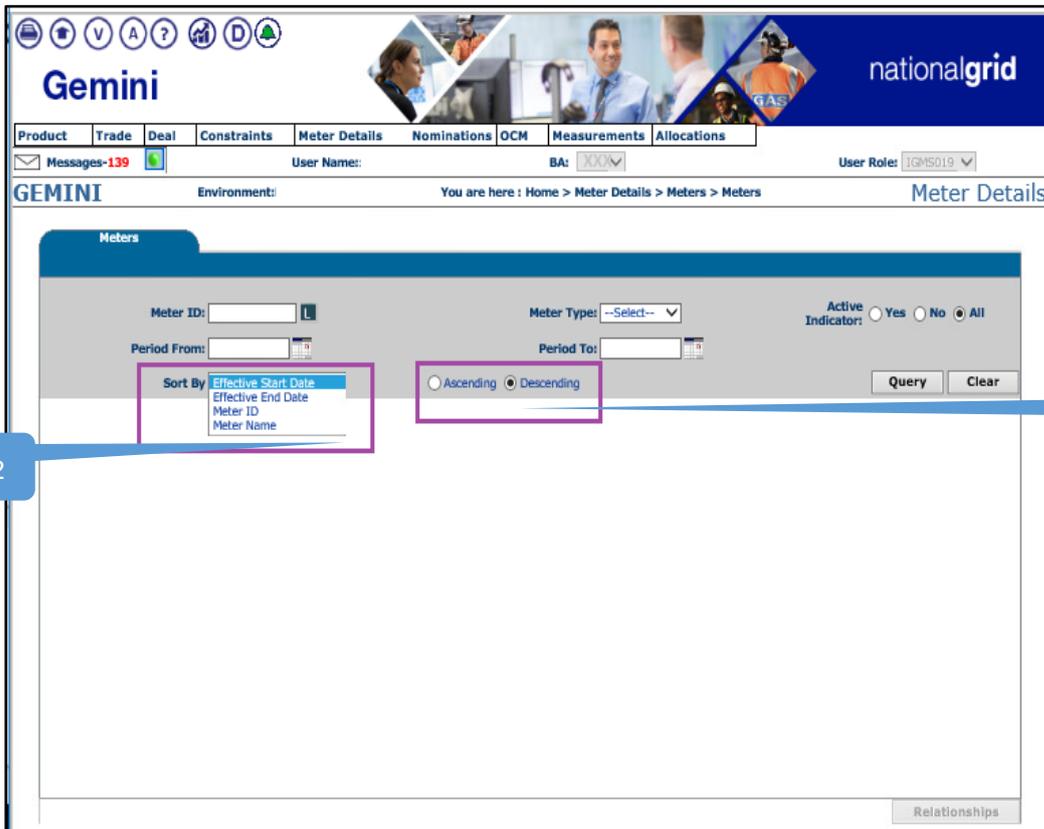
The Meters Screen provides meter details information. This screen will be modified in the following way:

- ✓ Provision of Sorting functionality

- System: **Gemini**
- Screen Path: **Home > Meter Details > Meters**

11.2 Meters Screen

The figure below displays the elements of the screen that will be modified:



The screenshot shows the Gemini system interface with a table of meters. A blue callout box with the number '4' points to the 'Effective Start Date' column in the table. The table has columns for Select, Meter ID, Meter Name, Meter Type, Effective Start Date, Effective End Date, Active Indicator, and Action. The 'Effective Start Date' column is highlighted with a purple box.

Select	Meter ID	Meter Name	Meter Type	Effective Start Date	Effective End Date	Active Indicator	Action
<input checked="" type="radio"/>	ABSL0S	ABSL SWINDON	OS	30-Jun-2021		Y	V
<input type="radio"/>	A000001861	SO1 DMAF BG TRADING	DF	03-Jun-2021		N	V
<input type="radio"/>	A000001861	SO1 DMAF BG TRADING	DF	01-Jun-2021	2021-06-02 00:00:00.0	Y	V
<input type="radio"/>	A000001861	SO1 DMAF BG TRADING	DF	26-May-2021	2021-05-31 00:00:00.0	Y	V
<input type="radio"/>	STOBOS	STOKE BARDOLPH 2 BIOMETHANE	OS	21-Apr-2021		Y	V
<input type="radio"/>	238497101	SO1 DMC BUS-SHP	DC	01-Apr-2021		Y	V
<input type="radio"/>	A000001895	EM2 DMAF BG TRADING	DF	08-Mar-2021		N	V
<input type="radio"/>	236884012	EM2 DMC BUS-SHP	DC	08-Mar-2021		Y	V
<input type="radio"/>	237226267	NO1 DMC BUS-SHP	DC	01-Mar-2021		Y	V
<input type="radio"/>	FINHOS	FINHAM BIOMETHANE	OS	24-Feb-2021		Y	V
<input type="radio"/>	A000001895	EM2 DMAF BG TRADING	DF	01-Feb-2021	2021-03-07 00:00:00.0	Y	V
<input type="radio"/>	A000002213	WM3 DMAF BG TRADING	DF	07-Jan-2021		Y	V
<input type="radio"/>	235836549	NO1 DMC BUS-SHP	DC	01-Jan-2021		Y	V

The table below describes the modifications that will be made to this screen:

1	User can sort the query output based upon the selection from the 'Sort By' drop down
2	User can view the list in 'Sort By' dropdown, the columns for which Sorting is available.
3	User can specify whether the sorting is to be 'Ascending' or 'Descending'.
4	The query results will be based on the selected Sort By and 'Ascending' or 'Descending' options

12 OCM/OTC Trade Details

12.1 Overview

The existing 'OCM/OTC Trade' screen, details the information related to trades conducted by the user and their status for a gas day. This screen will be modified in the following ways:

- ✓ Provision of Generate Report button

- System: **Gemini**
- Screen Path: **Home > OCM > Trade Details > OCM/OTC Trade Details**

12.2 OCM/OTC Trade Details Screen

The figure below displays the elements of the screen that will be modified:

The figure below displays continuation of Excel Report:

Gas Day	Matched	Order by	BA	Requested Energy	Requested Status	Reason code	Scheduled Energy	BA	Requested Energy	Requested	Reason code	Scheduled Energy
07/03/2019	Yes	Buy	BA	16,398,118	A		16,398,118	BA	16,398,118	A		16,398,118
07/03/2019	Yes	Buy	BA	10,257,485	R	NM	10,257,485	BA	10,257,485	A		10,257,485
07/03/2019	Yes	Buy	BA	732,678	R	NM	732,678	BA	732,678	A		732,678
07/03/2019	Yes	Buy	BA	732,678	R	NM	732,678	BA	732,678	R	NM	732,678
07/03/2019	Yes	Buy	BA	1,318,820	R	NM	1,318,820	BA	1,318,820	A		1,318,820

The table below describes the modifications that will be made to this screen:

1	User can view OCM/OTC Trade details screen with 'Generate Report' Button.
2	User can view Excel report on clicking of Generate Report button on OCM/OTC Trade details screen

13 EU Nominations

13.1 Overview

Gemini will facilitate user to view the EU Nominations in the existing 'EU Nominations' screen. The EU Nominations screen will be modified in the following ways:

- ✓ Provision of Sorting functionality
- ✓ Provision of tooltips providing descriptions for Status Codes and Reason Codes

- System: **Gemini**
- Screen Path: **Home > Nominations > EU Nominations > EU Nominations**

13.2 EU Nominations Screen

The figure below displays the elements of the screen that will be modified:

The screenshot shows the Gemini EU Nominations screen. At the top, there is a navigation bar with 'Product', 'Trade', 'Deal', 'Constraints', 'Meter Details', 'Nominations', 'OCM', 'Measurements', and 'Allocations'. Below this is a header with 'GEMINI Environment: You are here : Home > Nominations > EU Nominations > EU Nominations'. The main content area is titled 'EU Nominations' and contains a search form with fields for 'BA: XXXX XXXX XXXX', 'Connection Point: --ALL--', 'Unit: kWh/d', 'Nomination Type: --ALL--', 'External Account TSO', 'EIC: --ALL--', 'Gas Direction: --ALL--', 'Start Date*: 02-Mar-2019', and 'End Date*: 03-Jun-2020'. There are also 'Sort By' and 'Ascending/Descending' options. Below the form is a table with columns: 'Account TSO', 'External Account', 'Gas Direction', 'Start Date & Time', 'End Date & Time', 'Nominated Quantity kWh/d', 'Processed Quantity kWh/d', 'Confirmed Quantity kWh/d', 'Meter ID', 'Status Code', 'Reason Code', and 'Action'. The table contains 15 rows of data. Callout 1 points to the 'Reason Code' column, callout 2 points to the 'Status Code' column, callout 3 and 4 point to the 'Sort By' dropdown, and callout 5 points to the 'Query' button.

The table below describes the modifications that will be made to this screen:

1	User can view the description of the 'Reason code' as a tooltip in 'EU Nominations' query output.
2	User can view the description of the 'Status code' as a tooltip in 'EU Nominations' query output.
3	User can sort the query output based upon the selection from the 'Sort By' drop down.
4	User can view the list in 'Sort By' options, columns for which Sorting is applicable.

5	User can do sorting based upon 'Ascending' or 'Descending' options
---	--

14 Allocation Details by ASEP/Meter Type

14.1 Overview

The existing 'Allocation Details by ASEP / Meter Type' screen provides the Allocation details at Meter Type and ASEP level. This screen will be modified in the following ways:

- ✓ Provision of Generate Report button

- System: **Gemini**
- Screen Path: **Home > Allocations > Allocation Details > By ASEP / Meter Type**

14.2 Allocation Details by ASEP/Meter Type Screen

The figure below displays the elements of the screen that will be modified:

Allocation Details
By ASEP / Meter Type

Gas Day From*: 01-Jul-2020 Gas Day To*: 30-Jul-2020 Input / Output: Input Meter Type: ASEP

BA: XXX XXXX XXXXX

ASEP: Available Add Selected
AB-AVONMOUTH BOILOFF
AL-ALDROUGH STORAGE
AV-AVONMOUTH LNG

Select	ASEP	Entry Zone	Nomination (kWh)	Allocation (kWh)	Opposite Flow (kWh)	Net Allocation (kWh)
<input type="checkbox"/>	BE	BIP	0	0	0	0
<input type="checkbox"/>	BP	BUR	0	0	0	0
<input type="checkbox"/>	BR	BAR	0	0	0	0
<input type="checkbox"/>	BS	HGW	0	0	0	0
<input type="checkbox"/>	BU	BLK	1,790,595,713	1,797,315,432		1,797,315,432
Total:			2,956,319,853	2,950,179,714		2,950,179,714

Generate Report View

The screenshot displays the Gemini Allocations interface. At the top, there is a navigation bar with the Gemini logo and 'nationalgrid' branding. Below this is a menu with tabs for Product, Trade, Deal, Constraints, Meter Details, Nominations, OCM, Measurements, and Allocations. The current view is 'Allocations'. The interface includes a search bar with 'BA: XXX XXXX XXX', a date range for 'Gas Day From*' (01-Jul-2020) and 'Gas Day To*' (30-Jul-2020), and an 'Input / Output' dropdown set to 'Input'. There are radio buttons for 'Meter Type' and 'ASEP'. A table below shows the allocation details for 'Meter Type' 'ST'. The table has columns for 'Select', 'Meter Type', 'Nomination (kWh)', 'Allocation (kWh)', 'Opposite Flow (kWh)', and 'Net Allocation (kWh)'. The 'Generate Report' button is highlighted with a red box, and a callout bubble with the number '2' points to it.

Select	Meter Type	Nomination (kWh)	Allocation (kWh)	Opposite Flow (kWh)	Net Allocation (kWh)
<input type="checkbox"/>	ST	2,554,469,607	2,548,117,363		2,548,117,363
Total:		2,554,469,607	2,548,117,363		2,548,117,363

3

Gas day from	Gas day To	ASEP	Entry Zone	Nomination (kWh)	Allocation (kWh)	Opposite Flow (kWh)	Net Allocation (kWh)
07/09/2019	08/09/2019	BP	BUR	0	0		0
07/09/2019	08/09/2019	CH	HOLF	0	0		0
07/09/2019	08/09/2019	CH	SUF	0	0		0
07/09/2019	08/09/2019	EA	EAS	14,436,677	14,436,677		14,436,677
07/09/2019	08/09/2019	EA	RHW	0	0		0

4

Gas day From	Gas day To	Meter Type	Nomination (kWh)	Allocation (kWh)	Opposite Flow (kWh)	Net Allocation (kWh)
07/09/2019	08/09/2019	BL	20,863,188	20,806,284		20,806,284
07/09/2019	08/09/2019	OS	6,048,953	6,247,453		647,453

The table below describes the modifications that will be made to this screen:

1	User can view Allocation details by ASEP with 'Generate Report' button depending on the query criteria on the screen
2	User can view Allocation details by Meter Type with 'Generate Report' button depending on the query criteria on the screen
3	User can view Excel report on clicking of Generate Report button on Allocation details by ASEP.
4	User can view Excel report on clicking of Generate Report button on Allocation details by Meter Type.

15 Allocation Details by LDZ/Meter Type

15.1 Overview

The existing 'Allocation Details by LDZ / Meter Type' screen will provide the Allocation details at Meter Type and LDZ level. This screen will be modified in the following ways:

- ✓ Provision of Generate Report button

- System: **Gemini**
- Screen Path: **Home > Allocations > Allocation Details > By LDZ / Meter Type**

15.2 Allocation Details by LDZ/Meter Type Screen

The figure below displays the elements of the screen that will be modified:

The screenshot shows the 'Allocation Details by LDZ / Meter Type' screen. At the top, there's a navigation bar with 'Product', 'Trade', 'Deal', 'Constraints', 'Meter Details', 'Nominations', 'OCM', 'Measurements', and 'Allocations'. Below this, there are fields for 'Messages-139', 'User Name', 'BA: [dropdown]', and 'User Role: JGMS019'. The main content area has a title 'Allocation Details By LDZ / Meter Type' and filters for 'Gas Day From' (01-Jun-2020), 'Gas Day To' (30-Jun-2020), 'Input / Output' (Output), and 'Meter Type' (LDZ / NTS). There are 'Add' and 'Remove' buttons for selecting LDZ types. A table displays the following data:

Select	LDZ	Nomination (kWh)	Allocation (kWh)	Opposite Flow (kWh)	Net Allocation (kWh)
<input type="checkbox"/>	EA	251,100,409	248,921,014		248,921,014
<input type="checkbox"/>	EM	357,122,669	337,653,327		337,653,327
<input type="checkbox"/>	LC	269,165	408,849		408,849
<input type="checkbox"/>	LO	211,900	237,380		237,380
<input type="checkbox"/>	LS	682,329	643,044		643,044
<input type="checkbox"/>	LT	366,003	465,097		465,097
Total:		3,252,522,954	3,253,026,324		3,253,026,324

At the bottom right of the table, there are buttons for 'Generate Report', 'View', and 'Cancel'. The 'Generate Report' button is highlighted with a red box.

1

Output Allocations By LDZ / Meter Type

Gas Day From*: 01-Jun-2020 Gas Day To*: 30-Jun-2020 Input / Output: Output Meter Type: LDZ / NTS

BA: XXX XXXX XXXX

Available Meter Type:

Selected: DC-DAILY METERED CONSUMER, DF-DAILY METERED AGGREGATE FIRM, DI-DAILY METERED AGGR INTERRUPT

Select	Meter Type	Nomination (kWh)	Allocation (kWh)	Opposite Flow (kWh)	Net Allocation (kWh)
<input type="checkbox"/>	DC	2,586,464,329	2,596,602,790		2,596,602,790
<input type="checkbox"/>	DF	18,170,752	18,634,001		18,634,001
<input type="checkbox"/>	NA	3,142,836,198	3,144,577,517		3,144,577,517
<input type="checkbox"/>	UG	17,391,388	7,141,049		7,141,049
<input type="checkbox"/>	XF	0	0		0
Total:		5,764,862,667	5,766,955,357		5,766,955,357

Note: UG meter type is effective from 01-JUN-2017

Generate Report

2

3

Gas day From	Gas day To	LDZ	Nomination (kWh)	Allocation (kWh)	Opposite Flow (kWh)	Net Allocation (kWh)
07/09/2019	08/09/2019	EA	20,658,372	24,191,209		24,191,209
07/09/2019	08/09/2019	EM	14,808,835	14,847,326		14,847,326

4

Gas day From	Gas day To	Meter Type	Nomination (kWh)	Allocation (kWh)	Opposite Flow (kWh)	Net Allocation (kWh)
07/09/2019	08/09/2019	DC	81,297,712	83,696,077		83,696,077
07/09/2019	08/09/2019	DF	6,505,835	6,085,062		6,085,062

The table below describes the modifications that will be made to this screen:

1	User can view Allocation details by LDZ with 'Generate Report' Button depending on the query criteria on the screen
2	User can view Allocation details by Meter Type with 'Generate Report' Button depending on the query criteria on the screen
3	User can view excel report on clicking of Generate Report button on Allocation details by LDZ.
4	User can view excel report on clicking of Generate Report button on Allocation details by Meter Type.

16 Nominations

16.1 Overview

Gemini facilitates users to view the Nominations in the 'Nominations' screen. This screen will be modified in the following ways:

- ✓ Provision of Sorting functionality
- ✓ Addition of Counter Party BA and Trade/Non-Trade column in the query result.

- System: **Gemini**
- Screen Path: **Home > Nominations > Nominations**

16.2 Nominations Screen

The figure below displays the elements of the screen that will be modified:

The screenshot shows the Gemini Nominations interface. Callout 1 points to the search dropdown, callout 2 to the sort dropdown, callout 3 to the table headers, and callout 4 to the table rows. The table data is as follows:

Activity Number	SF	Meter Id	Counter Party BA	Trade/Non-Trade	Requested Energy(kWh)	Status	Scheduled Energy(kWh)	Status	Reason Code	Opp	Action
000001		XXXXXXXX	XXX	Non - Trade	10,481,395	A	10,481,395	A		N	V
000002		XXXXXXXX	XXX	Non - Trade	17,320,341	A	17,320,341	A		N	V
000003		XXXXXXXX	XXX	Non - Trade	4,227,417	A	4,227,417	A		N	V
000004		XXXXXXXX	XXX	Non - Trade	8,351,306	A	8,351,306	A		N	V
000005		XXXXXXXX	XXX	Non - Trade	10,258,129	A	10,258,129	A		N	V
000006		XXXXXXXX			8,201,718	A	8,201,718	A		N	V
Total:					696,760,515		696,760,515				

The screenshot shows the 'Nominations on System' report. Callout 5 points to the 'Counterparty BA' and 'Trade / Non - Trade' columns. The report data is as follows:

BA	Activity Number	Special Function	Gas Day	Meter	Counterparty BA	Trade / Non - Trade	Opp Flow	Requested Status	Requested Energy (kWh)	Scheduled Energy (kWh)
XXXX	003344		09-Oct-2020	XXXXXXXXXX	xxx	Trade	N	N	0	0
XXXX	003340		09-Oct-2020	XXXXXXXXXX		Non - Trade	N	A	93,2065	93,2065
XXXX	003344		10-Oct-2020	XXXXXXXXXX	xxx	Trade	N	N	0	0
XXXX	003340		10-Oct-2020	XXXXXXXXXX		Non - Trade	N	A	93,2065	93,2065
Totals:									1,864,130	1,864,130

The table below describes the modifications that will be made to this screen:

1	User can sort the query output based upon the selection from the 'Sort By' drop down.
2	User can view the list in Sort By Option, columns for which Sorting is applicable.
3	User can do sorting based upon 'Ascending' or 'Descending' option.
4	User can view Counter Party BA and Trade/Non-Trade as additional column in the query result.
5	User can view Counter Party BA and Trade/Non-Trade as additional column in the PDF report generated.

17 Renominations

17.1 Overview

Gemini facilitates external user to view the Renominations in the 'Renominations' screen. This screen will be modified in the following ways:

- ✓ Provision of Sorting functionality
- ✓ Addition of Counter Party BA and Trade/Non-Trade column in the query result.

- System: **Gemini**
- Screen Path: **Home > Nominations > Renominations**

17.2 Renominations Screen

The figure below displays the elements of the screen that will be modified:

The screenshot shows the Gemini Renominations screen. The interface includes a navigation bar with 'Product', 'Trade', 'Deal', 'Constraints', 'Meter Details', 'Nominations', 'OCM', 'Measurements', and 'Allocations'. Below this is a search and filter section with fields for 'BA', 'Rate Schedule*', 'View By*', 'Search:', and 'By:'. There are also dropdowns for 'Gas Day*', 'Service Id*', and 'Requested Status:'. A 'Sort By:' dropdown is highlighted with callout 1, 2, and 3, showing 'Activity Number' selected. Below the dropdown are radio buttons for 'Ascending' and 'Descending'. The main data table has columns: Activity Number, SF, Meter Id, Counter Party BA, Trade/Non-Trade, Start Time, Requested Energy(kWh), Status, Scheduled Energy(kWh), Status, Number of Steps, Opp Flow, First Nom, and Action. The 'Counter Party BA' and 'Trade/Non-Trade' columns are highlighted with callout 4. The table shows three rows of data. At the bottom, there is a 'Total:' row and a 'Number of activities: 27' indicator. Callout 3 points to the 'Query' and 'Clear' buttons.

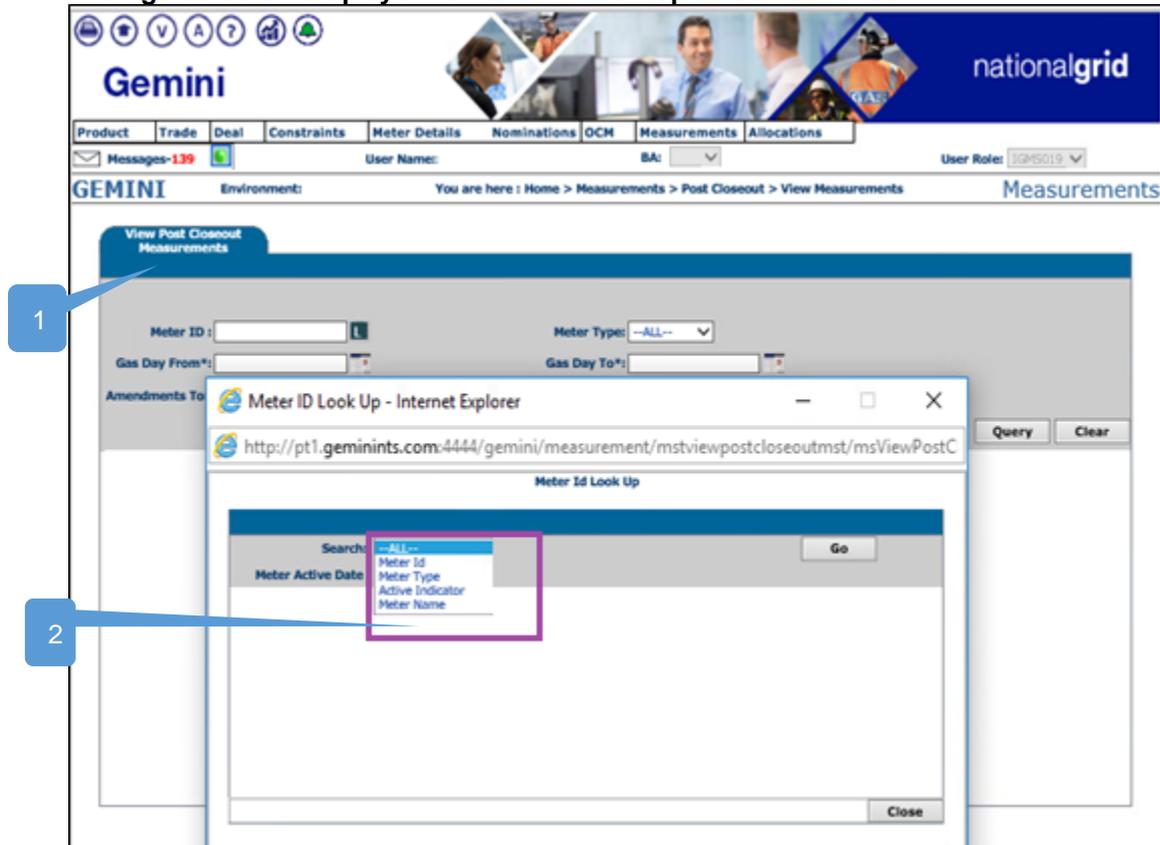
The table below describes the modifications that will be made to this screen:

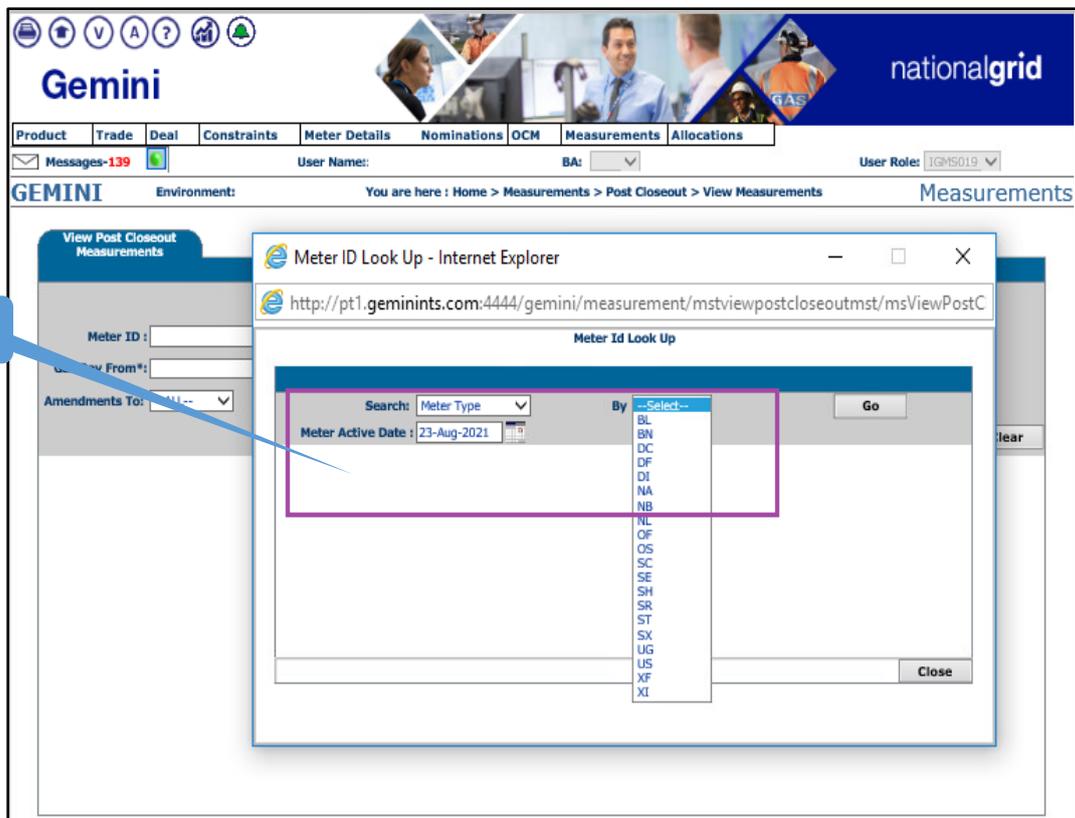
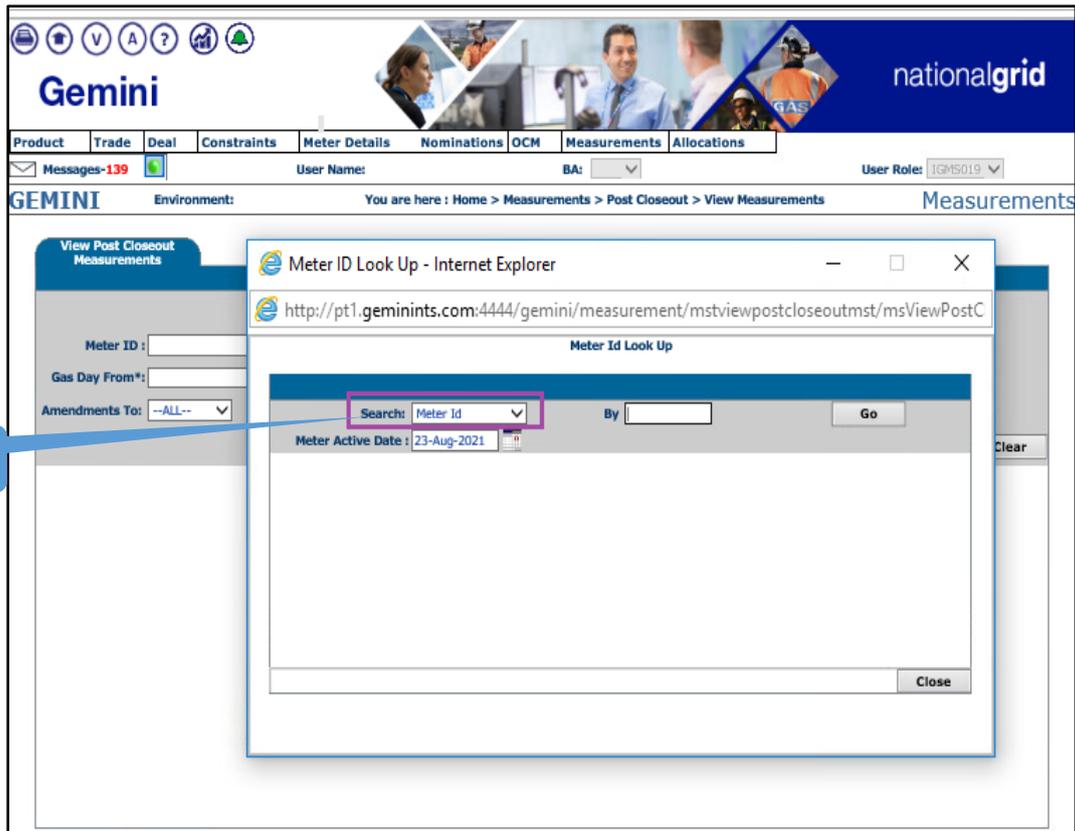
1	User can sort the query output based upon the selection from the 'Sort By' drop down.
2	User can view the list in 'Sort By' option, columns for which Sorting is applicable.
3	User can do sorting based upon 'Ascending' or 'Descending' option.
4	User can view Counter Party BA and Trade/Non-Trade as additional column in the query result.

18 Meter ID Look Up

18.1 Meter ID Look Up Screen behaviour

The figures below displays the Meter ID Look Up screen behaviour:





The screenshot shows the Gemini system interface with a 'View Post Closeout Measurements' window. A 'Meter ID Look Up' dialog box is open, displaying search criteria: 'Search: Active Indicator', 'By: --Select--', and 'Meter Active Date: 23-Aug-2021'. A blue callout box with the number '5' points to the 'By' dropdown menu.

The screenshot shows the Gemini system interface with a 'View Post Closeout Measurements' window. A 'Meter ID Look Up' dialog box is open, displaying search criteria: 'Search: Meter Name', 'By: [empty]', and 'Meter Active Date: 23-Aug-2021'. A blue callout box with the number '6' points to the 'Search' dropdown menu.

The table below describes the Meter ID Look Up Screen behaviour:

1	Meter ID Look Up behaviour will be standardised based on the behaviour of the 'View Measurements' screen.
2	User can view the following list appearing in the search bar after Click of Search option in the Meter Look up screen: Meter ID Meter Type Active Indicator Meter Name
3	If the User selects Meter ID, then 'By' option will appear on the right as a 'Text Box', in which the user can enter a search value
4	If the User selects Meter type, then 'By' option will appear on the right as a 'Drop Down', which will be populated with a list of all Meter Types
5	If the User selects Active Indicator, then 'By' option will appear on the right as a 'Drop Down', which will be populated with "Y" and "N"
6	If the User selects Meter Name, then By option will appears on the right as a 'Text Box', in which the user can enter a search value

18.2 List of Screens for Meter ID Look Up behaviour

These screens will be modified in the following ways:

- ✓ Provision of Standardised Meter Look up behaviour

The table below displays the list of screens where the above Meter ID Look Up behaviour modifications will be done:

Screen Name	Screen Path
Suspended Measurements	Home > Measurements > Suspended Measurements
Process Post Close Out Measurement	Home > Measurements > Process Post Close out Measurement
Meter Energy List	Home > Measurements > Meter Energy List
Maintain Measurement	Home > Measurements > Post Closeout > Maintain Measurement
View Measurement	Home > Measurements > Post Closeout > View Measurements
Post Closeout claims Shipper Input Claims	Home > Allocations > Post Closeout Claims > Shipper Input Claims
Claims Buffer Table	Home > Allocations > Claims Buffer Table
View Allocations	Home > Allocations > Post Closeout Views > View Allocations
View Meter / Live Shipper Agents	Home > Allocations > Post Closeout Views > View Meter / Live Shipper Agents
DM Exit Meters	Home > Allocations > Reports > DM Exit Meters
Allocation Details By Meter ID	Home > Allocations > Allocation Details > By Meter ID
Authorise Post Closeout Allocations	Home > Allocations > Authorise Post Closeout Allocations
Input Claims Data Extract	Home > Allocations > Reports > Input Claim Data Extract
Meter Details Audit Report	Home > Meter Details > Reports > Meter Details Audit
Physical Renomination Details	Home > OCM > Trade Details > Physical Renomination Details
Renominations By Meter	Home > Nominations > Balance > Renominations By Meter
Shipper Input Claims	Home > Allocations > Pre Closeout Claims > Shipper Input Claims
Meters	Home > Meter Details > Meters > Meters
Post Closeout Maintain Measurements	Home > Measurements > Post Closeout > View Measurements
View Post Closeout Measurements	Home > Measurements > Post Closeout > View Measurements

19 Gemini Home

19.1 Overview

The Gemini Home Screen contains various icon and roles to select. This screen will be modified in the following ways:

- ✓ Removal of Message Pop up
- ✓ Breach Indicator icon with colour
- ✓ Breach Indicator navigation on click

- System: **Gemini**
- Screen Path: **Gemini Home Page**

19.2 Gemini Home Screen

The figures below display the elements of the screen that will be added:



The screenshot displays the Gemini system interface. At the top, there is a navigation bar with icons and the Gemini logo. Below this is a menu bar with options: Product, Trade, Deal, Constraints, Meter Details, Nominations, OCM, Measurements, and Allocations. The user interface includes a header with 'GEMINI', 'Environment:', 'You are here: Home > Nominations > Reports > Live Capacity vs Nomination Report', and 'Nominations'. A blue callout box with the number '6' points to the 'Available' location list in the 'Live Capacity vs Nomination Report' section. The report section includes a 'BA: XXX' dropdown, a 'Flow Type' selection (NTS Entry/Exit), a 'Gas Day' dropdown (Within Day/Day Ahead), and a 'Sort By' dropdown (Location). The 'Available' list contains locations: AB, AL, AV, BA, BI, BP, BR. There are 'Add' and 'Remove' buttons between the 'Available' and 'Selected' lists, and an 'Add Favourite' checkbox. At the bottom of the report section are 'Generate Report', 'Query', and 'Clear' buttons.

The table below describes the modifications that will be made to this screen:

1	The Pop up window message will be removed from the Gemini and Gemini Exit systems. Note that messages can still be viewed via the Messages icon in the menu bar.
2	User can view a new Bell icon on top of Gemini screen to indicate the Live Capacity vs Nomination breach. Its colour indicates different breach statuses.
3	 Green Bell Icon indicates 'No Breach'.
4	 Amber Bell Icon indicates 'Potential Breach'. Potential breach is that condition when total requested nomination for the gas day exceeds total entitlement.
5	 Red Bell Icon indicates 'Actual Breach'. Actual breach is that condition when total confirmed nomination for the gas day exceeds total entitlement.
6	User will be navigated to 'Live Capacity vs Nomination Report' screen on clicking of the Bell Icon.

20 Business Associate Balance

20.1 Overview

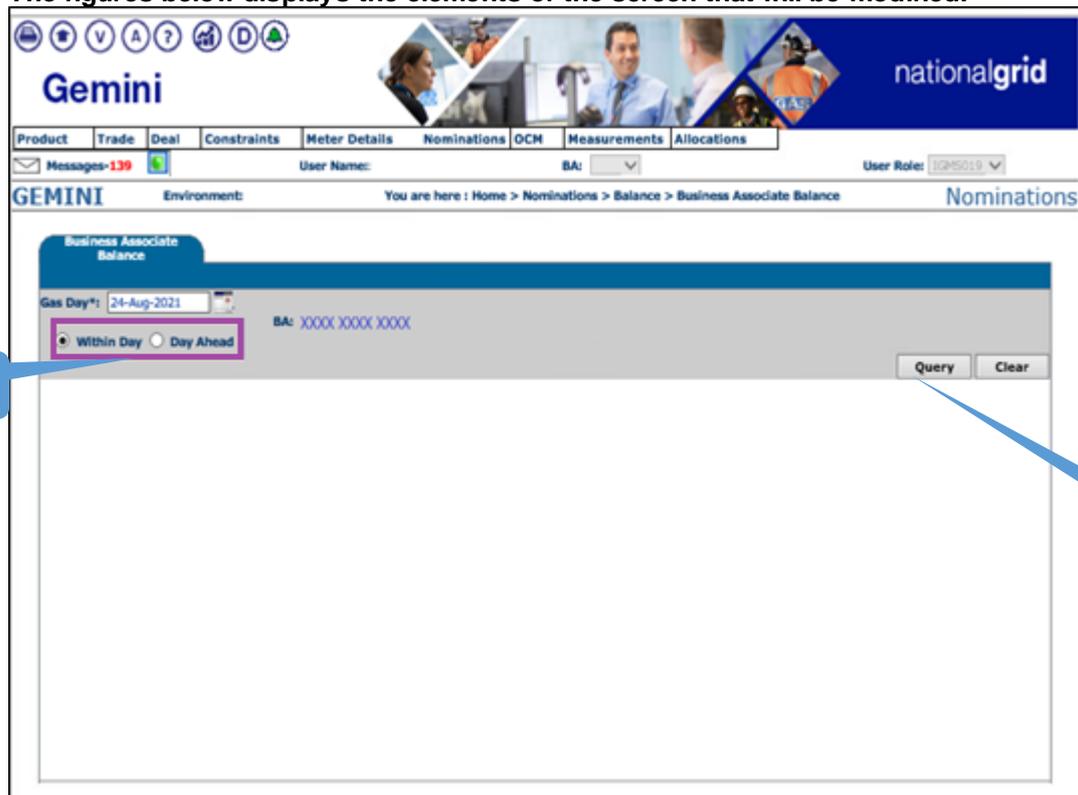
The Business Associate Balance Screen displays the balance between Requested and Scheduled Nomination. This screen will be modified in the following ways:

- ✓ Provision of 'Within Day' and 'Day Ahead' option.

- System: **Gemini**
- Screen Path: **Home > Nominations > Balance > Business Associate Balance**

20.2 Business Associate Balance Screen

The figures below displays the elements of the screen that will be modified:



The screenshot shows the Gemini Business Associate Balance interface. At the top, there is a navigation bar with the Gemini logo and nationalgrid branding. Below this is a menu with tabs for Product, Trade, Deal, Constraints, Meter Details, Nominations, OCH, Measurements, and Allocations. The current page is titled "Business Associate Balance" and includes a "Gas Day*" field set to "25-Aug-2021" and a "BA: XXXX XXXX XXXX" field. Two radio buttons are present: "Within Day" (selected) and "Day Ahead". A "Query" button and a "Clear" button are located on the right side of the form. A blue callout box with the number "2, 4" points to the radio buttons, and another blue callout box with the number "6" points to the "Query" button.

This screenshot is identical to the one above, but the "Gas Day*" field is set to "20-Aug-2021". The "Within Day" radio button is still selected. A blue callout box with the number "5" points to the radio buttons, and another blue callout box with the number "6" points to the "Query" button.

The table below describes the modifications that will be made to this screen:

1	User can view data upon selection of Within Day and Day Ahead option on the screen.
2	User can view change in date field in query criteria based upon selection of either Within Day or Day Ahead option.
3	The "Gas Day" field will be defaulted to the current gas day (D) upon selecting Within Day option.
4	The "Gas Day" field will be defaulted to next gas day (D+1) upon selecting Day Ahead option.
5	The Within Day and Day Ahead options will be unselected upon selecting a Gas Day other than the current Gas Day (D).
6	User can view the result according to the date selected in query criteria on clicking the "Query" button.

21 BA Total Energy Forecast

21.1 Overview

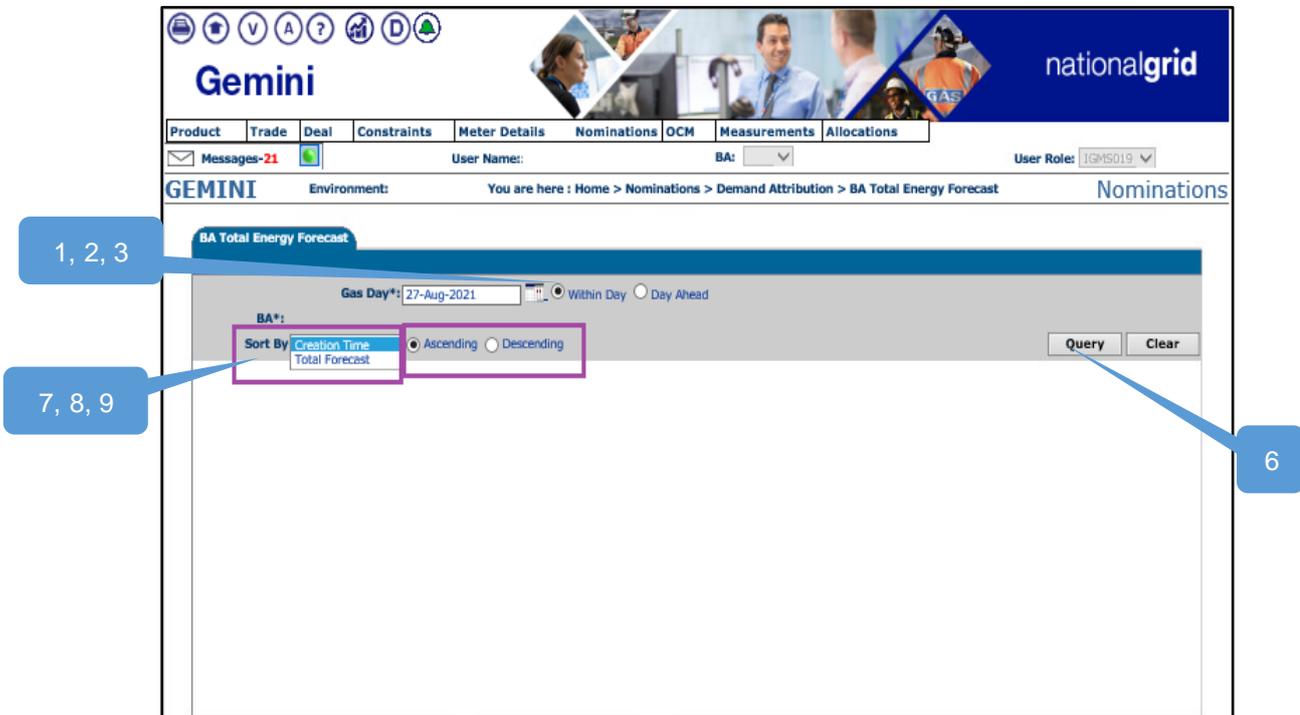
The BA Total Energy Forecast Screen displays the Total Energy Forecast of individual BA. This screen will be modified in the following ways:

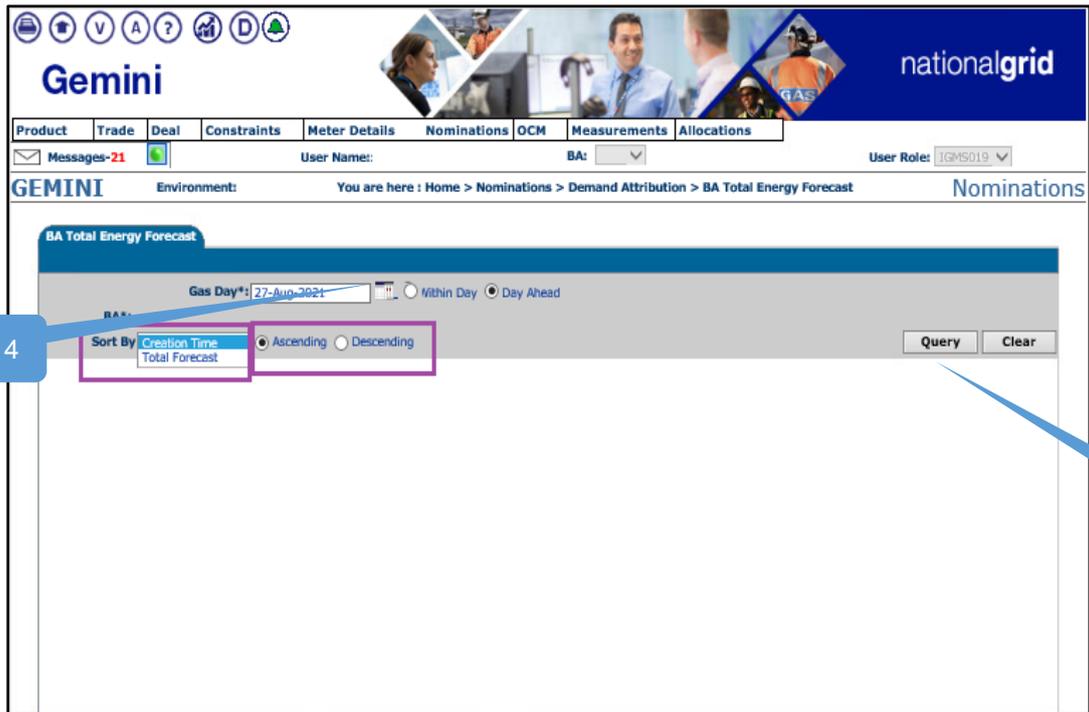
- ✓ Provision of 'Within Day' and 'Day Ahead' option.
- ✓ Provision of Sorting facility.

- System: **Gemini**
- Screen Path: **Home > Nominations > Demand Attribution > BA Total Energy Forecast**

21.2 BA Total Energy Forecast Screen

The figure below displays the elements of the screen that will be modified:





The table below describes the modifications that will be made to this screen:

1	User can view data upon selection of Within Day and Day Ahead option on the screen.
---	---

2	User can view change in date field in query criteria based up on selection of either Within Day or Day Ahead option.
3	The "Gas Day" field will be defaulted to the current gas day (D) upon selecting Within Day option.
4	The "Gas Day" field will be defaulted to next gas day (D+1) upon selecting Day Ahead option.
5	The Within Day and Day Ahead options will be unselected upon selecting a Gas Day other than the current Gas Day (D).
6	User can view the result according to the date selected in query criteria on clicking the "Query" button.
7	User can sort the query output based upon the selection from the 'Sort By' drop down.
8	User can view the list in 'Sort By' option, columns where Sorting is applicable.
9	User can do sorting based upon 'Ascending' or 'Descending' option.

22 LDZ to Meter Relationships

22.1 Overview

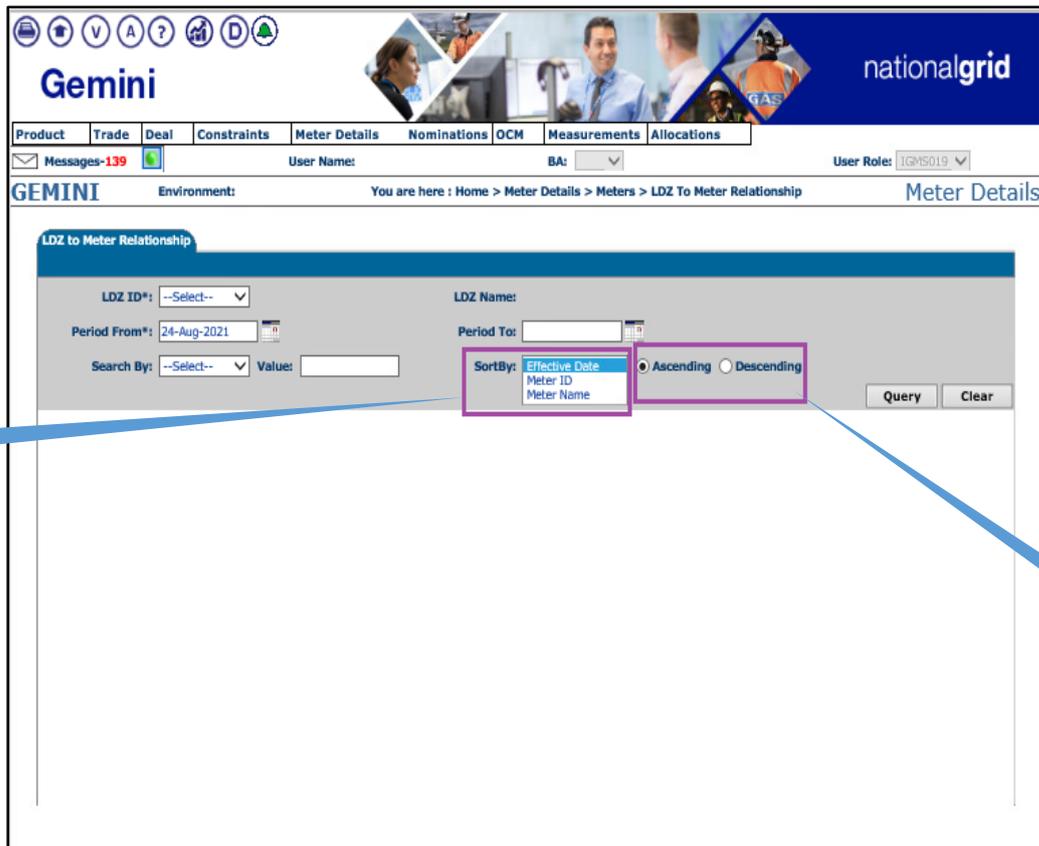
This screen provides the relationship between LDZ and Meter ID. This screen will be modified in the following ways:

- ✓ Provision of Sorting functionality

- System: **Gemini**
- Screen Path: **Home > Meter Details > Meters > LDZ to Meter Relationship**

22.2 LDZ to Meter Relationships Screen

The figure below displays the elements of the screen that will be modified:



The table below describes the modifications that will be made to this screen:

1	User can sort the query output based upon the selection from the 'Sort By' drop down.
2	User can view the list in 'Sort By' option, columns where Sorting is applicable.
3	User can do sorting based upon 'Ascending' or 'Descending' option.

23 View Terminal List

23.1 Overview

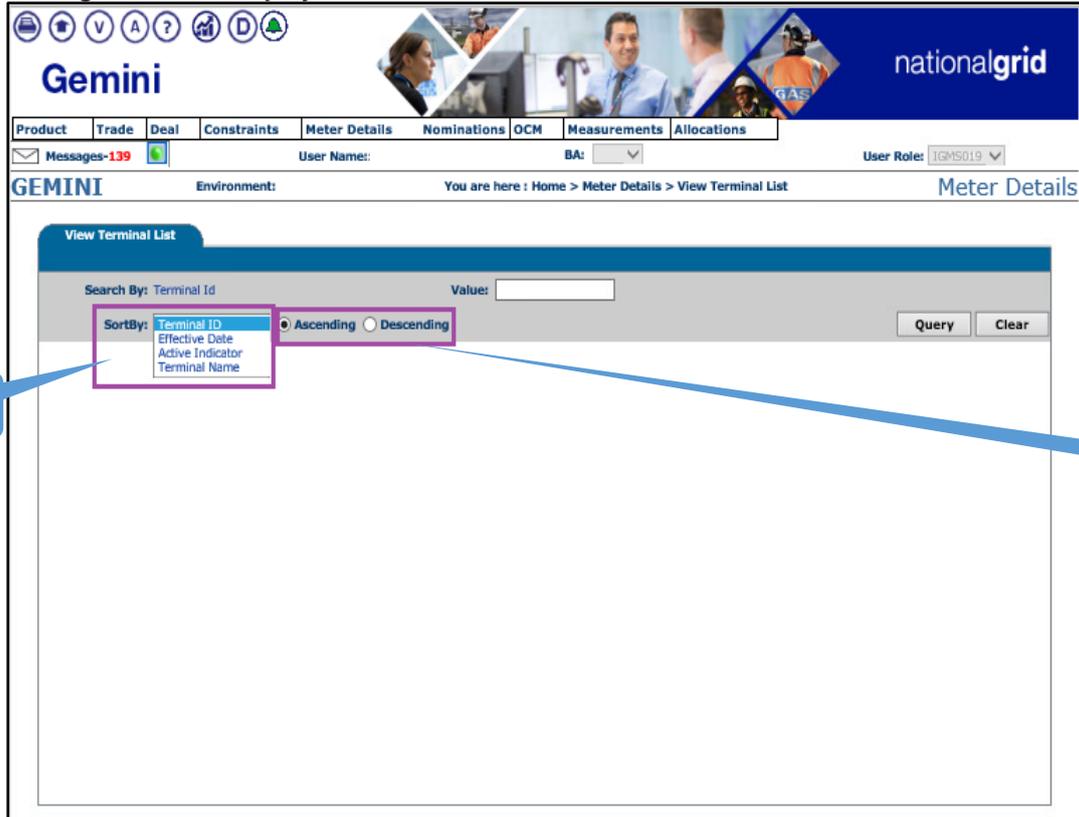
This screen displays the Terminal List. This screen will be modified in the following ways:

- ✓ Provision of Sorting functionality

- System: **Gemini**
- Screen Path: **Home > Meter Details > View Terminal List**

23.2 View Terminal List Screen

The figure below displays the elements of the screen that will be modified:



The table below describes the modifications that will be made to this screen:

1	User can sort the query output based upon the selection from the 'Sort By' drop down.
2	User can view the list in 'Sort By' option, columns where Sorting is applicable.
3	User can do sorting based upon 'Ascending' or 'Descending' option.

24 View Zone List

24.1 Overview

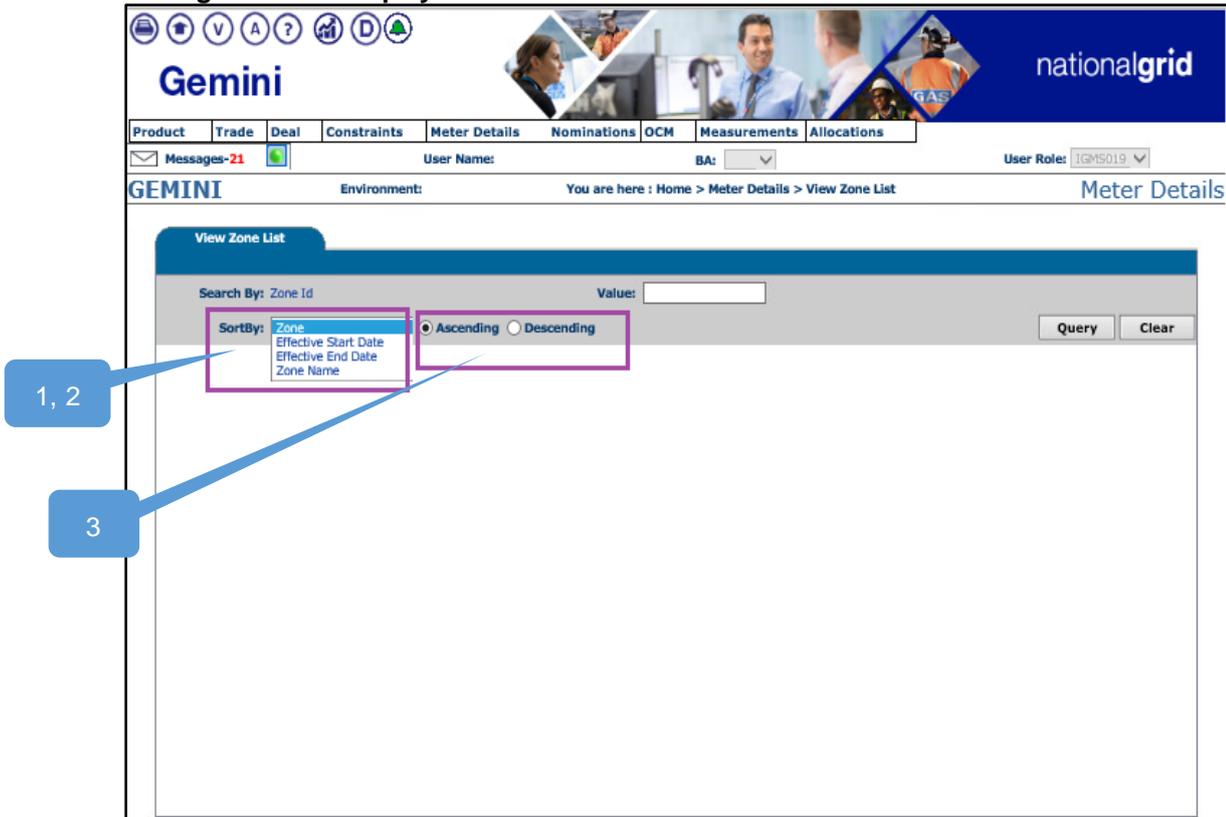
This screen displays the Zone List. This screen will be modified in the following ways:

- ✓ Provision of Sorting functionality

- System: **Gemini**
- Screen Path: **Home > Meter Details > View Zone List**

24.2 View Zone List Screen

The figure below displays the elements of the screen that will be modified:



The table below describes the modifications that will be made to this screen:

1	User can sort the query output based upon the selection from the 'Sort By' drop down.
2	User can view the list in 'Sort By' option, columns where Sorting is applicable.
3	User can do sorting based upon 'Ascending' or 'Descending' option.

25 Activities

25.1 Overview

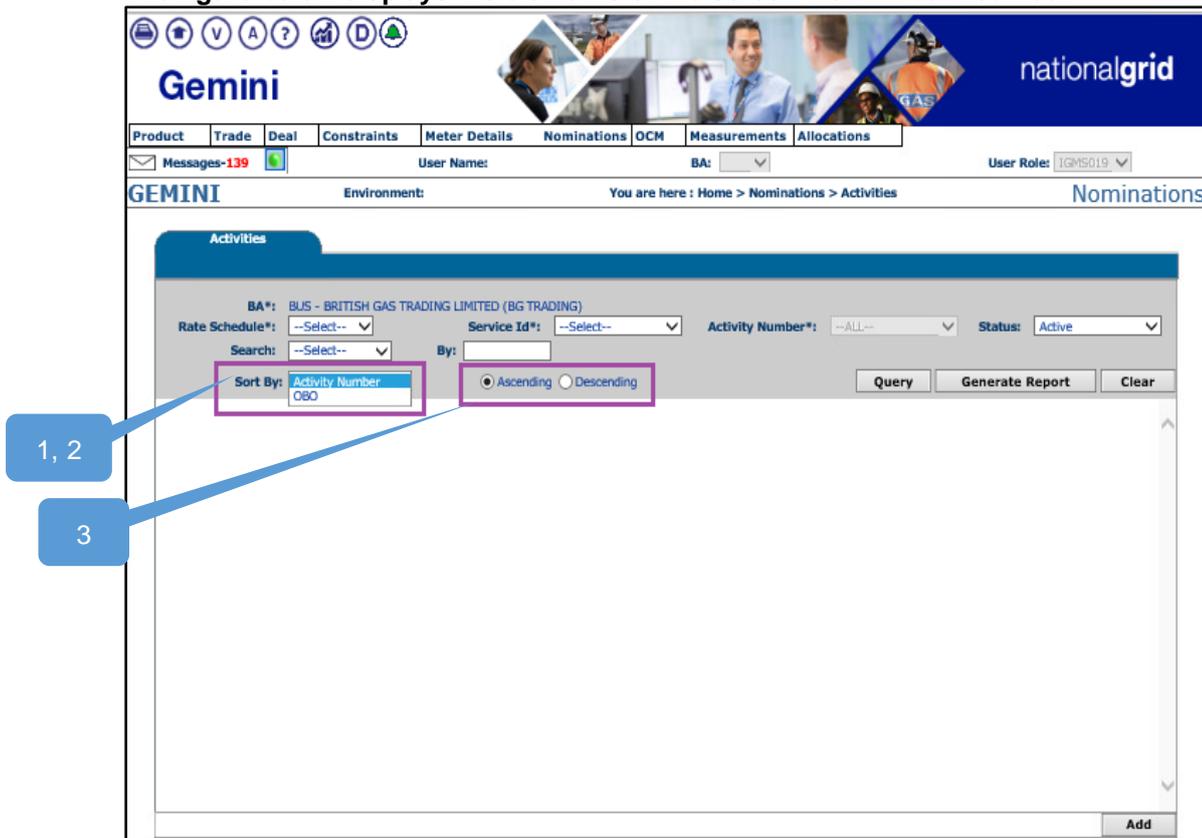
This screen displays the activities of individual BA. This screen will be modified in the following ways:

- ✓ Provision of Sorting functionality

- System: **Gemini**
- Screen Path: **Home > Nominations > Activities**

25.2 Trade Details Screen

The figure below displays the elements of the screen that will be modified:



The table below describes the modifications that will be made to this screen:

1	User can sort the query output based upon the selection from the 'Sort By' drop down.
2	User can view the list in 'Sort By' option, columns where Sorting is applicable.
3	User can do sorting based upon 'Ascending' or 'Descending' option.

26 Shipper Forecast UIG Report

26.1 Overview

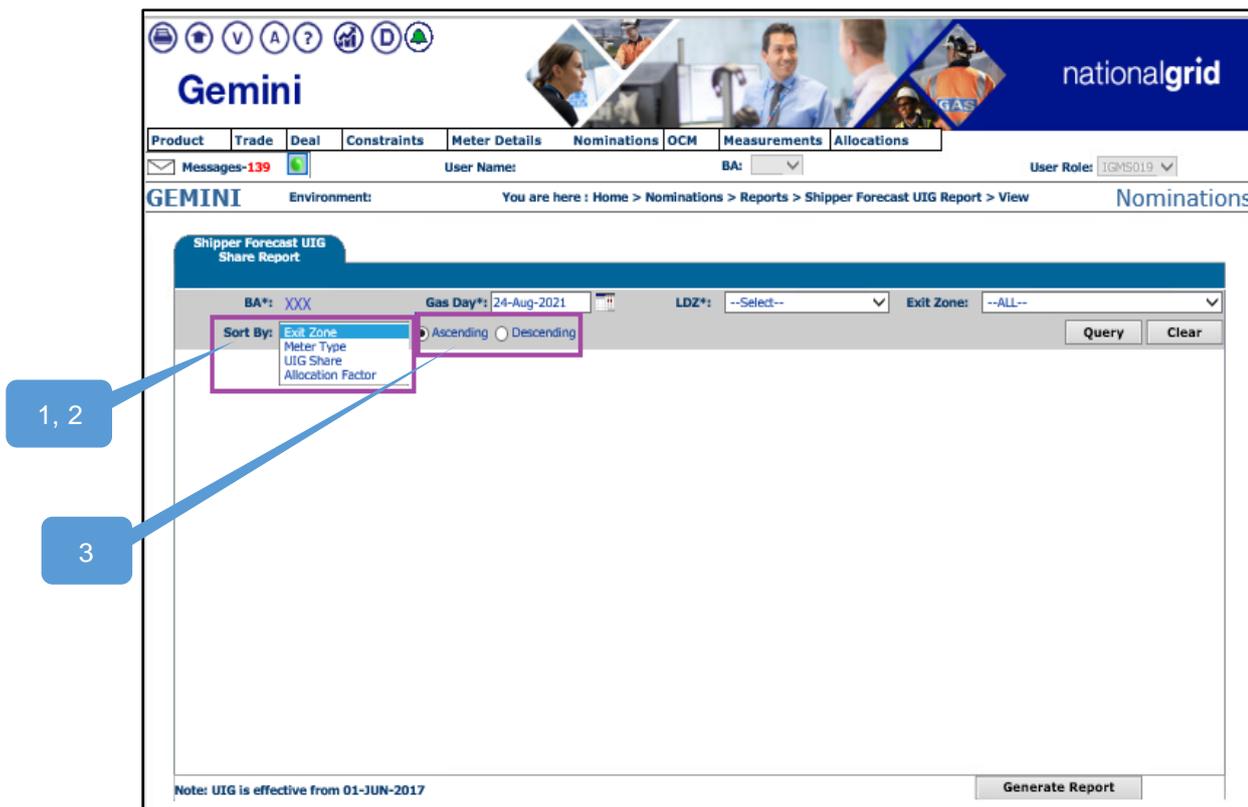
This provides forecast UIG details at Shipper level. This screen will be modified in the following ways:

- ✓ Provision of Sorting functionality

- System: **Gemini**
- Screen Path: **Home > Nominations > Reports > Shipper Forecast UIG Report**

26.2 Shipper Forecast UIG Report Screen

The figure below displays the elements of the screen that will be modified:



The table below describes the modifications that will be made to this screen:

1	User can sort the query output based upon the selection from the 'Sort By' drop down.
2	User can view the list in 'Sort By' option, columns where Sorting is applicable.
3	User can do sorting based upon 'Ascending' or 'Descending' option.

27 Live Capacity vs Nominations Report

27.1 Overview

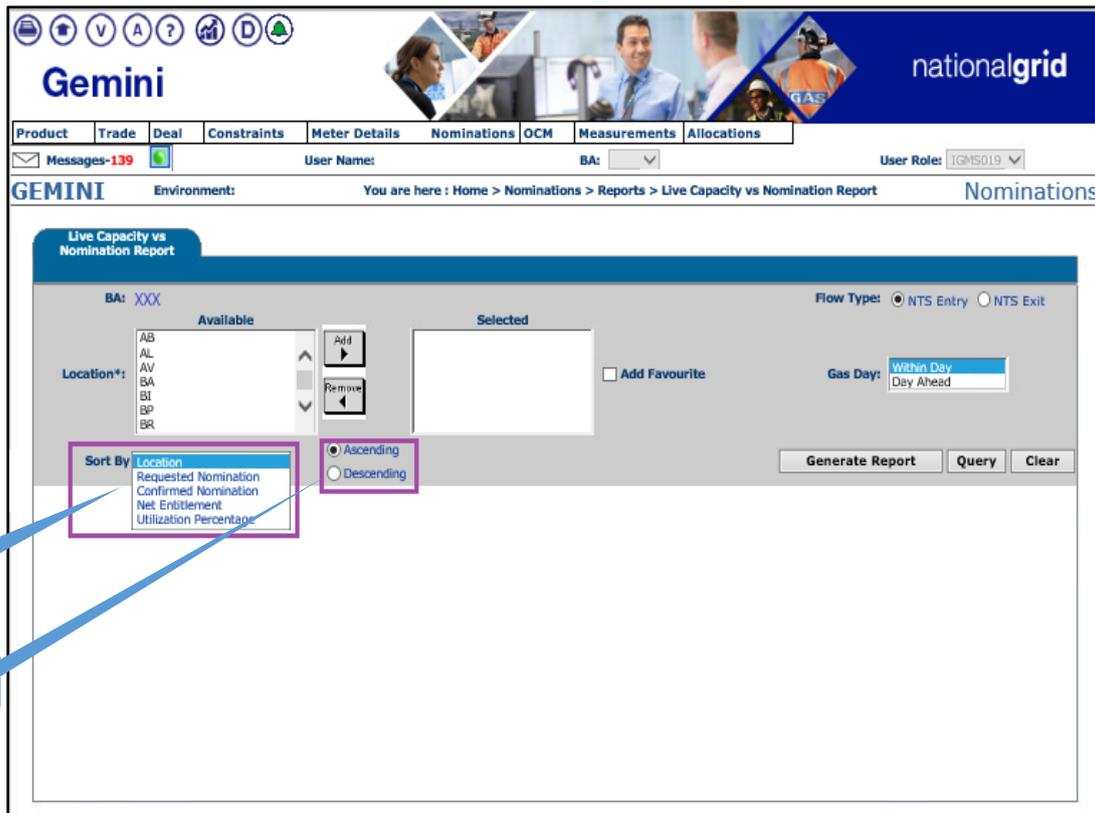
This screen displays the comparison of Live Capacity and Nominations Report. This screen will be modified in the following ways:

- ✓ Provision of Sorting functionality

- System: **Gemini**
- Screen Path: **Home > Nominations > Reports > Live Capacity vs Nomination Report**

27.2 Live Capacity vs Nominations Report Screen

The figure below displays the elements of the screen that will be modified:



The table below describes the modifications that will be made to this screen:

1	User can sort the query output based upon the selection from the 'Sort By' drop down.
2	User can view the list in 'Sort By' option, columns where Sorting is applicable.
3	User can do sorting based upon 'Ascending' or 'Descending' option.

28 Glossary of Terms

REF	Field	Description
1	API	Application Programming Interface
2	BA	Business Associate
3	BR	Business Requirement
4	EU	European Union
5	GSE	Gemini System Enhancements
6	MoS	Method of Sale
7	NG	National Grid
8	UNC	Uniform Network Code