

NEOpoint is used to view and analyse National Electricity Market (NEM) data. NEOpoint has been updated to support the introduction of IESS (Integrating Energy Storage Systems) in the NEM,. This document describes key changes made as part of the NEOpoint update.

## 1 BACKGROUND

On 3 June 2024 the Integrating Energy Storage Systems (IESS) final rule change commences, supported by market system changes implemented by AEMO. These market system changes impact the data published by AEMO and viewed via NEOpoint. Some key changes are:

- Units can now register as bidirectional units (BDUs) with Dispatch Type 'BIDIRECTIONAL'. Previously units were registered as either 'GENERATOR' or 'LOAD'.
- All bids are given a direction, either 'GEN', 'LOAD', or 'BIDIRECTIONAL'.

The resultant updates in NEOpoint are discussed in the following sections.

## 2 NEOpoint Update

This section describes the key NEOpoint updates associated with IESS.

### 2.1 'BIDIRECTIONAL' Dispatch Type

A bidirectional unit can generate or consume. It is represented in the NEM data with a single DUID (Dispatchable Unit Identifier) and a dispatch type of 'BIDIRECTIONAL'. Previously units could only be registered as 'GENERATOR' or 'LOAD'.

Data labelled in NEOpoint as 'Generation' was previously associated with units registered as 'GENERATOR'. Similarly, data labelled in NEOpoint as 'Load' was associated with units registered as 'LOAD'. With the introduction of bidirectional units:

- Data labelled in NEOpoint as 'Generation' incorporates generation from units registered as 'GENERATOR' and 'BIDIRECTIONAL'.
- Data labelled in NEOpoint as 'Load' incorporates load from units registered as 'LOAD' and 'BIDIRECTIONAL'.

Several NEOpoint reports and/or parameters have been renamed to specify whether data presented is 'Generation' or 'Load'.

### 2.2 Directional bids

Bids labelled in NEOpoint as 'Generation Bids' (or similar) were previously associated with units registered as 'GENERATOR'. Similarly, bids labelled in NEOpoint as 'Load Bids' (or similar) were associated with units registered as 'LOAD'.



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IESS introduces bidirectional units which can bid to generate and/or consume. In the energy and FCAS Regulation markets, a bidirectional unit submits separate generation and load bids (setting the bid DIRECTION to 'GEN' or 'LOAD' accordingly). In the FCAS Contingency markets, a bidirectional unit can submit bidirectional bids (setting the bid DIRECTION to 'BIDIRECTIONAL').

In NEOpoint:

- For Energy bids and for FCAS bids for Regulation services:
  - o Bids labelled in NEOpoint as 'Generation Bids' (or similar) only incorporate bids with a DIRECTION of 'GEN'. This will incorporate generation bids for units registered as 'GENERATOR' and 'BIDIRECTIONAL'.
  - o Bids labelled in NEOpoint as 'Load Bids' (or similar) only incorporate bids with a DIRECTION of 'LOAD'. This will incorporate load bids for units registered as 'LOAD' and 'BIDIRECTIONAL'.
  - o Bids labelled in NEOpoint as 'WDR Bids' (or similar) only incorporate bids with a DIRECTION of 'GEN' for units registered as 'WDR' (Wholesale Demand Response).
- For FCAS bids for Contingency services:
  - o Bids labelled in NEOpoint as 'FCAS Generation Bids' (or similar) will incorporate bids with a DIRECTION of 'GEN' AND bids with a DIRECTION of 'BIDIRECTIONAL'.
  - o Bids labelled in NEOpoint as 'FCAS Load Bids' (or similar) will incorporate bids with a DIRECTION of 'LOAD' AND bids with a DIRECTION of 'BIDIRECTIONAL'.

It should therefore be noted that the same 'BIDIRECTIONAL' bids will be incorporated into FCAS Generation and FCAS Load bidstacks for Contingency services.

## 2.3 Other Changes

Other (non IESS-related) changes incorporated in the NEOpoint update include:

- Added a separate menu item for Predispatch reports, which includes weather and Predispatch reports previously accessible from the PASA report list.
- Introduced more reports on a DUID-basis.
- Renamed 'Intermittent Generation' (and similar) to 'Non-Scheduled Generation', to reflect the definition of the NEM data called 'TOTALINTERMITTENTGENERATION'.
- 'Native Demand' calculation changed to add WDR dispatch.
- Aligned the StationNames for the storage units (batteries and pumped storage) to be the same for GEN and LOAD. Reports for storage units are now done by station rather than by DUID.
- Use of Secondary loss factor (where one applies to a unit).



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- Changes have been made to more closely align the terminology and naming used in NEOMobile and NEOpint. This has resulted in some changes to report names, and to characteristics such as station and portfolio naming, and fuel names.

A separate spreadsheet provides a map of report name changes between the previous and updated versions of NEOpint.

## 2.4 NEOpint Transition

During a short transition period, NEOpint users can continue to use the previous version of NEOpint in parallel with the NEOpint update. During the transition period NEOpint is accessible from both:

NEOpint Previous Version	Production <a href="https://www.neopoint.com.au">https://www.neopoint.com.au</a> (ie the URL is unchanged during the transition period)
NEOpint IESS Update	Pre-Production <a href="http://preprod.neopoint.com.au">http://preprod.neopoint.com.au</a>

After the transition period the NEOpint updates will be accessible in Production and the Pre-Production site will no longer be available.

During the transition period:

- NEOpint Production will be used for alerting.  
Users should continue to create and maintain alerts in Production. The alerts will be synced to the NEOpint IESS Update by IES when the NEOpint IESS update becomes Production.
- Reports in the following sets are 'Under Construction' with regards to changes for IESS.  
*Price Setter, Causer Pays, Showcase, Sample Reports*  
It should be noted that there is no IESS impact on these reports until BDUs register (and operate) in the NEM.

