

Gemini System Enhancements External Screens Pack

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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 screenshot shows the Gemini Entitlements-Net interface. Callout 1 points to the 'Product Type*' dropdown menu. Callout 2 points to the 'Location*' dropdown menu, which includes an 'ALL' option. Callout 3 points to the 'Type of Bundled*' dropdown menu. Callout 4 points to the 'Report Option' dialog box, which has radio buttons for 'Excel', 'CSV', and 'Formatted'. Callout 5 points to the 'Generate Report' button at the bottom right of the screen.

Gas Day	Location	Net Capacity(kWh)	Action	Net Firm (kWh)	Action	Net Interruptible(kWh)	Action	Net Scaled Interruptible (kWh)	Action
01-Oct-2020	BA	0	V	0	V	0	V	0	V
01-Oct-2020	BU	16,100,000	V	16,100,000	V	0	V	0	V
01-Oct-2020	IG	170,000,000	V	170,000,000	V	0	V	0	V
01-Oct-2020	SF	1,917,458	V	1,917,458	V	0	V	0	V
01-Oct-2020	TE	7,831,513	V	7,831,513	V	0	V	0	V
02-Oct-2020	BA	0	V	0	V	0	V	0	V
02-Oct-2020	BU	16,100,000	V	16,100,000	V	0	V	0	V
02-Oct-2020	IG	170,000,000	V	170,000,000	V	0	V	0	V
02-Oct-2020	SF	1,917,458	V	1,917,458	V	0	V	0	V
02-Oct-2020	TE	7,831,513	V	7,831,513	V	0	V	0	V

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	TESSIDE	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	TESSIDE	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

Product Trade Deal Constraints Meter Details Nominations OCM Measurements Allocations

Messages-139 User Name: BA: User Role: IGMS019

GEMINI Environment: You are here : Home > Product > Entitlements - Net > View Product

Entitlements

Product Type*: ENTRY CAPACITY

BA Code: XXX BA Abbr. Name: XXX XXXX BA Name: XXXX XXXX XXX

Location*: AL AV

Period From*: 01-Oct-2020 Period To*: 02-Oct-2020

Selected Business Associate: XXX

Type of Bundled: Unbundled Selected Gas Day: 01-Oct-2020

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

Cancel

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:

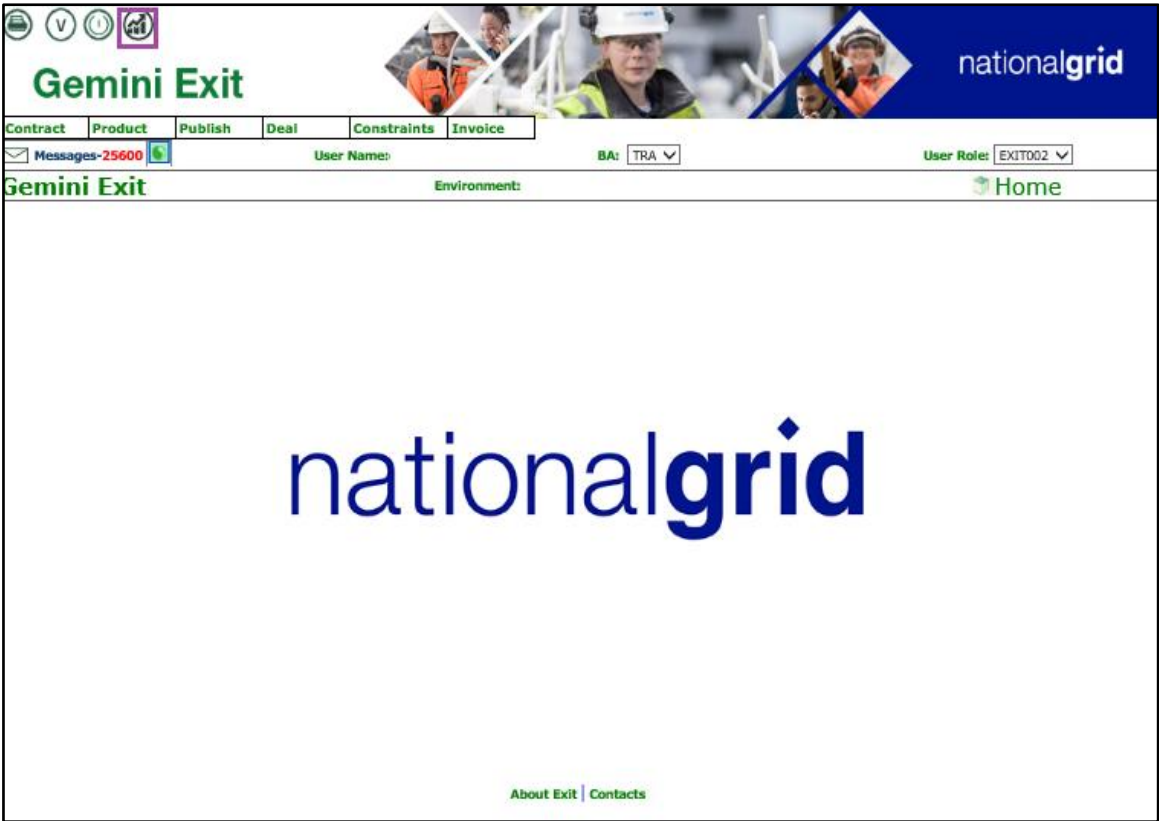
- Entitlement Vs Nomination
- BA Hourly Scheduled Balance
- Hourly LinePack
- SAP

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

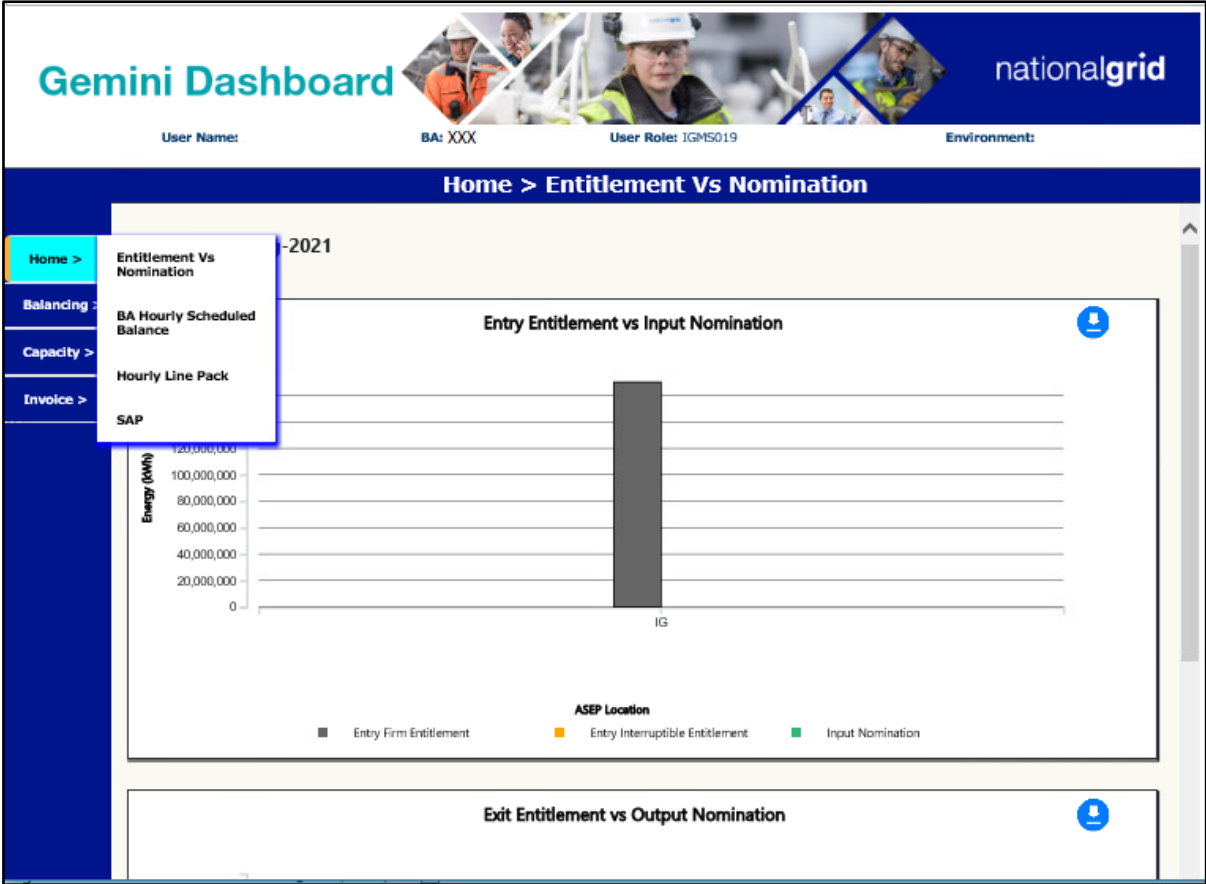
The figure below indicates the new Dashboard icon on the Gemini Home Screen



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

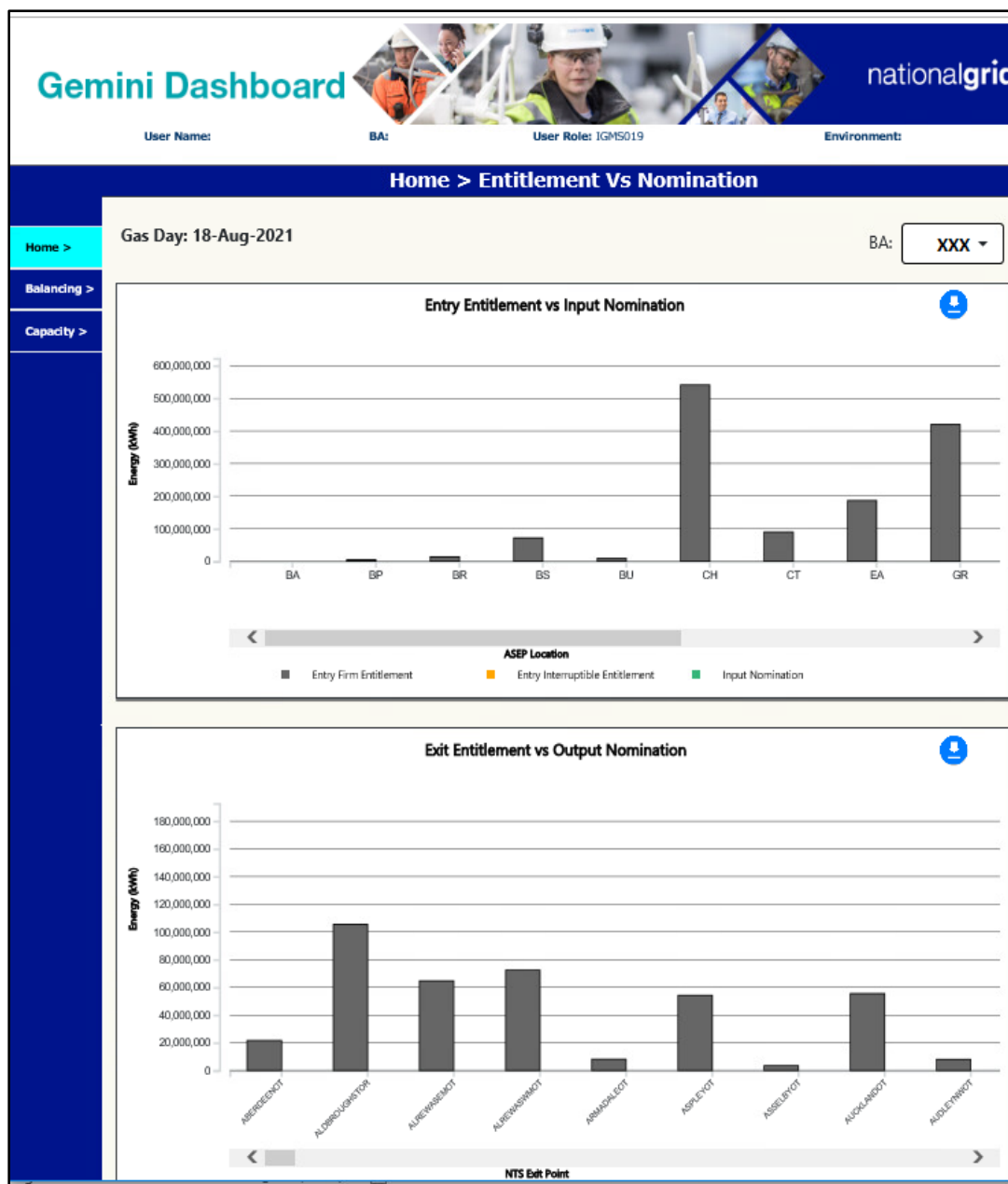
Gemini Dashboard Home: Entitlement Vs Nomination displays the following charts:

- 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

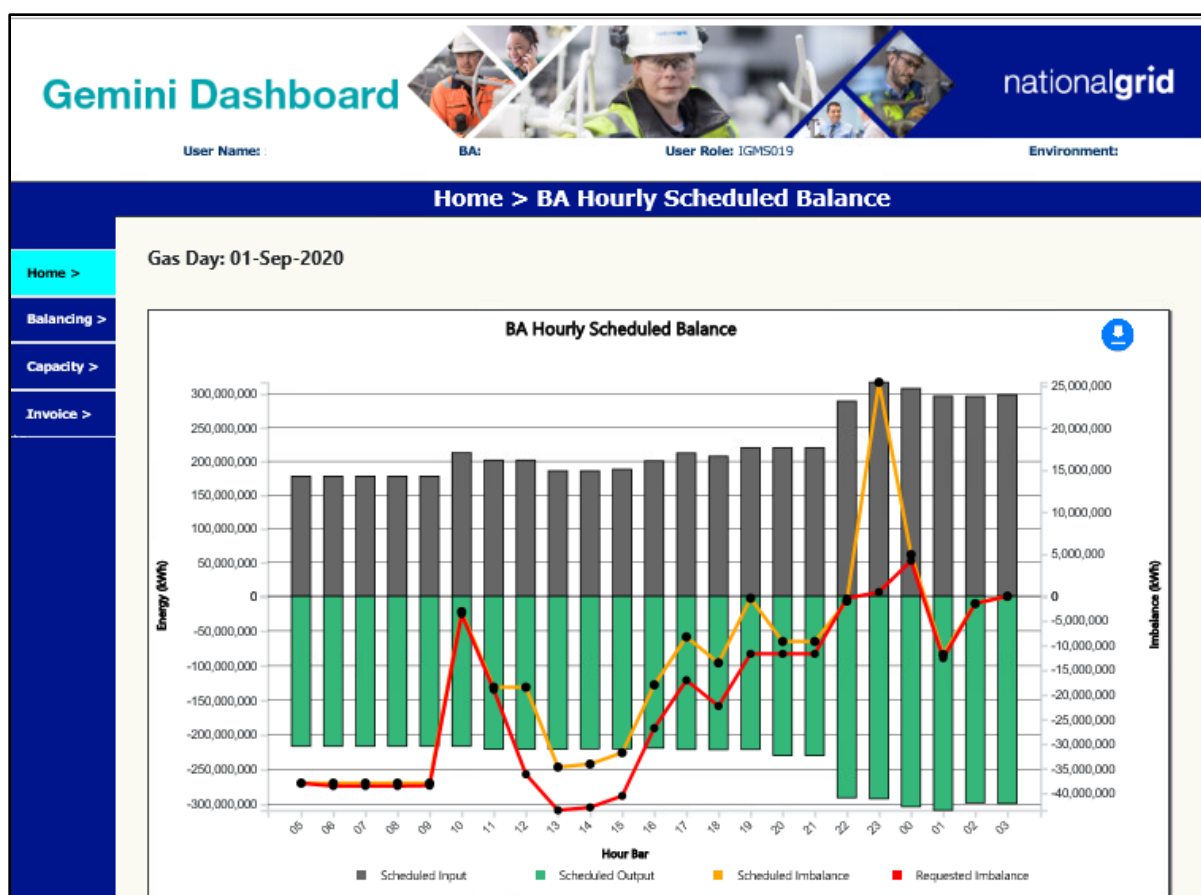
Gemini Dashboard Home: BA Hourly Scheduled Balance displays the following charts

- 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



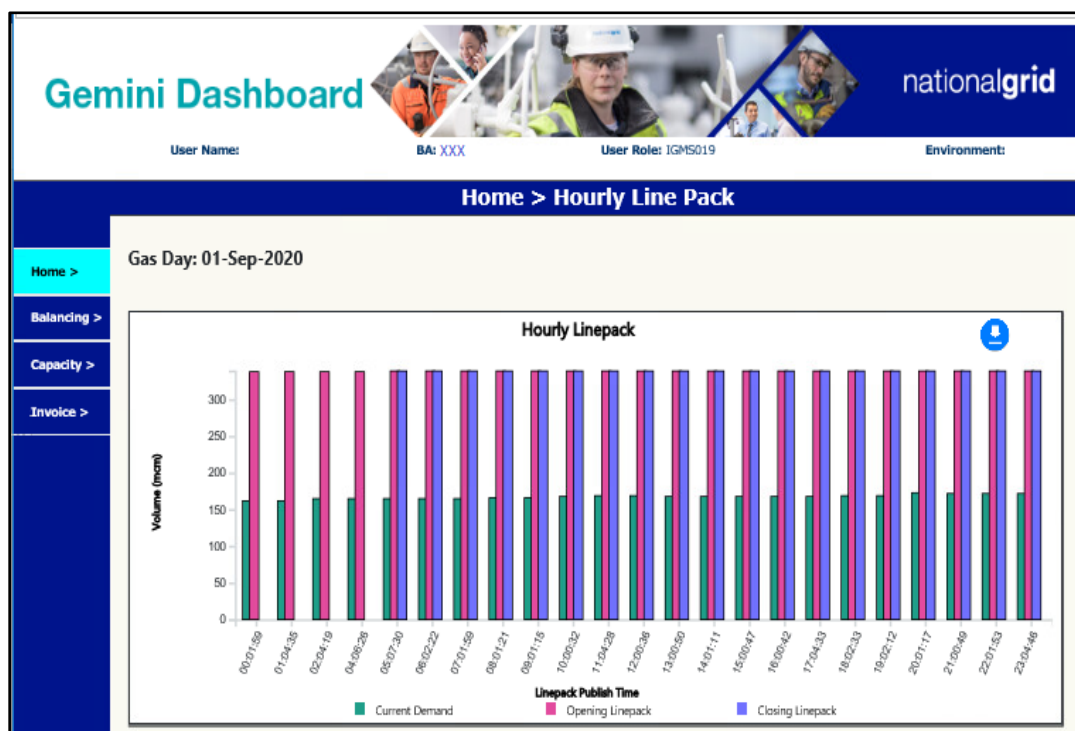
3.3 Gemini Dashboard Home: Hourly Linepack

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	<p>Left axis: Linepack Volume (mcm)</p> <p>Right axis: Price (p/kWh)</p>	<p>Columns:</p> <ul style="list-style-type: none"> • Current Demand • Opening Linepack • Closing Linepack • Target Linepack <p>Lines:</p> <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



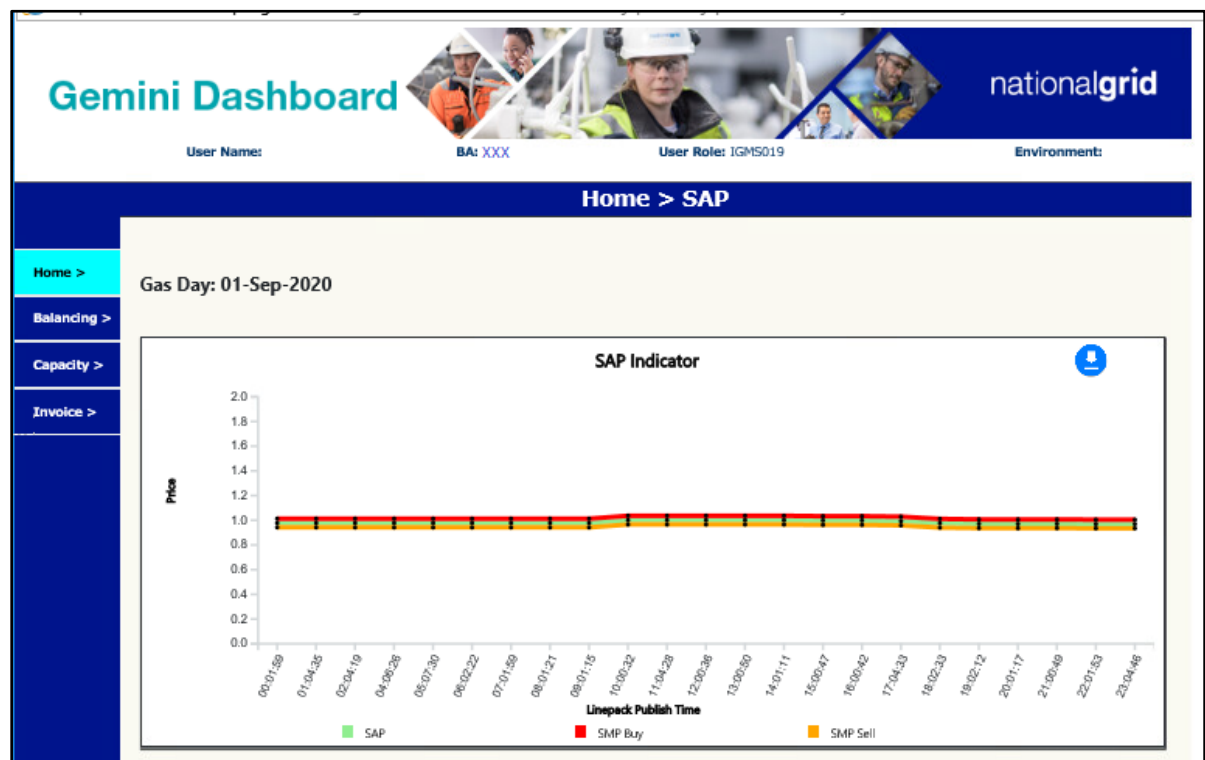
3.4 Gemini Dashboard Home: SAP

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

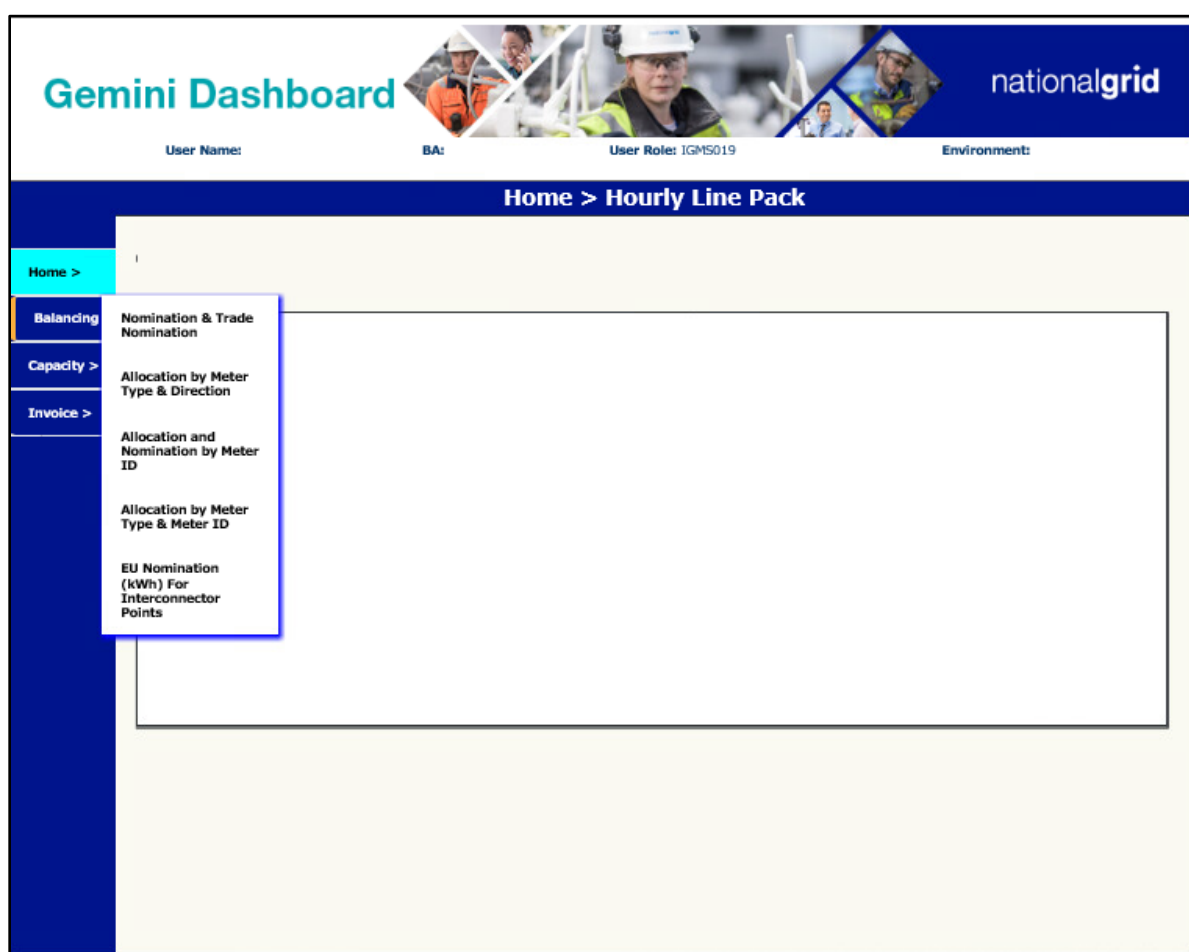
From the Dashboard Home Screen, the user can access the Dashboard Balancing Screen using the navigation menu on the left. This screen will give facility to user to select a date range using the slider and view charts for the selected range.

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

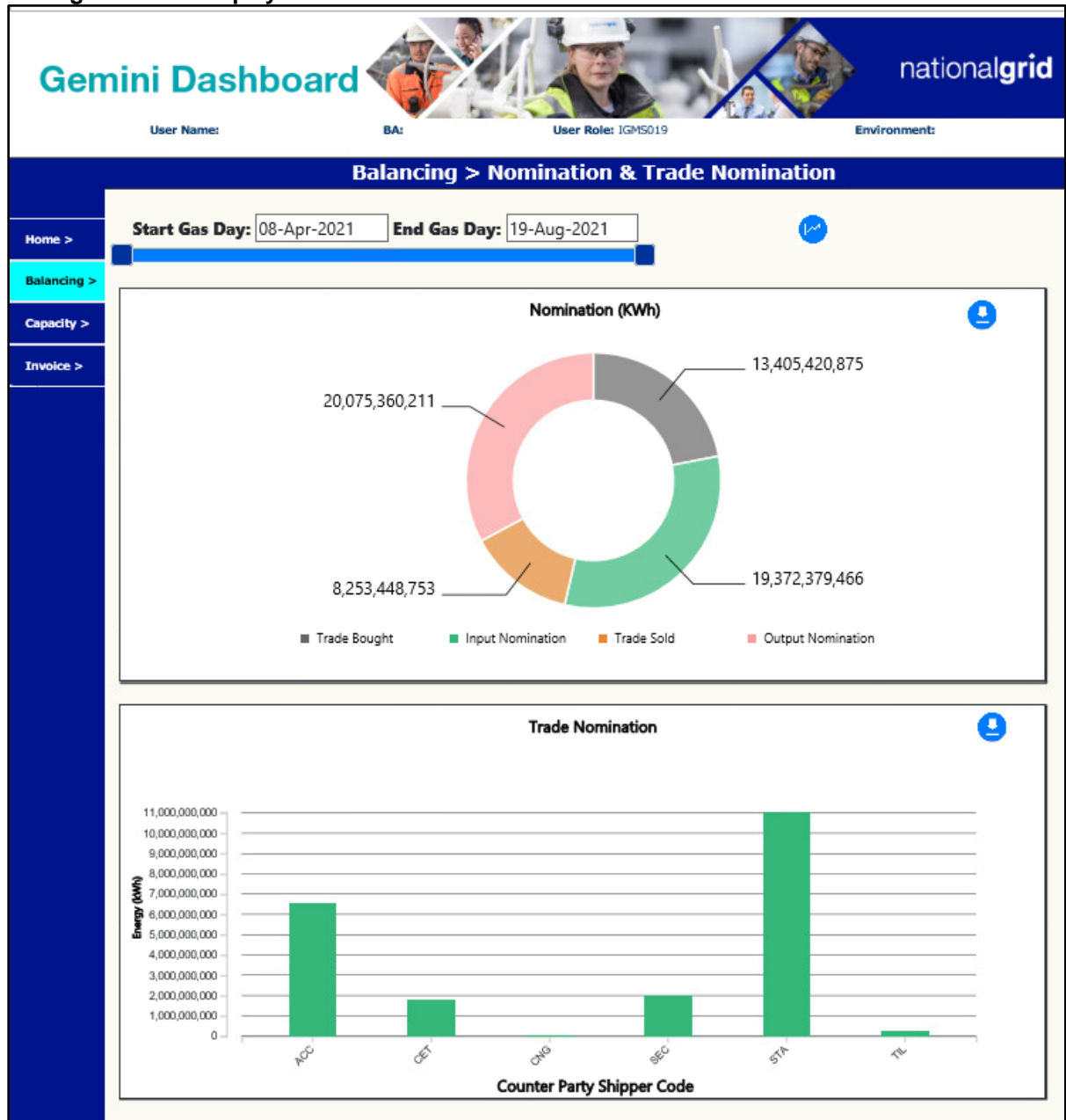
- Nomination
- Trade Nomination

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

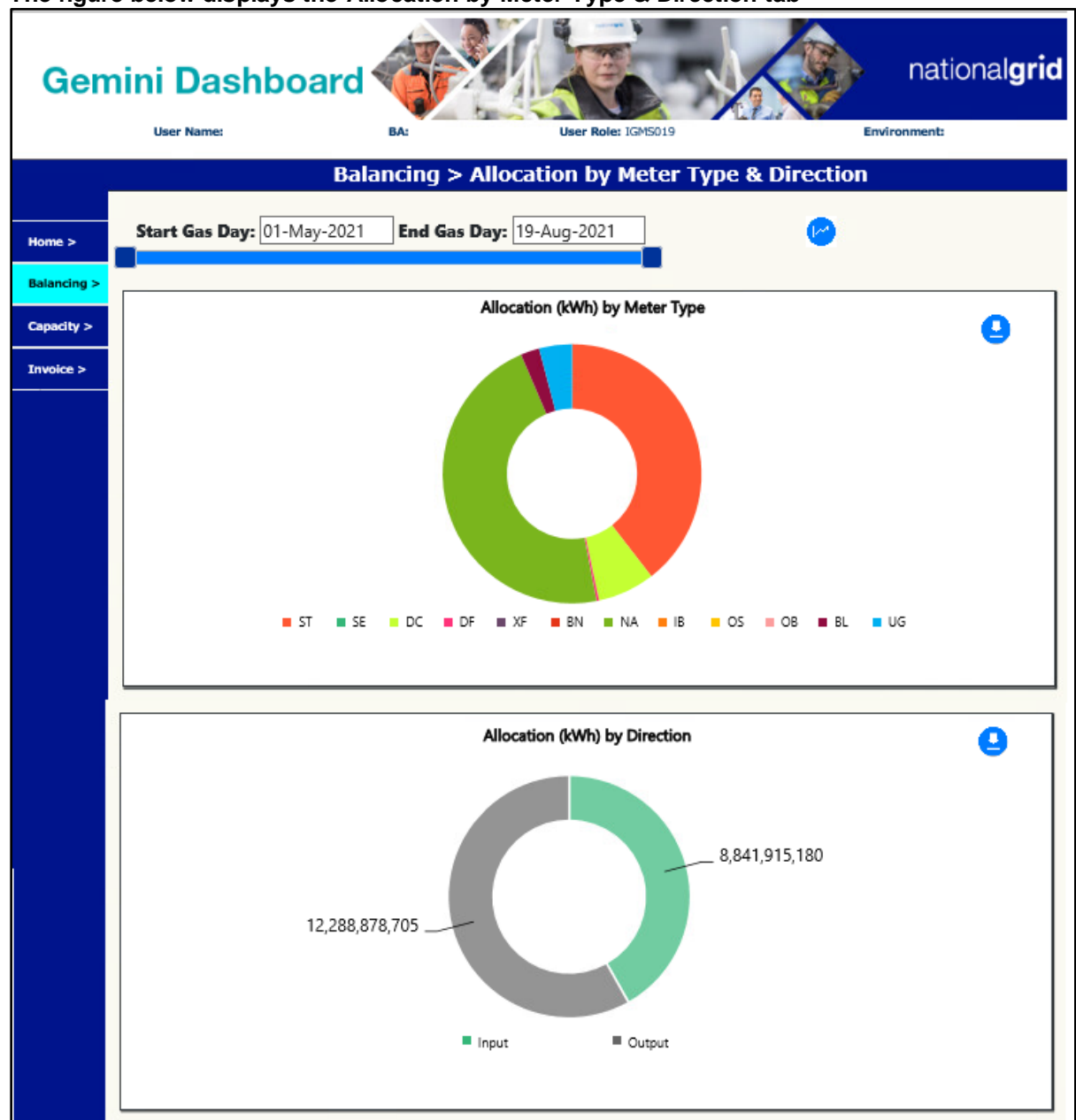
Gemini Dashboard Balancing: Allocation by Meter Type & Direction dashboard displays

- 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

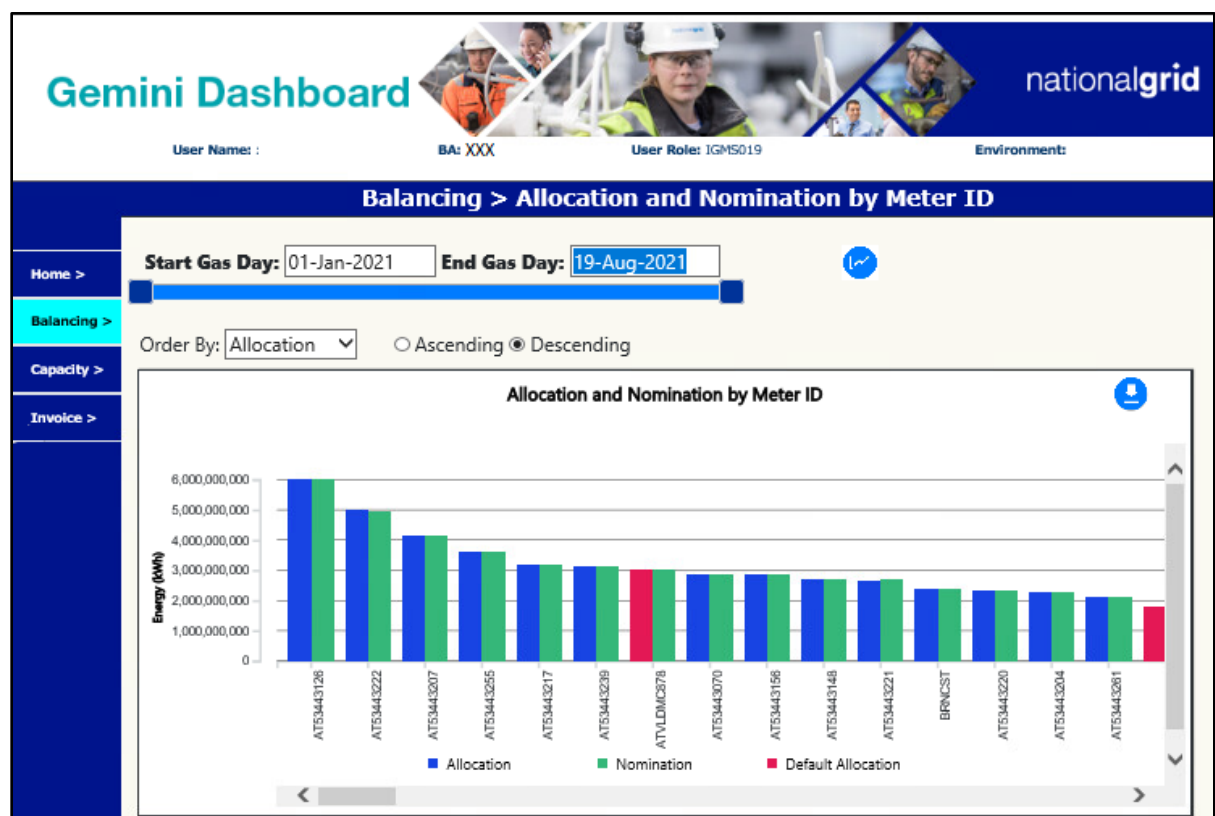


4.3 Gemini Dashboard Balancing: Allocation and Nomination Details by Meter ID Screen

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

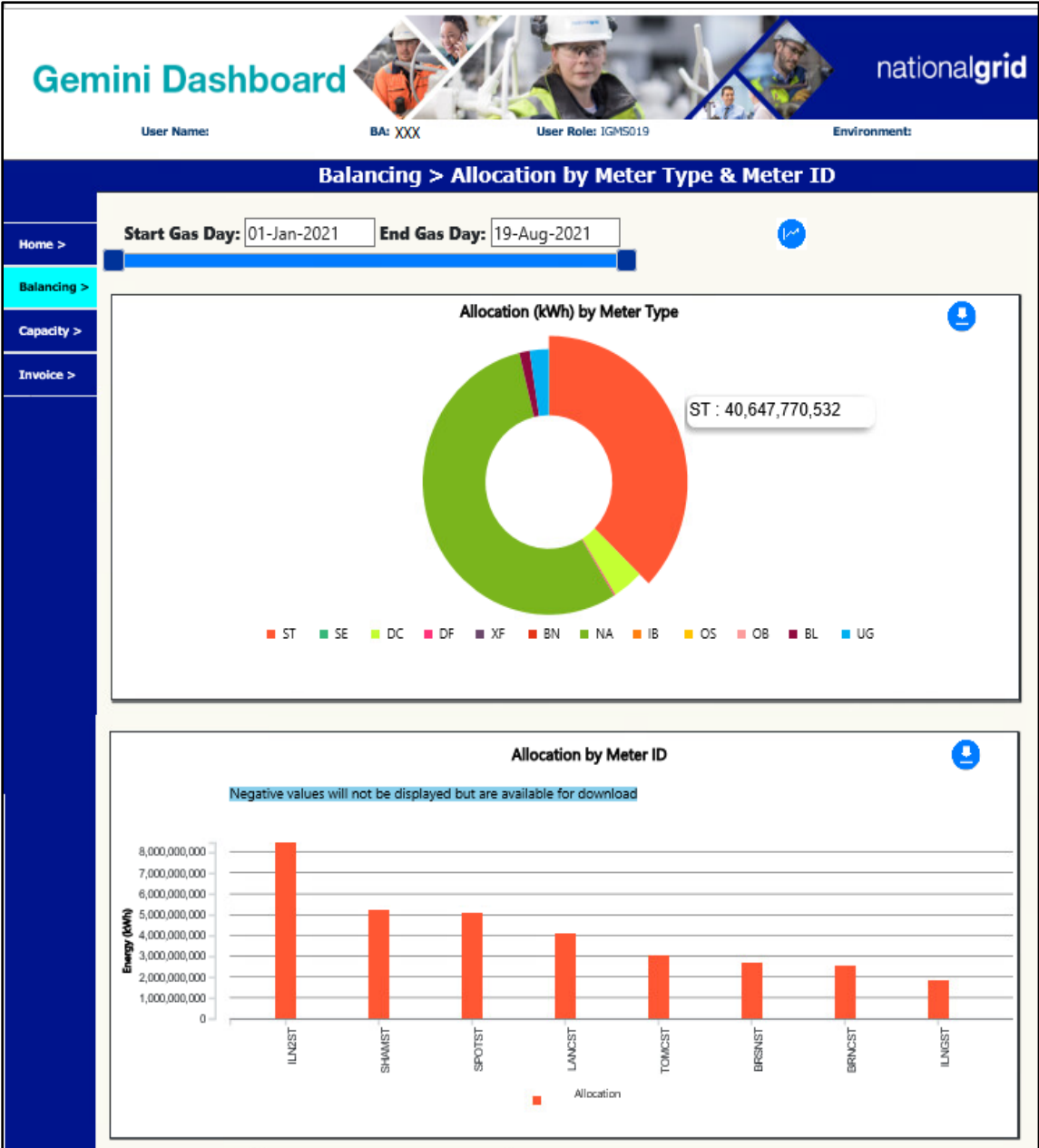
- Allocation by Meter Type
- Allocation by Meter ID

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

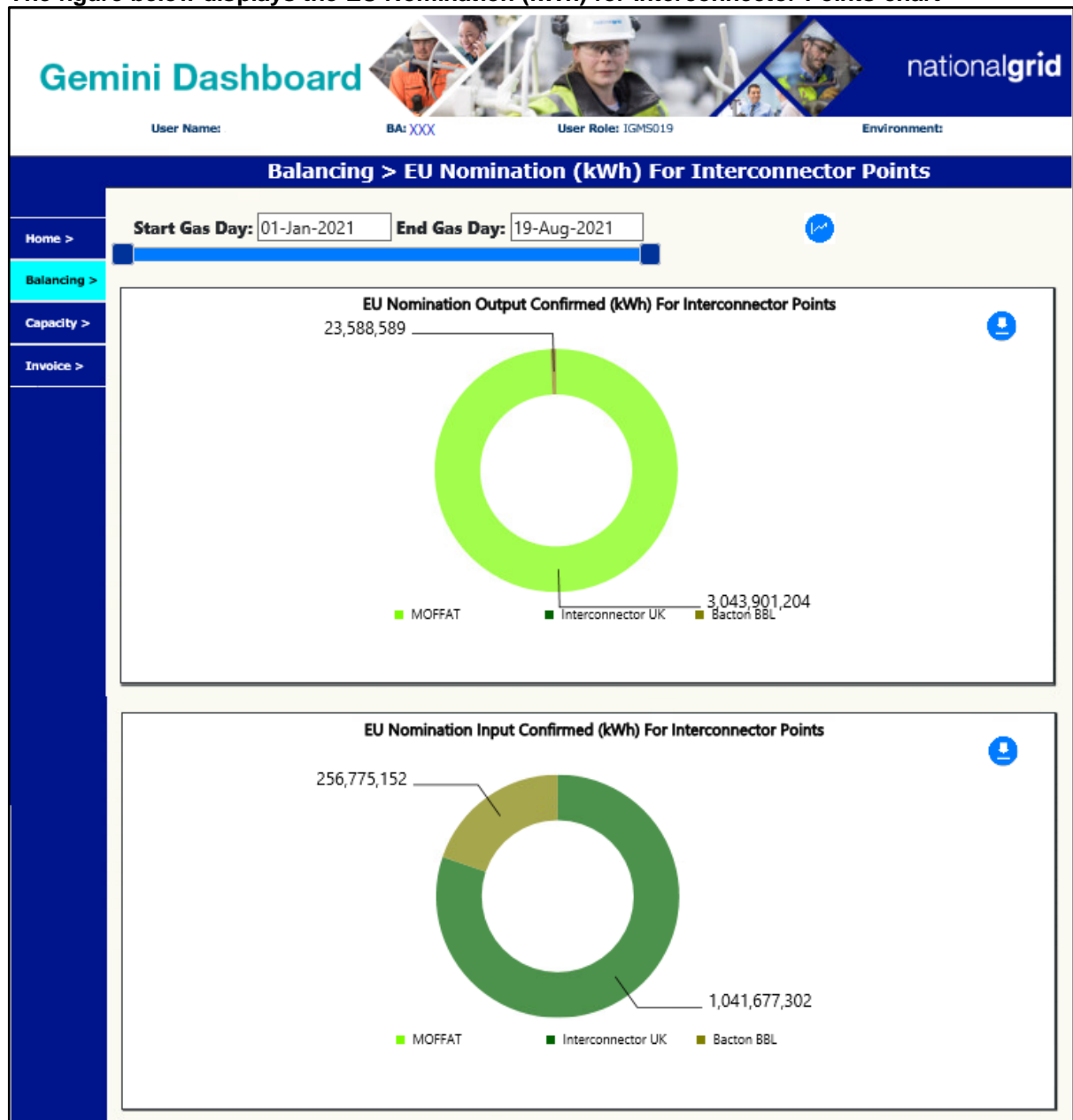
Gemini Dashboard Balancing: EU Nomination (kWh) for Interconnector Points displays

- 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

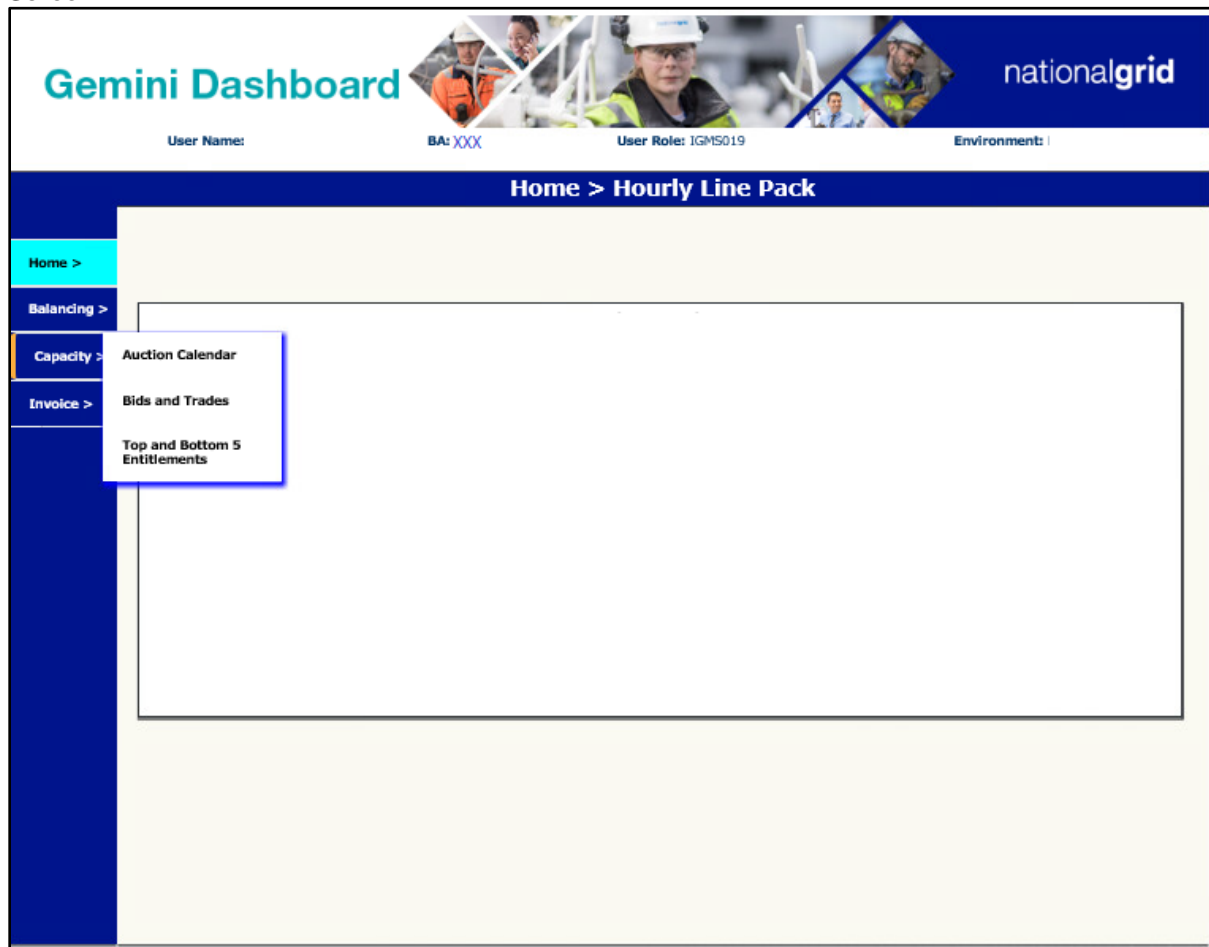
From the Dashboard Home Screen, the user can access the Dashboard Capacity Screen using the navigation menu on the left.

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

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

Capacity > Auction Calendar

Home >
Balancing >
Capacity >
Invoice >

Gas Day: 19-Aug-2021

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

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

Capacity > Auction Calendar

Home >
Balancing >
Capacity >
Invoice >

Gas Day: 19-Aug-2021

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


Home >

Balancing >

Capacity >


Invoice >

Gas Day: 19-Aug-2021

Auction Calendar


Within-Day	Day-Ahead	Monthly	Quarterly	Yearly
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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

Home >

Balancing >

Capacity >

Invoice >

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

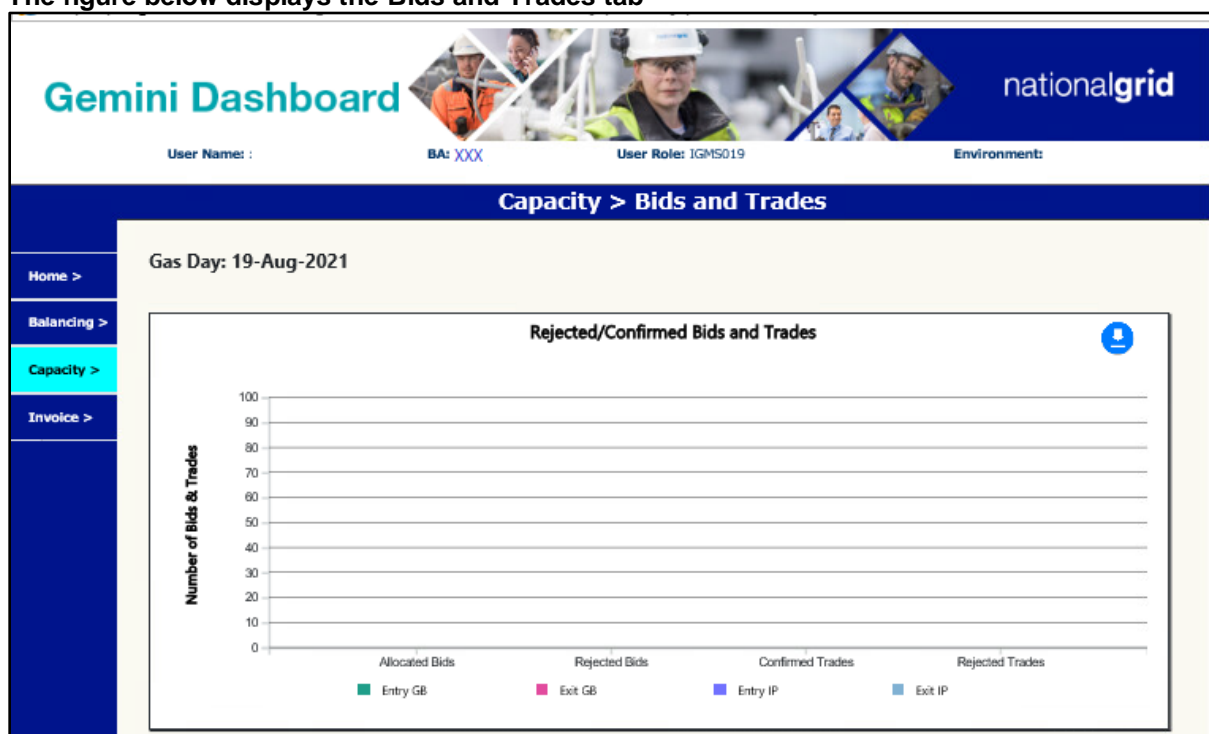
Gemini Dashboard Capacity: Bids and Trades displays

- 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

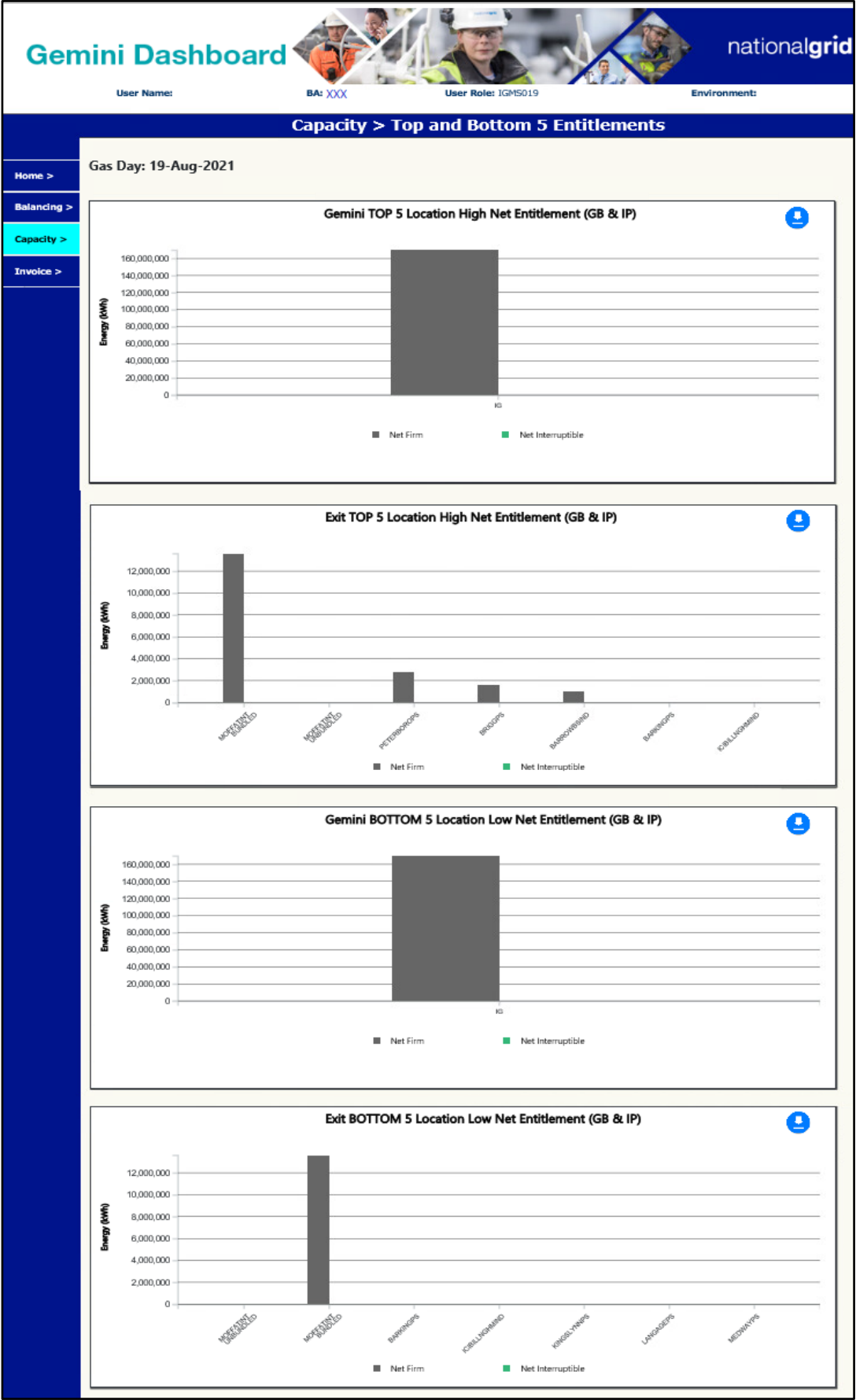
Gemini Dashboard Capacity: Top and Bottom 5 Entitlements displays

- 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



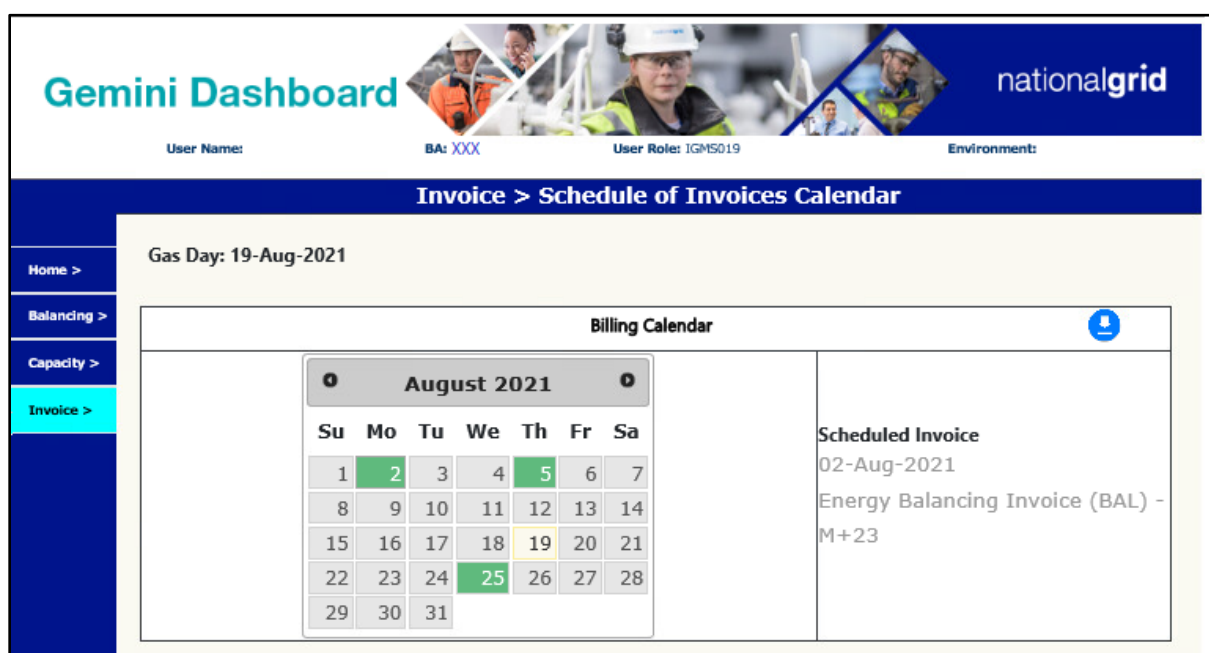
6 Gemini Dashboard Invoice Screen

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 the 'Report Option' dialog box. Callout 2 points to the 'Location' dropdown menu. Callout 4 points to the 'Location' column header in the bid table. Callout 5 points to the 'Location' column header in the Excel report table.

Bid Information

BA Code*: XXXX BA Abbr. Name*: XXXX XXXX BA Name*: XXXX XXXX XXXX Product*: ENTRY CAPACITY FIRM PRIMARY

Method of Sale*: DADSEC Transaction Period*: 01-Apr-2017 to 31-Mar-2018 Bid Window Period*: D-7 05:00:00 to D-1 01:00:00

Location*: BU CB CH Gas Day From*: 01-Apr-2017 To*: 31-Mar-2018 Bid Status*: --All-- Allocated Exercised

Bid 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	

Report Option Dialog:

Please select the report option

☐ Excel ☐ CSV ☐ Formatted

Close

Total: Generate Report

The figure below displays a sample Excel report:

Callout 5 points to the 'Location' column header in the Excel report table.

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	DADSEC	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	DADSEC	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:

Callout 3 points to the 'Clearing Price(p/kWh/day)' column in the continuation of the Excel report table.

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	XXXBIIIPDADSECUC34033
0.0059000	5:00	Unbundled	ALL			30507448	XXXBIIIPDADSECUC34061

The figure below displays a sample CSV report:

Callout 3 points to the 'Location' column header and callout 5 points to the 'Location' column header in the CSV report table.

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	DADSEC	01-Apr-2019 to 31-Mar-2020	BU	02-May-2019 to 02-May-2019	XXX	14961624	14961624	14961624	0.0059000	0.0059000	5:00	Unbundled	ALL			30507227	XXXBIIIPDADSECUC34033
ENTRY CAPACITY FIRM PRIMARY	DADSEC	01-Apr-2019 to 31-Mar-2020	MF	03-May-2019 to 03-May-2019	XXX	14961624	14961624	14961624	0.0059000	0.0059000	5:00	Unbundled	ALL			30507448	XXXBIIIPDADSECUC34061

The figure below displays a sample formatted report:

[illegible]

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:

Bid Information Detail Report

BA Code: XXX BA Abbr. Name: XXXX XXX BA Name: XXX XXXX XXXXX

Location*: AB AL AV BA BI

Bid Status*: Allocated Exercised Invoiced

Period From: 02-Mar-2019 Period To: 20-Apr-2019

Generate Report **Clear**

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 FIRM PRIMA DQSEC	ST		01-Apr-2017 to 31-Mar-2017	01-08-45:00 to 01-08-15:00:00				BU	XXX
ENTRY CAPACITY FIRM PRIMA QSEC	LT		01-Oct-2017 to 30-Sep-2018	28-Sep-2018 08:30:00 to 09-Oct-2018 17:00:00				BU	XXX
ENTRY CAPACITY FIRM PRIMA RQSEC	LT		01-Oct-2018 to 30-Sep-2019	23-Jul-2019 09:00:00 to 23-Jul-2019 17:00:00				AV	XXX
ENTRY CAPACITY FIRM PRIMA DQSEC	ST		01-Apr-2017 to 31-Mar-2017	01-08-45:00 to 01-08-15:00:00				BU	XXX
ENTRY CAPACITY FIRM PRIMA DQSEC	ST		01-Apr-2018 to 31-Mar-2019					BI	XXX
ENTRY CAPACITY FIRM PRIMA DQSEC	LT		01-Oct-2019 to 30-Sep-2020					BI	XXX
ENTRY CAPACITY FIRM PRIMA ECEB	ST		08-Jul-2012 to 22-Jul-2012	08-Jul-2012 15:00:00 to 08-Jul-2012 15:30:00	ST1#101#9F	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 (kWh)	Allocated Capacity (kWh)	Entitlement (kWh)	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		P0	0.19
01-Oct-2017 to 31-Dec-20	106,067	10,000		106,067		0.0069		ALL			0.0069
01-Oct-2013 to 31-Dec-20	21980325	10,000		21980325		0.0001		ALL			0
1-Dec-17	2412250	10,000		2412250				WTH			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-2011	1100000			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	Prisma Deal ID	Bid ID
								XXXBU0000000000000001
								XXXBU00000000000032285
								XXXAV00000000000015066
								XXXBU00000000000038082
			0.18				19005128	XXXBIIP0AD5ECU48445
			0.22	1		IJK	33223861	XXXBIIPAQ5ECB102914
								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.

9 Request Information Detail Report

9.1 Overview

The “Request Information Detail Report” will provide Request Information for the Method of Sale instance(s) and the status of each of the requests (i.e. ALL, New, Withdrawn, Rejected and Allocated). The report will be available during and after closure of the relevant Request/Offer Window. For NTS Exit Flat Capacity Applications, this report will also show the indicative prices for the application instance and actual prices (for Interconnector Points Gemini will display the Legacy Actual Price (Non-IP MoS)) for the period the application is requested for. This report will separate out normal applications from the Deemed Application requests in the Enduring Annual Application Window. The users against whom the Deemed Applications are placed, will be able to view the history of any of their application quantity changes during the Enduring Annual Window or the DN Adjustment Window. Every Request will be uniquely identified in Gemini. This is a new screen.

- System: **Gemini Exit**
- Screen Path: **Home > Deal > Capture > Request Information > Request Information Detail Report**

9.2 Request Information Detail Report Screen

The figure below displays the new screen:

Gemini Exit

[Contract](#)
[Product](#)
[Publish](#)
[Deal](#)
[Constraints](#)

[Messages-441](#)

User Name:

BA: XXXX

User Role: EXIT007

Gemini Exit

Environment: You are here : Home > Deal > Capture > Request Information > Request Information Detail Report

Request Information Detail Report

BA Code:	BA Abbr. Name:	BA Name:	Available	Selected
XXX	XXX XXXX	XXX XXXX XXX	<div> <div>ABERDEENOT</div> <div>ABERNEDDPS</div> <div>AIRPRODUCTSIND</div> <div>ALDBROUGHSTOR</div> <div>ALREWASEMOT</div> </div>	<div> <div>Add</div> <div>Remove</div> </div>

Period From: 02-Mar-2019
Period To: 02-Apr-2019

Request Status:

Allocated

New

Rejected

Generate Report

Clear

The figure below displays Excel Report:

[illegible]

The figure below displays continuation of Excel Report:

Sub Transaction Period	Effective Increase/Decrease Start Date	Requested Increase/Decrease Start Date	Original Demonstration Date	Demonstration Date	DN Adjustment Request ID	DN Adjusted Original Increase By
02-May-2012 to 02-May-2013					N.A.	
01-Oct-2012 to 30-Sep-2013		01Oct/2012	01Oct/2012		N.A.	
		01Oct/2012	01Oct/2012		N.A.	
		01Oct/2011	01Oct/2011		N.A.	
01-Oct-2016 to 30-Sep-2031						

The figure below displays continuation of Excel Report:

DN Adjusted Original Increase By	DN Adjusted Revised Increase By	DN Adjusted Revised Increase By	DN Adjustment Status	Deemed Application	Request Type	Requested Capacity (In MWh or Decimals)
				N/A	Evergreen	
				N/A		
				N/A	Increase	40354
				N/A	Increase	100000
		3141585 CR		No	Increase	314158

The figure below displays continuation of Excel Report:

Maximum Required Capacity (MWh)	Minimum Required Capacity (MWh)	Allocated Capacity (MWh)	Bundled/Unbundled	Flow Start Time	Request Transfer (Flt)	Status	Reason	Request Price (\$/MWh)	Clearing Price (\$/MWh)	Bid Stage	Request Registered Timestamp
100000	10000	100000	0	6:00:00		ALL		0.1764			
3539999						ALL					
N/A	N/A	N/A		N/A	N/A	ALL					
N/A	N/A	N/A		N/A		ALL	Demo Mer				11/20/21 15:00
16398118	16398118	16398118	Bundled			ALL		0.0591	0.0591	1	

The figure below displays continuation of Excel Report:

Maximum Required Capacity (kVA)	Minimum Required Capacity (kVA)	Allocated Capacity (kVA)	Bundled	Unbundled	Flow Start Time	Request Transfer ID	Status	Reason Request Price (\$/kW)	Clearing Point (kW)	Bid Stage	Registered	Tenured	Acquired	Prisma Deal ID	Request ID	D Transverse Request ID
100000	N/A	60000			6:00:00		ALL	0.084							000AYONMOUTHINDAGCDE	000AYONMOUTHINDAGCDE
200000	N/A	0					VTH								000ABPREDENTIALETCN	000ABPREDENTIALETCN
N/A	N/A					N/A	N/A								000ABPDIDENTIALETCN00	000ABPDIDENTIALETCN00
N/A	N/A					N/A	N/A								000BAPPOVNSINDIAFELEC	000BAPPOVNSINDIAFELEC
N/A	N/A						ALL	Demo Test							000BAPPOVNSINDIAFELEC	000BAPPOVNSINDIAFELEC
							VTH								000AUCLANDTIAFELEC	000AUCLANDTIAFELEC
1636978	1636978	1636978					ALL	0.056	0.056						000GALVESTONTIAFELEC	000GALVESTONTIAFELEC
			Pendlet												000GALVESTONTIAFELEC	000GALVESTONTIAFELEC

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

1	User can view a new screen at Gemini Exit level, to retrieve request data for a specified date range for all Product types, MOS.
2	User can generate report upon the basis of Period from and Period To, Location(s) and Request Status.
3	User can view Excel report on clicking of Generate Report button on Request 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:

Trade Details

Product Type*: ENTRY CAPACITY Product Category*: CAPACITY

Service Type*: INTERRUPTIBLE

BA: Location*: --ALL--

Period From*: 02-Mar-2019 Period To*: 02-May-2019

Trade Reference: Bid ID:

Query Clear

Cancellation Time: 0

Select	Location	Selling BA	Buying BA	Period From	Period To	Trade Qty(kWh)	Trade Price (p/kWh)	Time Of Registration	Trade Reference	Status	Action
<input type="radio"/>	IG	XXX	XXX	15-Mar-2019	15-Mar-2019	18,932,387		16-Mar-2019 00:38:14	1201268 WTH		

Generate Report Add Withdraw Confirm Reject View

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 Referend	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 displays the Gemini Meters screen. The top navigation bar includes the Gemini logo, a set of icons, and the nationalgrid logo. Below this is a tabbed interface with tabs for Product, Trade, Deal, Constraints, Meter Details (selected), Nominations, OCM, Measurements, and Allocations. A Messages-139 notification is visible. The user interface shows the user's name, BA, and user role. The breadcrumb trail indicates the path: Home > Meter Details > Meters > Meters. The main content area is titled 'Meters' and contains search filters: Meter ID, Meter Type (dropdown), Period From, Period To, and Active Indicator (radio buttons for Yes, No, All). A 'Sort By' dropdown menu is open, showing options: Effective Start Date, Effective End Date, Meter ID, and Meter Name. A 'Query' button and a 'Clear' button are also present. A 'Relationships' link is at the bottom right. Three callout boxes are present: '1, 2' points to the 'Sort By' dropdown, '3' points to the 'Descending' radio button, and another '3' points to the 'Query' button.

Gemini nationalgrid

Product Trade Deal Constraints Meter Details Nominations OCM Measurements Allocations

Messages-139 User Name: BA: XXXX User Role: JGMS019

GEMINI Environment: You are here : Home > Meter Details > Meters > Meters Meter Details

Meters

Meter ID: Meter Types: --Select-- Active Indicator: ☐ Yes ☐ No ☒ All

Period From: Period To:

Sort By: Effective Start Date ☐ Ascending ☒ Descending Query Clear

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

Relationships

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	xxxx	16,336,118	A		16,336,118	xxxx	16,336,118	A		16,336,118
07/03/2019	Yes	Buy BA	xxxx	10,257,485	R	NM	10,257,485	xxxx	10,257,485	A		10,257,485
07/03/2019	Yes	Buy BA	xxxx	732,678	R	NM	732,678	xxxx	732,678	A		732,678
07/03/2019	Yes	Buy BA	xxxx	732,678	R	NM	732,678	xxxx	732,678	R	NM	732,678
07/03/2019	Yes	Buy BA	xxxx	1,318,820	R	NM	1,318,820	xxxx	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. The interface includes a top navigation bar with the Gemini logo and 'nationalgrid' branding. Below this is a breadcrumb trail: 'You are here : Home > Nominations > EU Nominations > EU Nominations'. The main content area is titled 'EU Nominations' and contains a search and filter section with fields for BA (XXXX XXXX XXXX), Nomination Type (--ALL--), Start Date (02-Mar-2019), End Date (03-Jun-2020), Connection Point (--ALL--), External Account TSO EIC (--ALL--), Unit (kWh/d), and Gas Direction (--ALL--). There are also 'Sort By' and 'Ascending/Descending' options. Below the filters is a table with columns: Count 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 12 rows of data. Callout 1 points to the 'Reason Code' column, callout 2 points to the 'Status Code' column, callout 3 points to the 'Sort By' dropdown, callout 4 points to the 'Ascending/Descending' radio buttons, 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 Remove Selected: AB-AVONMOUTH BOILOFF, AL-ALDBROUGH 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		2,956,179,714

Generate Report View

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:

Allocation Details 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 XXXXX

LDZ: Available Add Remove

Selected: EA-EASTERN LDZ, EM-EAST MIDLANDS LDZ, LC-CAMPBELTOWN (IU) LDZ

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

Generate Report View Cancel

1

</

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 screen. Callout 1 points to the 'Sort By' dropdown menu, which is currently set to 'Activity Number'. Callout 2 points to the 'Ascending' radio button. Callout 3 points to the 'Counter Party BA' and 'Trade/Non-Trade' columns in the table. Callout 4 points to the 'Activity Number' column. Callout 5 points to the 'Counterparty BA' and 'Trade / Non-Trade' columns in the 'Nominations on System' report.

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

Number of activities: 113

BA Balance Energy By Zone Update

Note: For 'Allocate as Nominate' meters Requested Energy = Nominated Quantity, Scheduled Energy = Confirmed Quantity

Page 1 of 2

Nominations on System 08-Oct-2020 08:38:23

Rate Schedule: EX Start Date: 09-Oct-2020 End Date: 31-Oct-2020

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

*** END OF REPORT***

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 header includes the Gemini logo, navigation tabs (Product, Trade, Deal, Constraints, Meter Details, Nominations, OCM, Measurements, Allocations), and user information (Messages: 139, User Name, BA, User Role: JGP5019). The breadcrumb trail is 'Home > Nominations > Renominations'. The main content area has a 'Renominations' tab and a search/filter section with fields for BA, Rate Schedule, View By, Search, and By. A 'Sort By' dropdown is highlighted with callout 1, 2, and 3. The table below shows the query results with columns for 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. Callout 4 points to the 'Counter Party BA' and 'Trade/Non-Trade' columns. The bottom of the screen shows a 'Total' row and a 'Number of activities: 27' message.

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	Action
000514		XXXXXXXX	XXX	Non - Trade	05	0	E	0	A	1	N	E	V
000527		XXXXXXXX	XXX	Non - Trade	05	0	E	0	A	1	N	E	V
000572		XXXXXXXX	XXX	Non - Trade	05	0	E	0	A	1	N	E	V

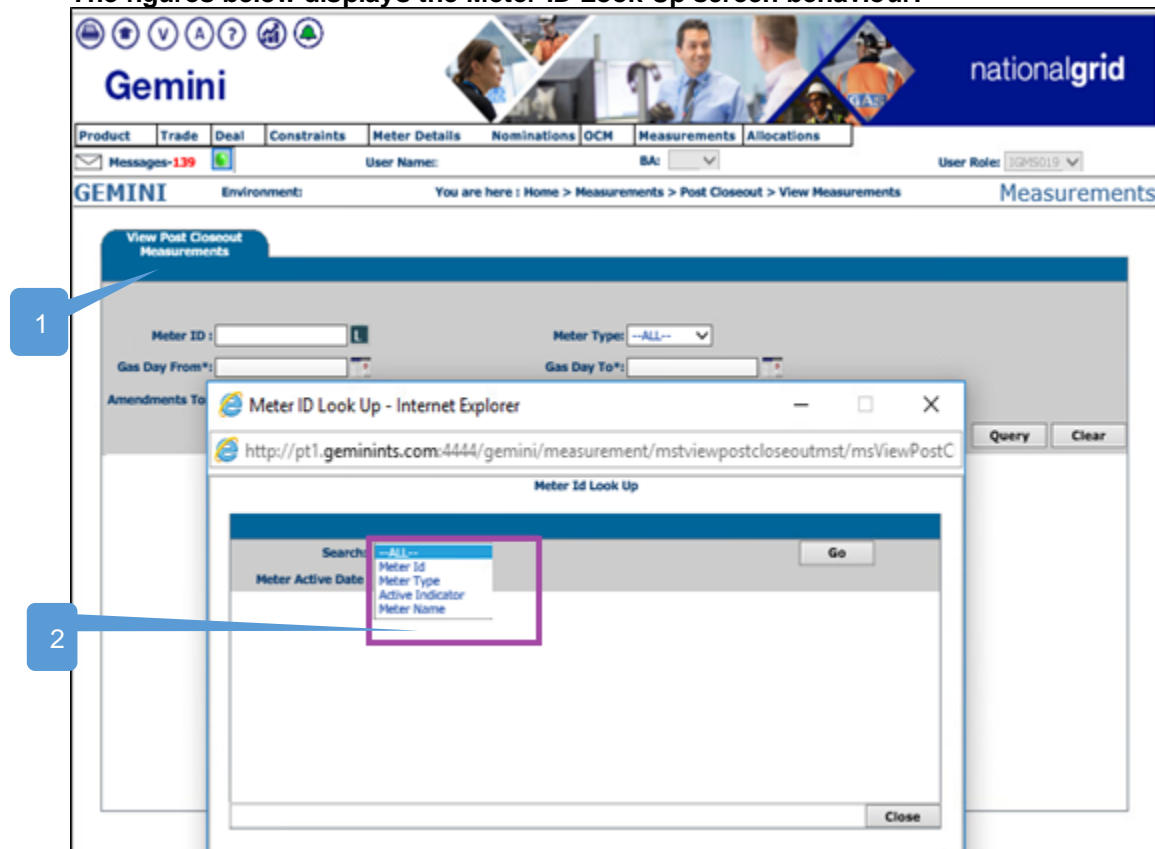
The table below describes the modifications that will be made to this screen:

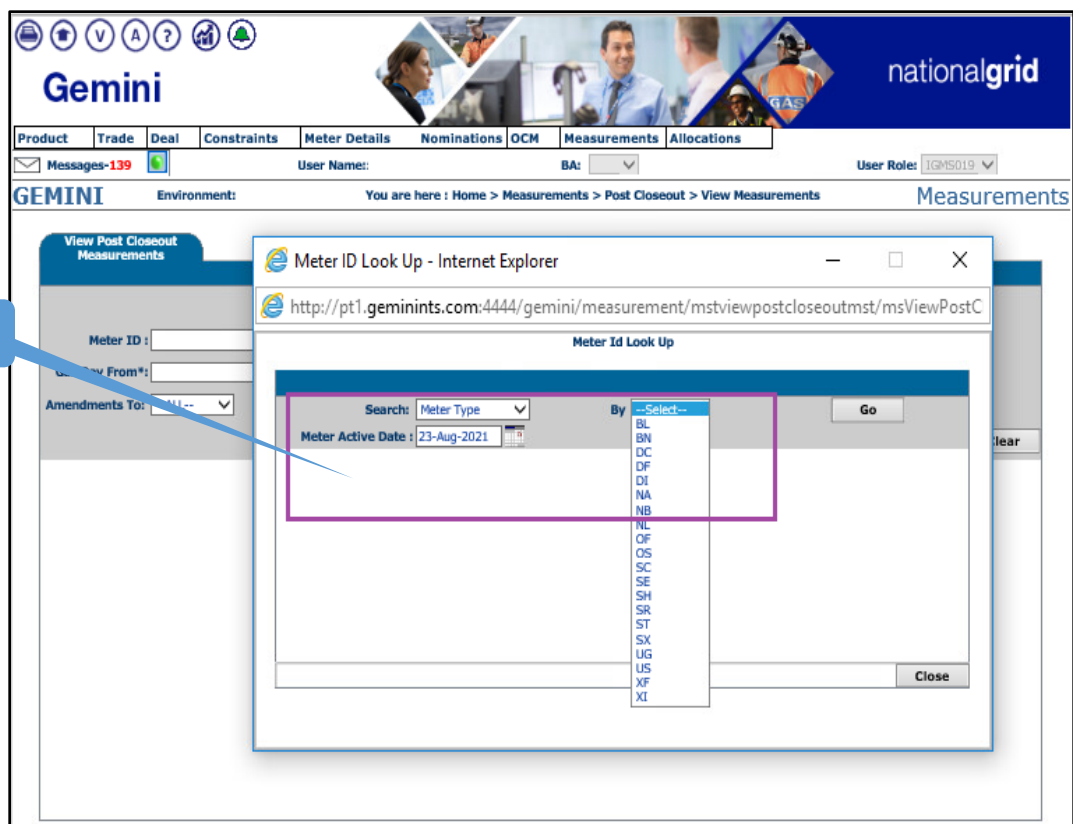
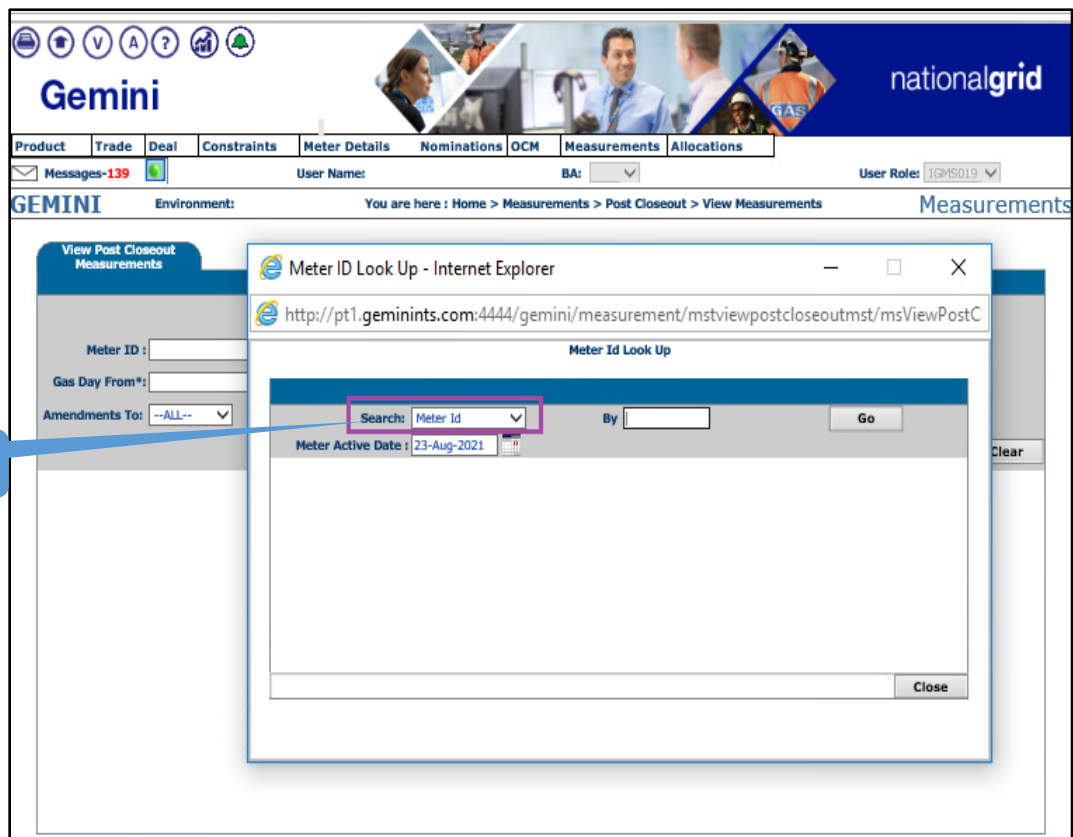
1	User can sort the query output based upon the selection from the 'Sort By' drop down.
2	User can view the list in 'Sort By' option, columns for which Sorting is applicable.
3	User can do sorting based upon 'Ascending' or 'Descending' option.
4	User can view Counter Party BA and Trade/Non-Trade as additional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

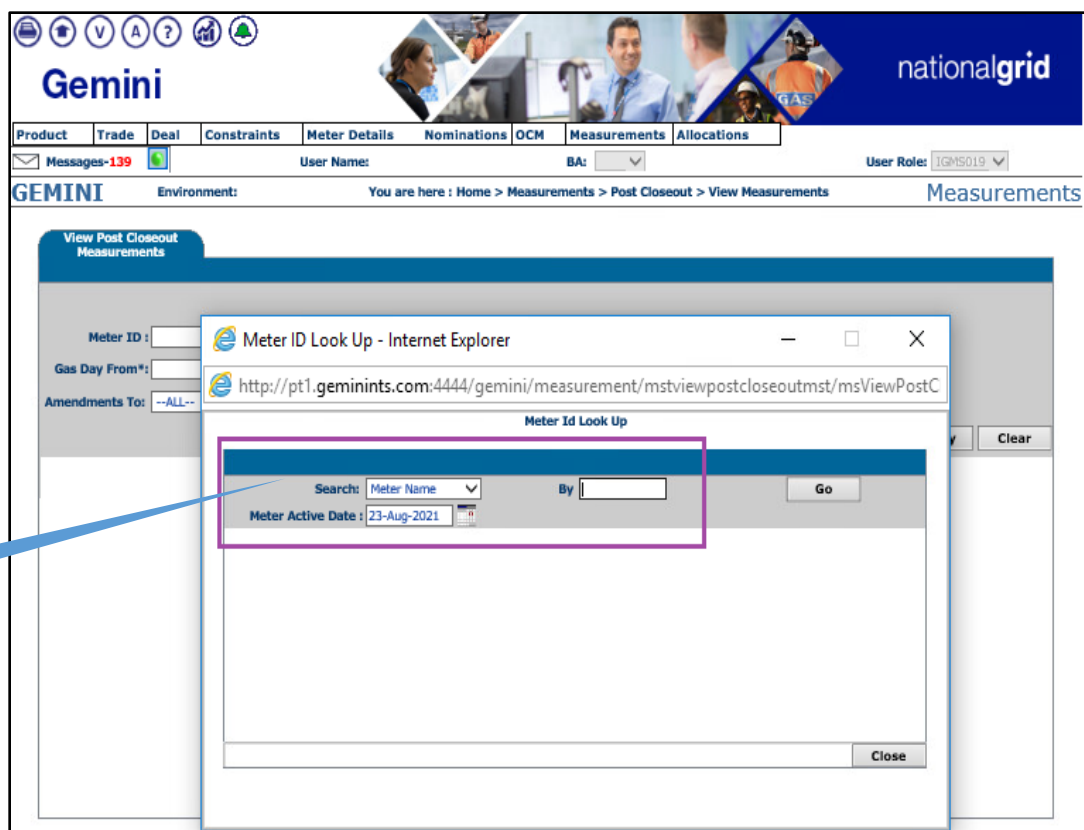
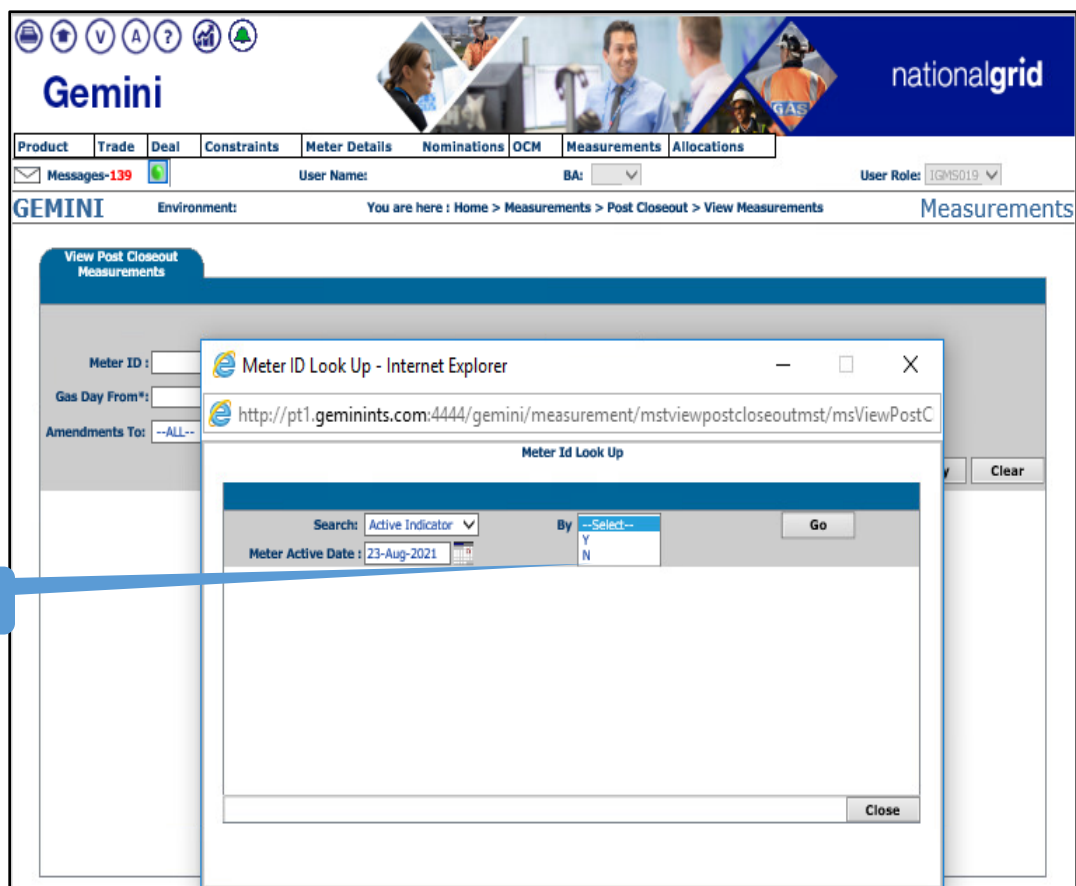
18 Meter ID Look Up

18.1 Meter ID Look Up Screen behaviour

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







The 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 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 screen. The top navigation bar includes the Gemini logo, a set of icons, and the nationalgrid logo. Below this is a menu bar with tabs: Product, Trade, Deal, Constraints, Meter Details, Nominations (selected), OCM, Measurements, and Allocations. A status bar shows Messages-139, User Name, BA, and User Role: TQM5019. The main content area has a breadcrumb trail: You are here : Home > Nominations > Balance > Business Associate Balance. The screen title is 'Business Associate Balance'. It features a 'Gas Day*' field set to '24-Aug-2021' and a 'BA' field with the value 'XXXX XXXX XXXX'. Below these are two radio buttons: 'Within Day' (selected) and 'Day Ahead'. A callout box labeled '1, 2, 3' points to these radio buttons. To the right are 'Query' and 'Clear' buttons. A callout box labeled '6' points to the 'Query' button. The main data area is currently empty.

The screenshot shows the Gemini Business Associate Balance screen. The header includes the Gemini logo, navigation icons, and the National Grid logo. The main navigation bar contains tabs for Product, Trade, Deal, Constraints, Meter Details, Nominations, OCH, Measurements, and Allocations. The breadcrumb trail reads: You are here : Home > Nominations > Balance > Business Associate Balance. The form includes a Gas Day* field set to 25-Aug-2021, a BA field with the value XXXX XXXX XXXX, and two radio buttons: Within Day and Day Ahead. The Day Ahead radio button is selected and highlighted with a red box. A red callout bubble with the number 2, 4 points to this box. To the right of the radio buttons are Query and Clear buttons, with a red callout bubble containing the number 6 pointing to them.

The screenshot shows the Gemini Business Associate Balance screen. The header and navigation bar are identical to the first screenshot. The breadcrumb trail is the same. The Gas Day* field is set to 20-Aug-2021, and the BA field contains XXXX XXXX XXXX. The Within Day radio button is selected and highlighted with a red box. A red callout bubble with the number 5 points to this box. The Day Ahead radio button is unselected. The Query and Clear buttons are present on the right, with a red callout bubble containing the number 6 pointing to them.

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:

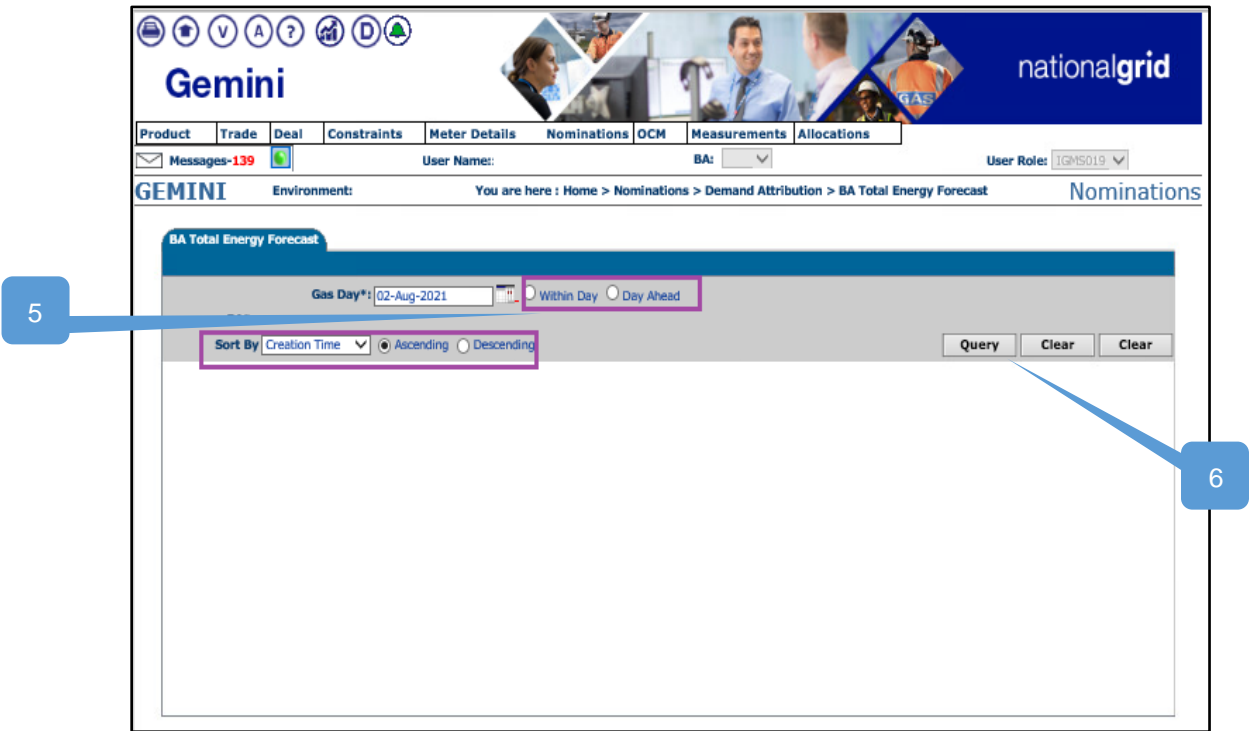
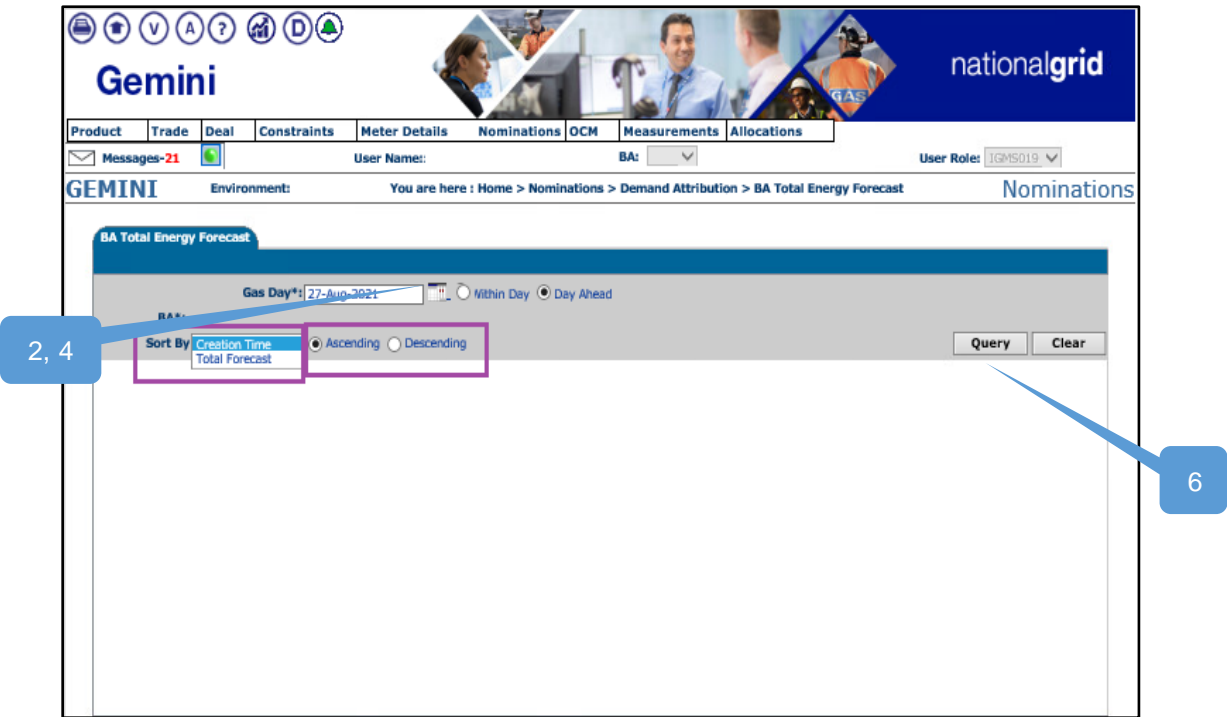
- ✓ Provision of 'Within Day' and 'Day Ahead' option.
- ✓ Provision of Sorting facility.

- 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 screenshot shows the Gemini BA Total Energy Forecast screen. The interface includes a top navigation bar with the Gemini logo and a 'nationalgrid' logo. Below this is a tabbed menu with options: Product, Trade, Deal, Constraints, Meter Details, Nominations (selected), OCM, Measurements, and Allocations. A status bar shows 'Messages: 21', 'User Name:', 'BA:', and 'User Roles: TGM5019'. The main content area is titled 'BA Total Energy Forecast' and contains a 'Gas Day*' dropdown set to '27-Aug-2021', radio buttons for 'Within Day' (selected) and 'Day Ahead', a 'Sort By' dropdown with 'Creation Time' and 'Total Forecast' options, radio buttons for 'Ascending' (selected) and 'Descending', and 'Query' and 'Clear' buttons. Callouts 1, 2, and 3 point to the top navigation bar. Callouts 7, 8, and 9 point to the 'Sort By' dropdown. Callout 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 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

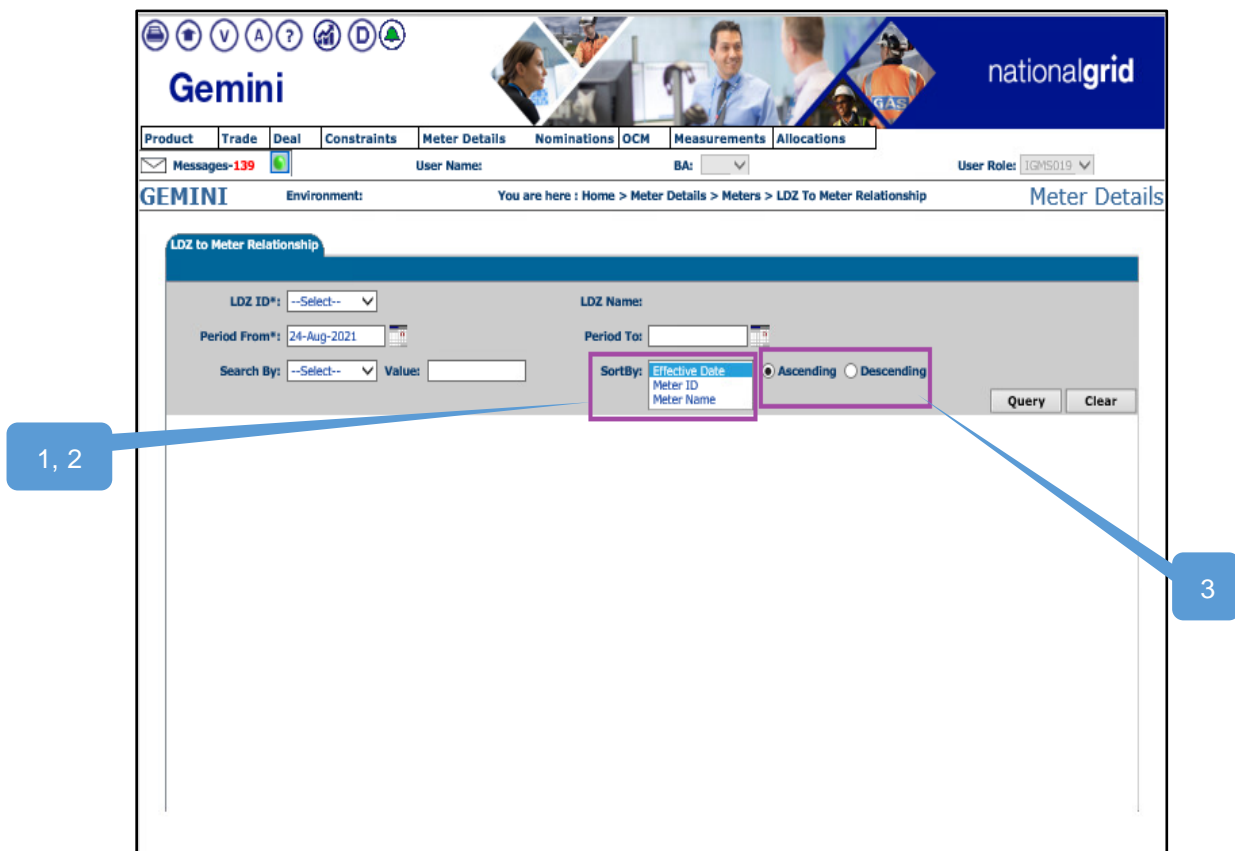
This screen provides the relationship between LDZ and Meter ID. This screen will be modified in the following ways:

- ✓ 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

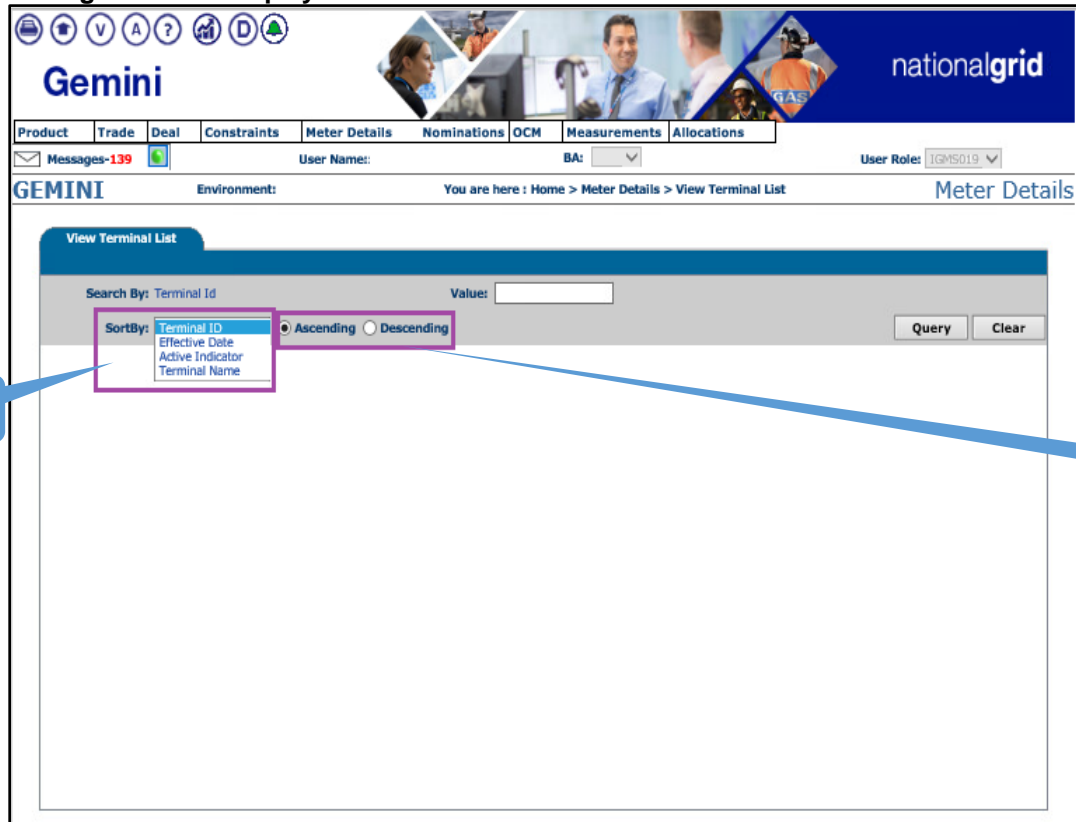
This screen displays the Terminal List. This screen will be modified in the following ways:

- ✓ 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

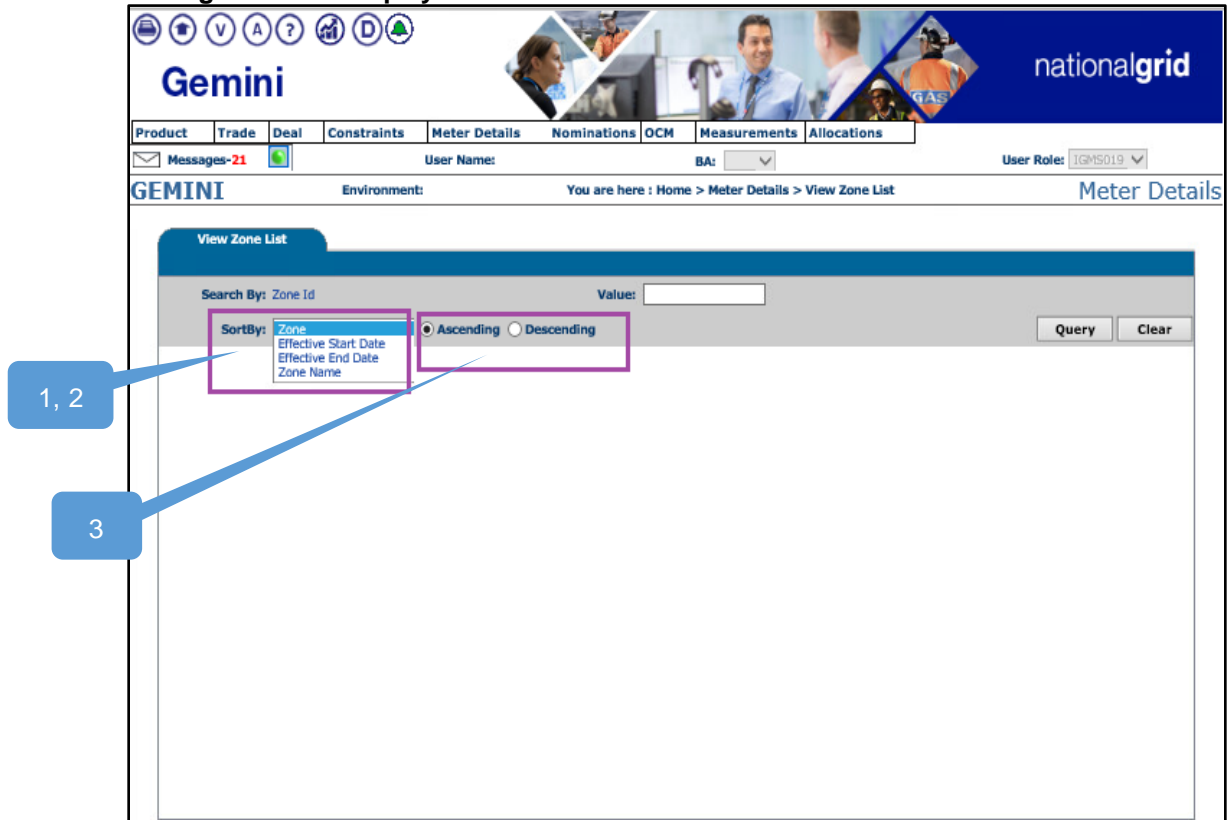
This screen displays the Zone List. This screen will be modified in the following ways:

- ✓ 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 screenshot shows the Gemini Nominations Activities screen. The header includes the Gemini logo, navigation tabs (Product, Trade, Deal, Constraints, Meter Details, Nominations, OCM, Measurements, Allocations), and user information (User Name, BA, User Role). The main content area is titled 'Activities' and contains a form for filtering and sorting data. The form includes fields for BA* (BUS - BRITISH GAS TRADING LIMITED (BG TRADING)), Rate Schedule* (dropdown), Service Id* (dropdown), Activity Number* (dropdown), and Status (Active). There is also a Search field and a By field. The 'Sort By' dropdown is highlighted with a blue box and labeled '1, 2'. The 'Ascending' and 'Descending' radio buttons are highlighted with a blue box and labeled '3'. The 'Query', 'Generate Report', and 'Clear' buttons are also visible.

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