

## 2023-2024 NEM Connection Scorecard - Sep 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.

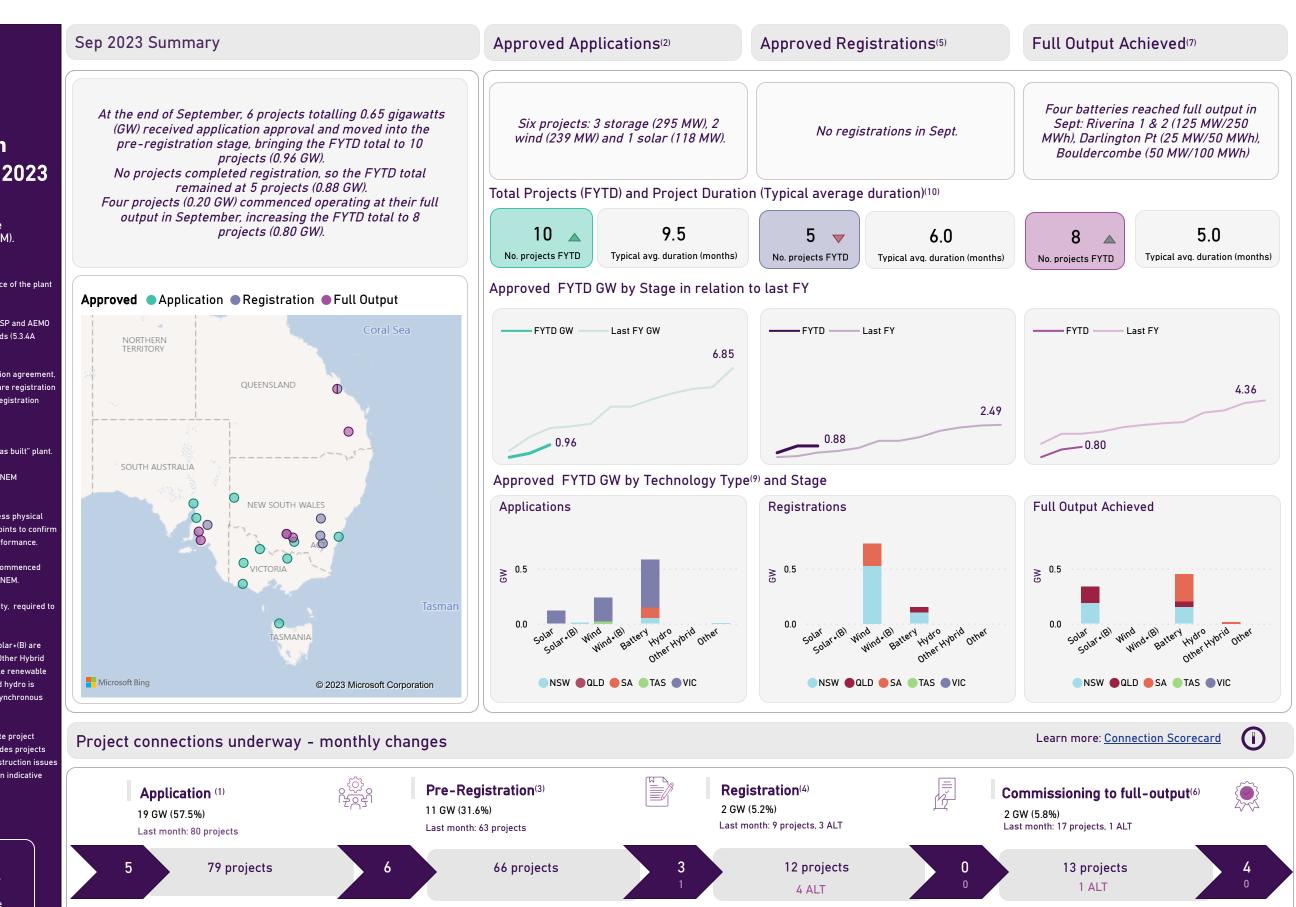
(9) Technology type groups are as stated. Solar+(B) are projects with solar generation and battery. Other Hybrid includes projects combining multiple variable renewable generation types (e.g. Wind & Solar). Pumped hydro is included in Hydro. Other includes all other synchronous technologies beyond hydro.

(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 year.
- Higher than at the same time last year.

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



ALT = Alterations increasing existing plant capacity.<sup>(8)</sup>

1 of 4



Month ending

FY 2023-2024

Sep 2023

## NEM Connection Scorecard In-progress

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

### Notes:

(1) 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.

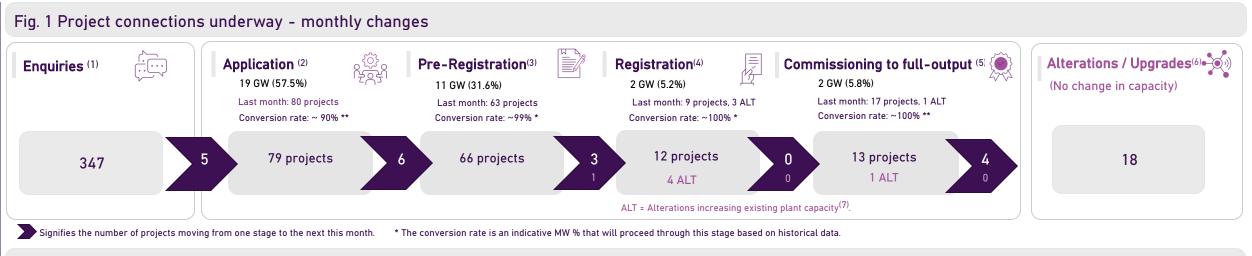
(6) Alterations /Upgrades for plant already connected to the NEM e.g. setting changes or new plant components.

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

#### Key This value is:

 Lower than at the same time last year.

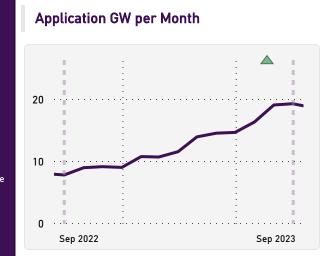
 Higher than at the same time last year.



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



GW capacity in this stage is currently 148% more than

12 months ago

Application

Pre-Registration GW per month

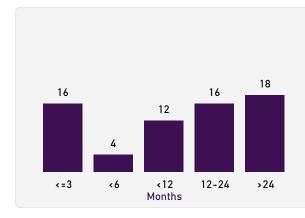
GW capacity in this stage is currently 42% more than 12 months ago

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



20% of projects have been in this stage for more than 12 months.





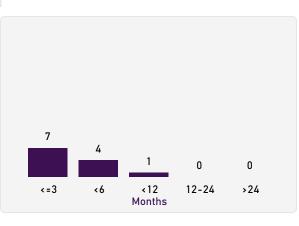
52% of projects have been in this stage for more than 12 months.

**Registration GW per month** 

0 Sep 2022 Sep 2023

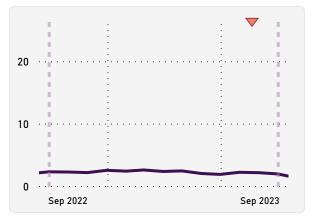
GW capacity in this stage is currently 14% less than 12 months ago





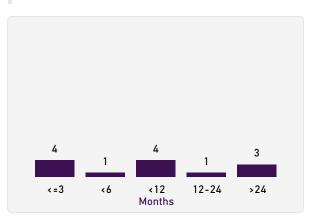
0% of projects have been in this stage for more than 12 months.

### Commissioning to full-output GW per month



GW capacity in this stage is currently 15% less than 12 months ago

### Commissioning to full-output



31% of projects have been in this stage for more than 12 months.



# Month ending

FY 2023-2024

### Sep 2023

## NEM Connection Scorecard

### In-progress

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

### Notes:

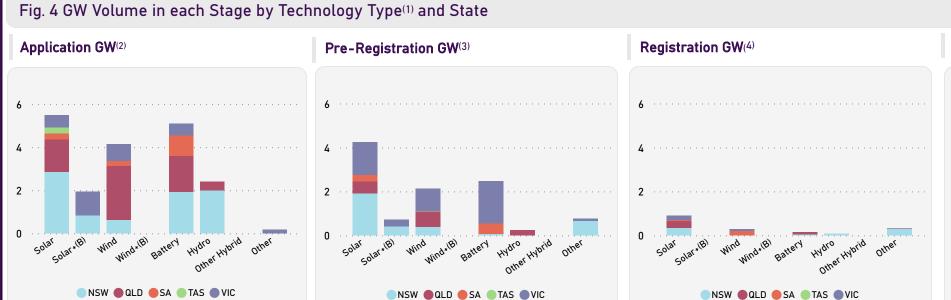
(1) Technology type groups are as stated.
Solar + (B) are projects with solar
generation and battery. Other Hybrid
includes projects combining
multiple variable renewable generation
types (e.g. Wind & Solar). Pumped hydro is
included in Hydro. Other includes all other
synchronous technologies
beyond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

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

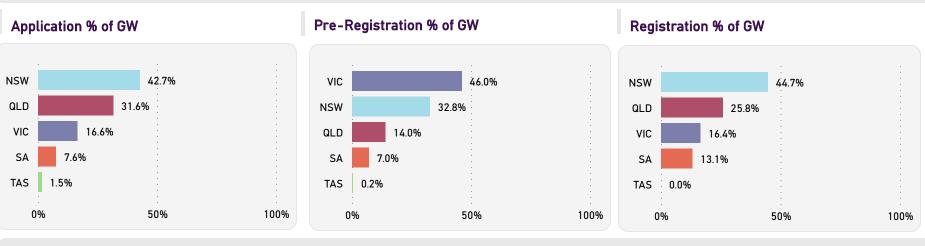
(3) Pre-Registration stage: execute connection agreement, construct plant, network interface and prepare registration application. Completion milestone is when registration application is submitted.

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

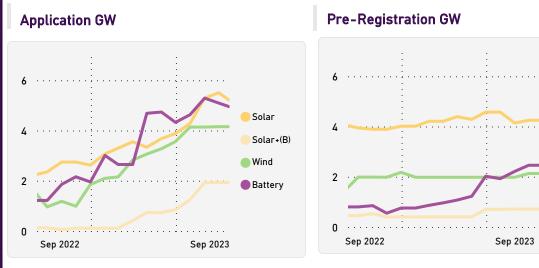
(5) Commissioning to Full Output stage: assess physical interaction of the plant at successive hold points to confirm alignment between modelled and tested performance.



### Fig. 5 GW Volume percentage by State



### Fig. 6 GW Volume Trend Analysis by Renewable Technology



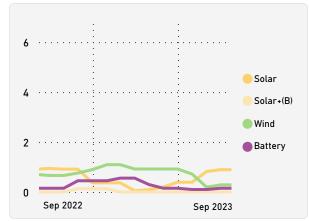
### Registration GW

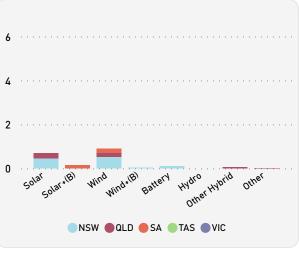
Solar

Wind 🔵

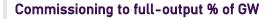
Battery

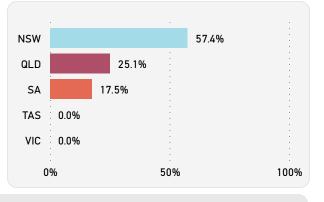
Solar+(B)



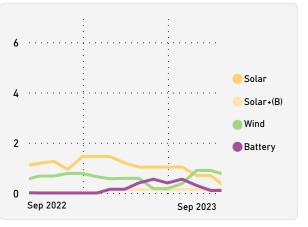


### Commissioning to full-output GW<sup>(5)</sup>













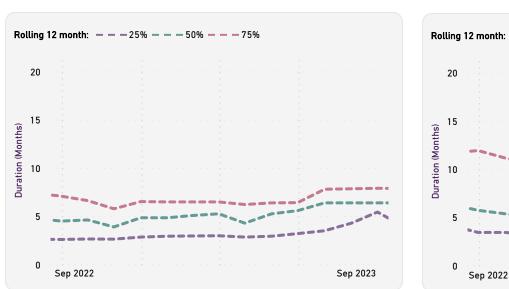
have received NEM registration approval from AEMO

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

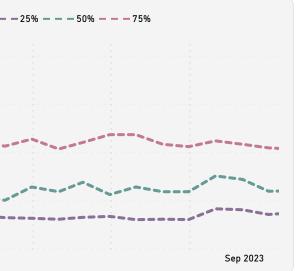
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75% of the projects took 13.9 months or less to complete this stage. 25% of projects took 5.8 months or less to complete this stage.



75% of the projects took 7.9 months or less to complete this stage. 25% of projects took 5.4 months or less to complete this stage.





75% of the projects took 10.4 months or less to complete this stage. 25% of projects took 3.5 months or less to complete this stage.