

2023-2024 **NEM Connection** Scorecard - Dec 2023

Financial year to date (FYTD) summary of connections to the National Electricity Market (NEM).

Notes:

(1) Application stage: assess the performance of the plant "as designed".

(2) "Approved Applications" have achieved NSP and AEMO approval of Generator Performance Standards (5.3.4A letter)

(3) Pre-Registration stage: execute connection agreement, construct plant, network interface and prepare registration application. Completion milestone is when registration application is submitted.

(4) Registration stage: assess registration application, demonstrating performance of "as built" plant.

(5) "Approved Registrations" have received NEM registration approval from AEMO.

(6) Commissioning to Full Output stage: assess physical interaction of the plant at successive hold points to confirm alignment between modelled and tested performance.

(7) 'Full Output Achieved' means plant has commenced operating at maximum rated capacity in the NEM.

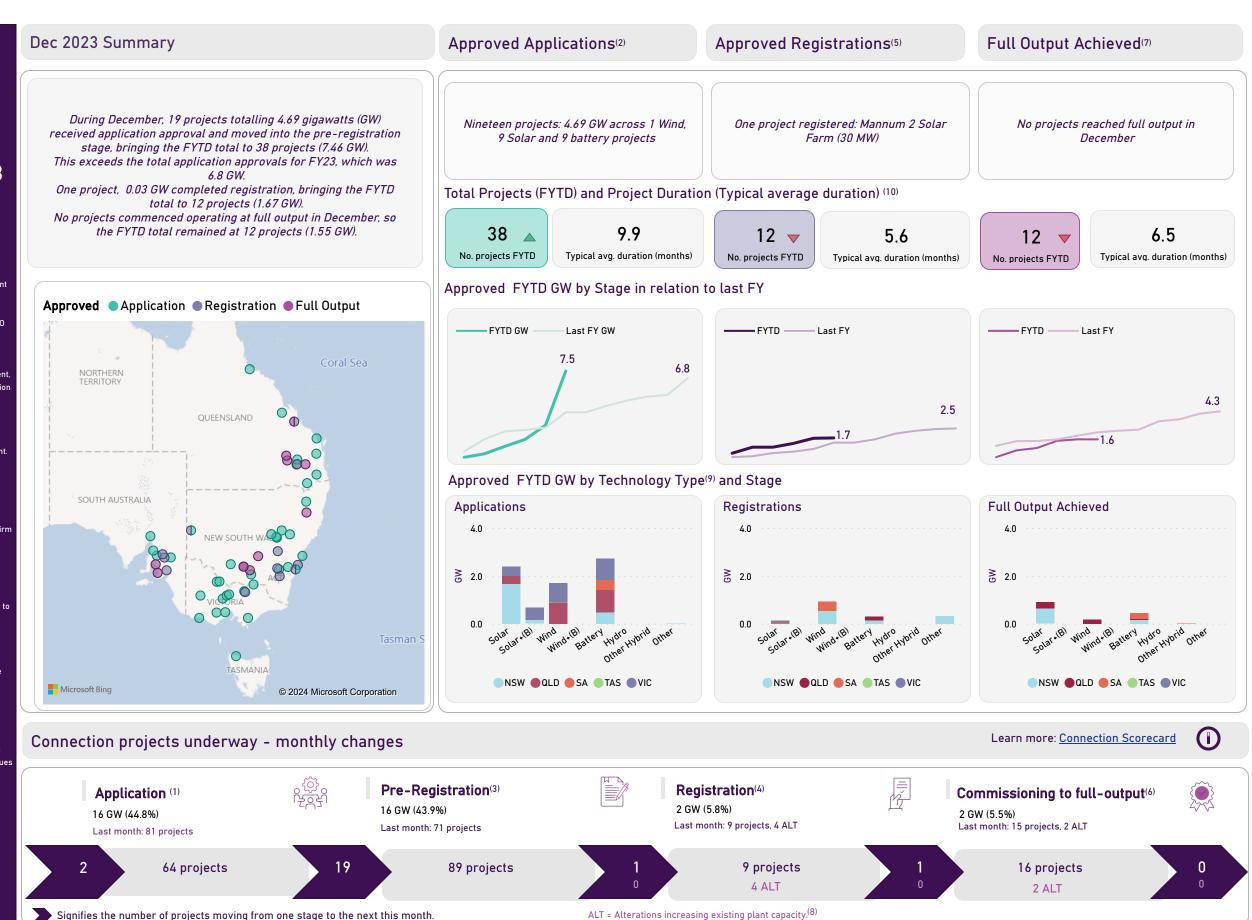
(8) Alterations increasing/decreasing capacity, required to notify AEMO Registrations team.

(9) Technology type groups are as stated. Solar+(B) are projects with solar generation and battery. Other Hybrid includes projects combining multiple variable renewable generation types (e.g. Wind & Solar). Pumped hydro is included in Hydro. Other includes all other synchronous technologies beyond hydro.

(10) Typical average duration shows complete project stages within the past 12 months, and excludes projects which experienced atypical delays (e.g. construction issues or funding uncertainty), in order to provide an indicative stage duration.



- Lower than at the same time last vear
- Higher than at the same time last vear.



Signifies the number of projects moving from one stage to the next this month.

1 of 4



Month ending

FY 2023-2024

Dec 2023

NEM Connection Scorecard In-progress

Snapshot of current projects (in-progress) in each stage as

Notes

of Dec 2023

 Enquiries are potential applications for connection to the NEM. Project options and feasibility are assessed.

(2) Application stage: assess the performance of the plant "as designed".

(3) Pre-Registration stage: execute connection agreement, construct plant, network interface and prepare registration application. Completion milestone is when registration application is submitted.

(4) Registration stage: assess registration application, demonstrating performance of "as built" plant.

(5) Commissioning to Full Output stage: assess physical interaction of the plant at successive hold points to confirm alignment between modelled and tested performance.

(6) Alterations /Upgrades for plant already connected to the NEM e.g. setting changes or new plant components.

(7) Alterations increasing/decreasing capacity, required to notify AEMO Registrations team.

Key This value is:

 Lower than at the same time last year.

 Higher than at the same time last year.

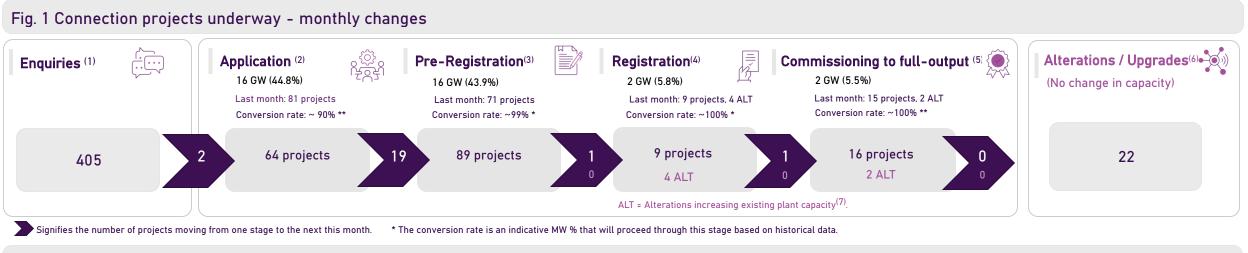
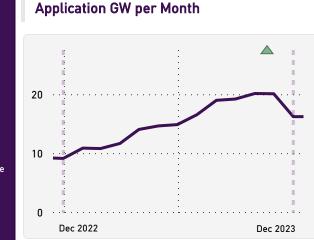
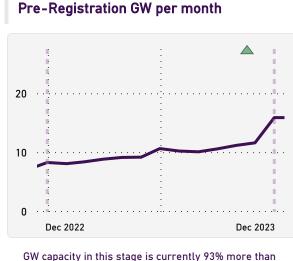


Fig. 2 - Connection Volume (GW) Trend Analysis by Stage



GW capacity in this stage is currently 78% more than 12 months ago



GW capacity in this stage is currently 93% more that 12 months ago

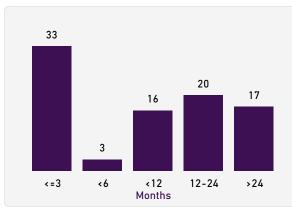
Fig. 3 - Current number of projects in each Stage by Duration

19 14 16 10 5 <= 3 < 6 < 12 Months 12-24 > 24

Application

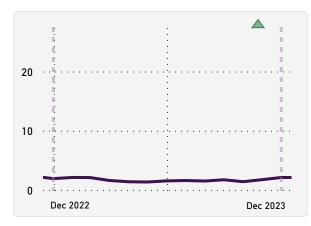
23% of projects have been in this stage for more than 12 months.

Pre-Registration



42% of projects have been in this stage for more than 12 months.

Registration GW per month

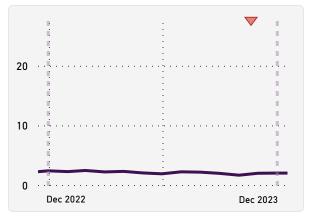


GW capacity in this stage is currently 10% more than 12 months ago



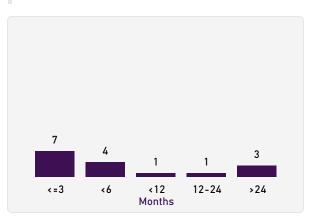
0% of projects have been in this stage for more than $12 \mbox{ months}.$

Commissioning to full-output GW per month



GW capacity in this stage is currently 16% less than 12 months ago

Commissioning to full-output



25% of projects have been in this stage for more than $12 \mbox{ months}.$



Month ending

FY 2023-2024

Dec 2023

NEM Connection Scorecard

In-progress

Snapshot of current projects (in-progress) in each stage as of Dec 2023

Notes:

(1) Technology type groups are as stated. Solar+(B) are projects with solar generation and battery. Other Hybrid includes projects combining multiple variable renewable generation types (e.g. Wind & Solar). Pumped hydro is included in Hydro. Other includes all other synchronous technologies beyond hydro.

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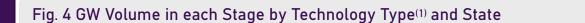




Fig. 5 GW Volume percentage by State

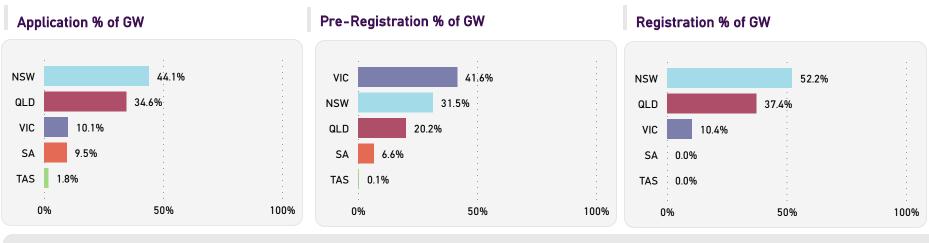
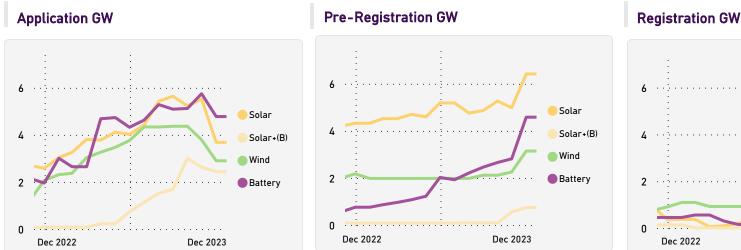
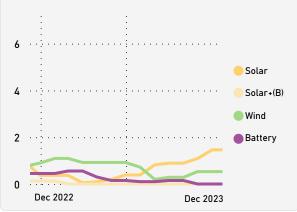
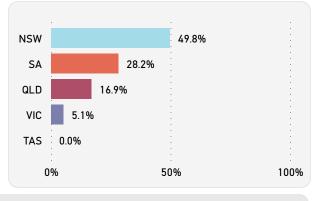


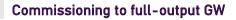
Fig. 6 GW Volume Trend Analysis by Renewable Technology

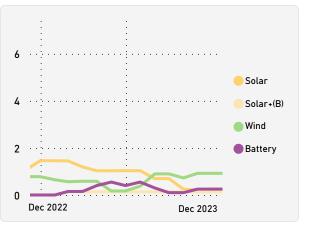














FY 2023-2024

Month ending

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NEM Connection Scorecard Performance

Completed milestones in AEMO Connections process, by Stage.

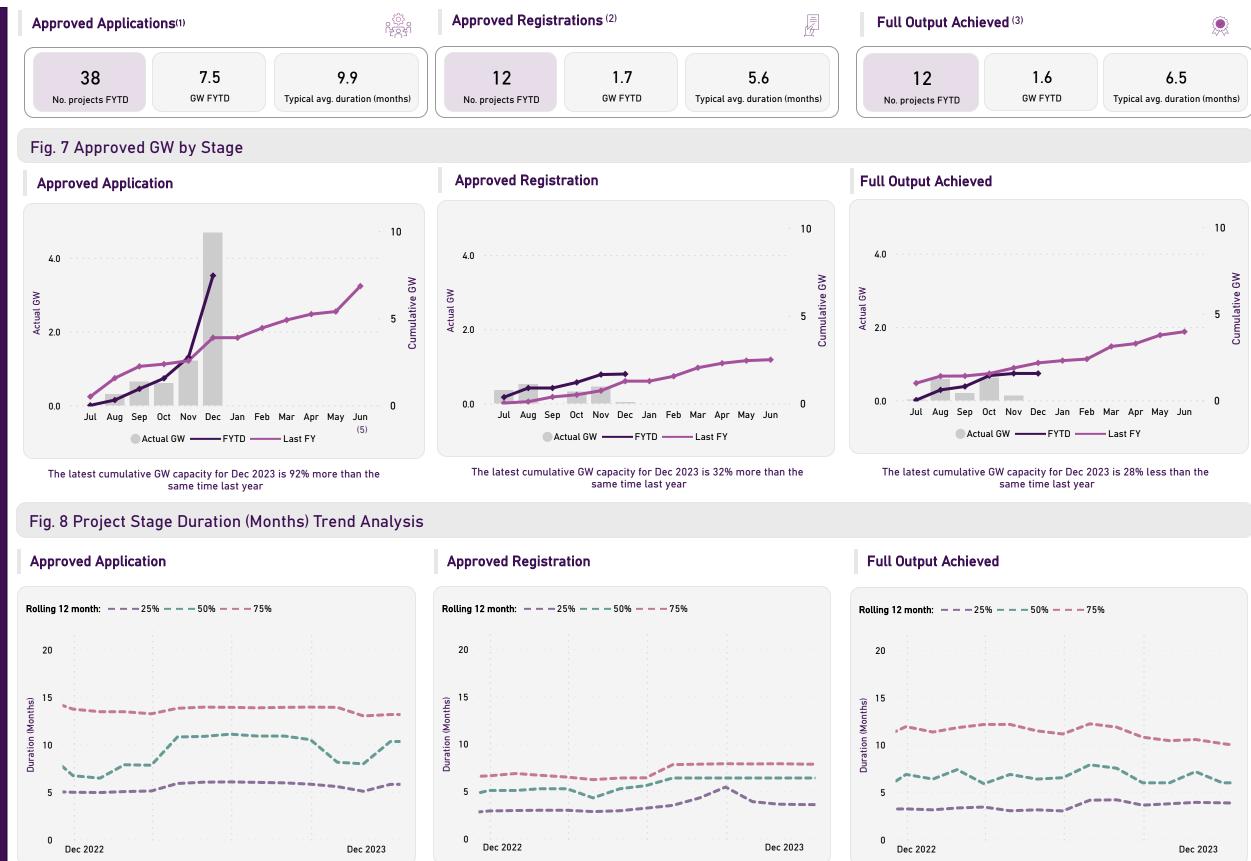


(1) Application stage assesses the performance of the plant as designed. Applications are approved when the 5.3.4A letter is issued.

(2) Registration stage: assess registration application, demonstrating performance of "as built" plant. Approved Registrations" have received NEM registration approval from AEMO

3) 'Full Output Achieved' means plant has commenced operating at maximum rated capacity in the NEM.

(4) Typical average duration shows complete project stages within the past 12 months, and excludes projects which experienced atypical delays (e.g. construction issues or funding uncertainty), in order to provide an indicative stage duration



75% of the projects took 13.1 months or less to complete this stage. 25% of projects took 5.8 months or less to complete this stage. 75% of the projects took 7.8 months or less to complete this stage. 25% of projects took 3.6 months or less to complete this stage. 75% of the projects took 10.1 months or less to complete this stage. 25% of projects took 3.9 months or less to complete this stage.

