

2023-2024 NEM Connection Scorecard - Oct 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.

Key This value is:

- ▲ Higher than at the same time last year.
- ▼ Lower than at the same time last year.

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

Oct 2023 Summary

During October, 3 projects totalling 0.61 gigawatts (GW) received application approval and moved into the pre-registration stage, bringing the FYTD total to 13 projects (1.56 GW).
Two projects, totalling 0.32 GW completed registration, bringing the FYTD total to 7 projects (1.20 GW).
Three projects (0.63 GW) commenced operating at their full output in October, increasing the FYTD total to 11 projects (1.43 GW).

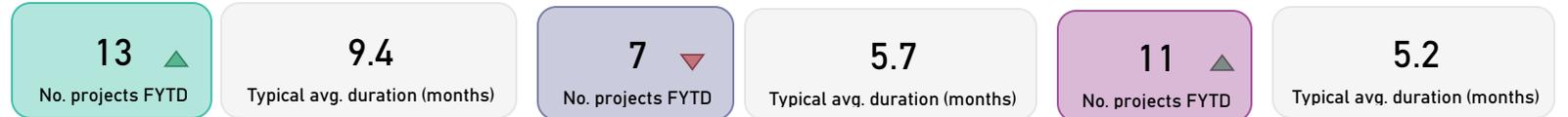
Approved ● Application ● Registration ● Full Output



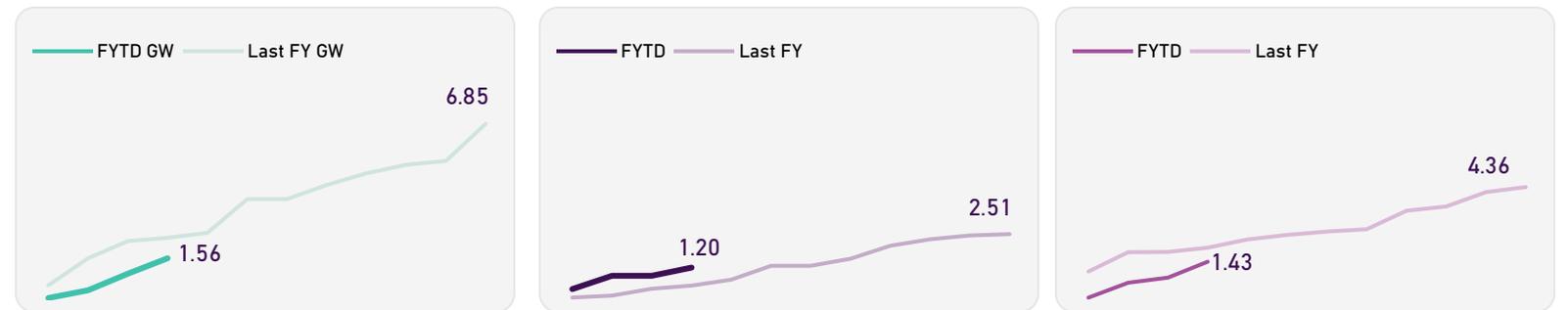
Approved Applications⁽²⁾

Three projects: 2 solar farms (406 MW) and 1 BESS (200 MW)

Total Projects (FYTD) and Project Duration (Typical average duration)⁽¹⁰⁾



Approved FYTD GW by Stage in relation to last FY



Approved FYTD GW by Technology Type⁽⁹⁾ and Stage



Project connections underway - monthly changes

Learn more: [Connection Scorecard](#)



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

Fig. 1 Project connections underway - monthly changes



➤ Signifies the number of projects moving from one stage to the next this month. * The conversion rate is an indicative MW % that will proceed through this stage based on historical data.

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

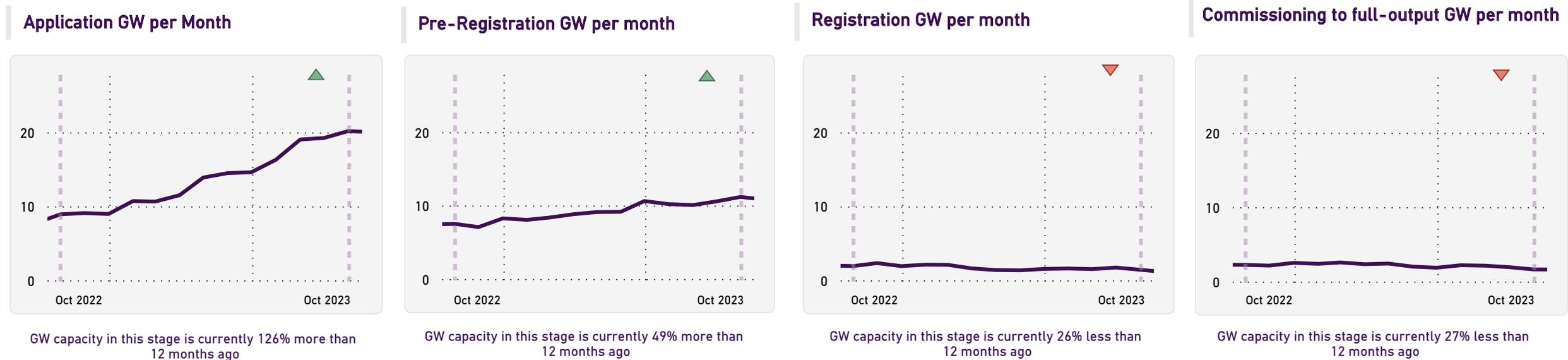


Fig. 3 - Current number of projects in each Stage by Duration



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. 4 GW Volume in each Stage by Technology Type⁽¹⁾ and State



Fig. 5 GW Volume percentage by State

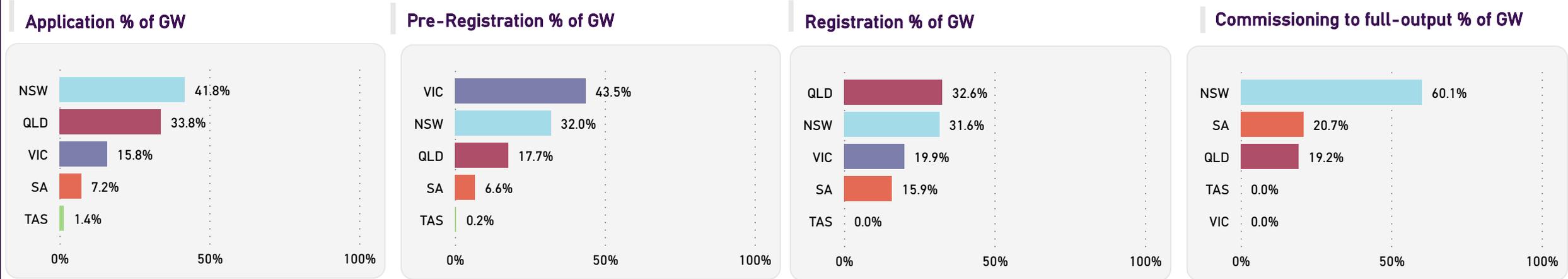
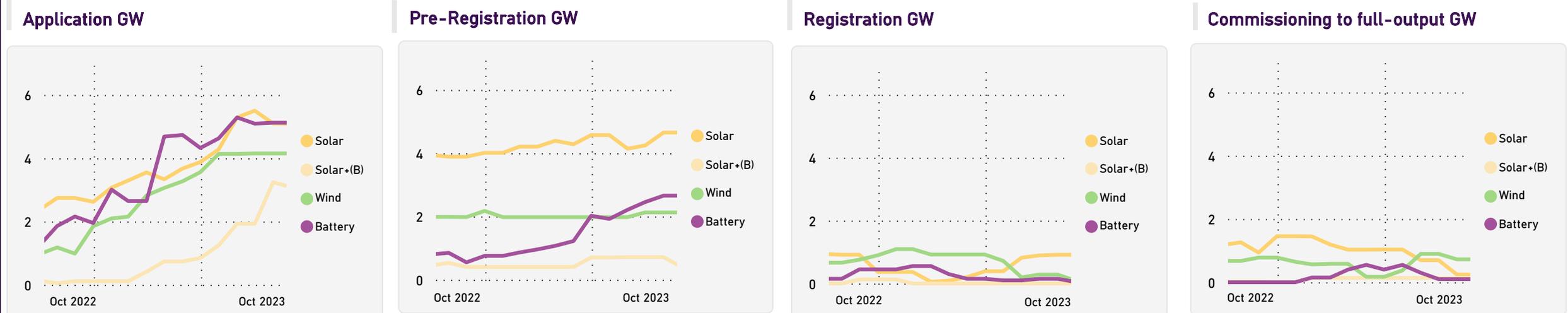
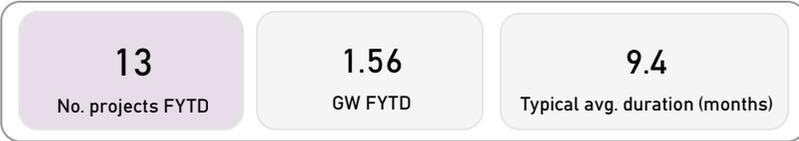


Fig. 6 GW Volume Trend Analysis by Renewable Technology

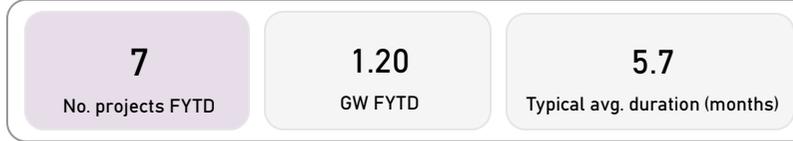


Notes:
 (1) Application stage assesses the performance of the plant as designed. Applications are approved when the 5.3.4A letter is issued.
 (2) Registration stage: assess registration application, demonstrating performance of "as built" plant. Approved Registrations have received NEM registration approval 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.

Approved Applications⁽¹⁾



Approved Registrations⁽²⁾



Full Output Achieved⁽³⁾

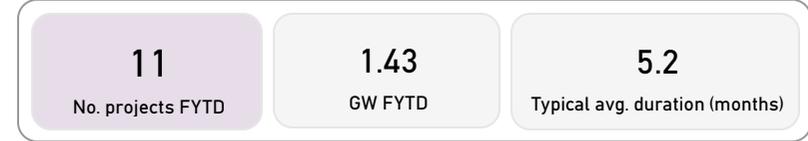
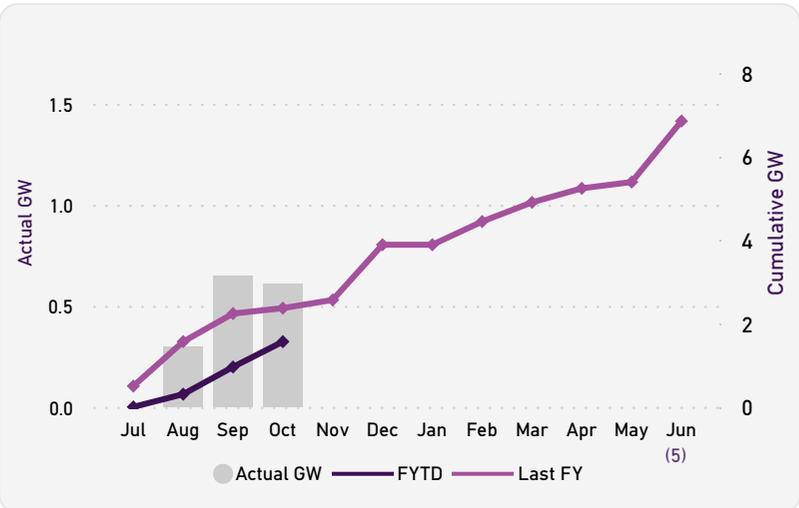


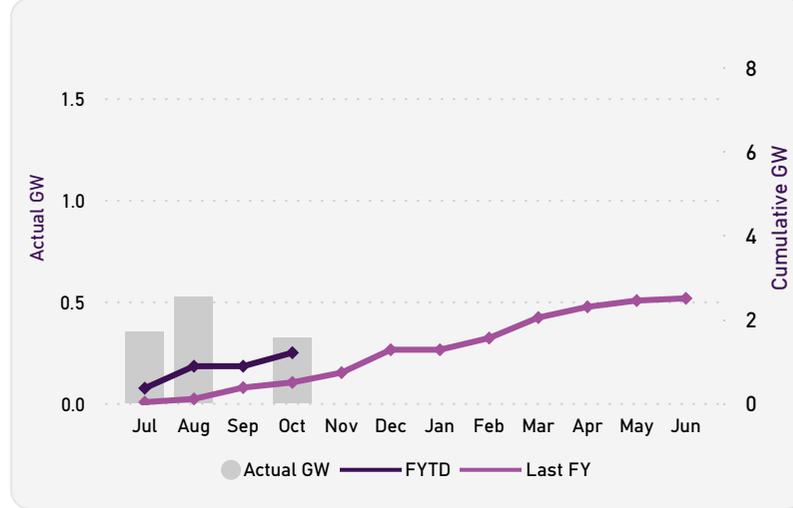
Fig. 7 Approved GW by Stage

Approved Application



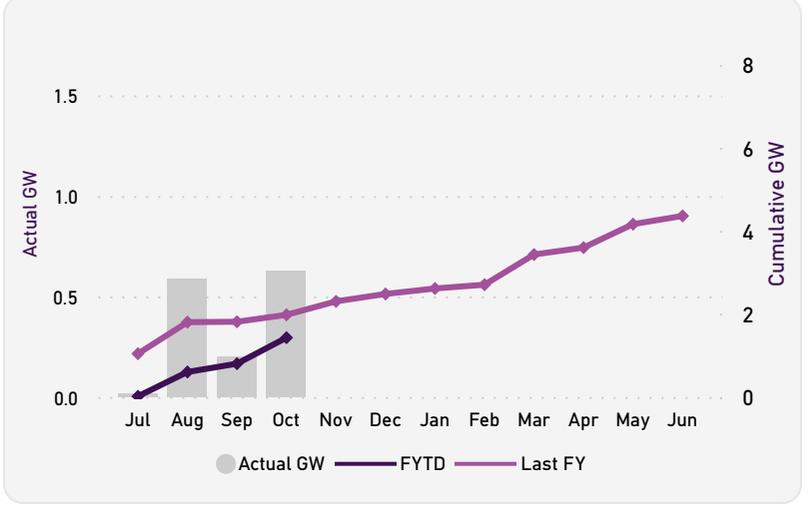
The latest cumulative GW capacity for Oct 2023 is 34% less than the same time last year

Approved Registration



The latest cumulative GW capacity for Oct 2023 is 145% more than the same time last year

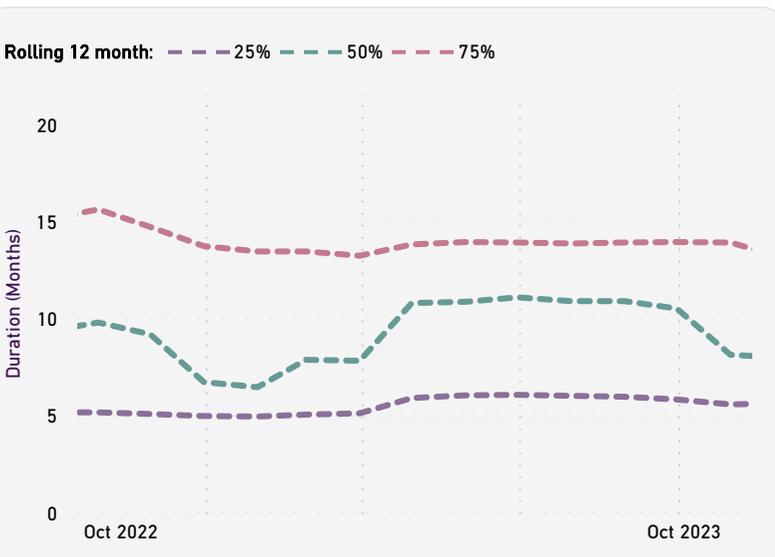
Full Output Achieved



The latest cumulative GW capacity for Oct 2023 is 28% less than the same time last year

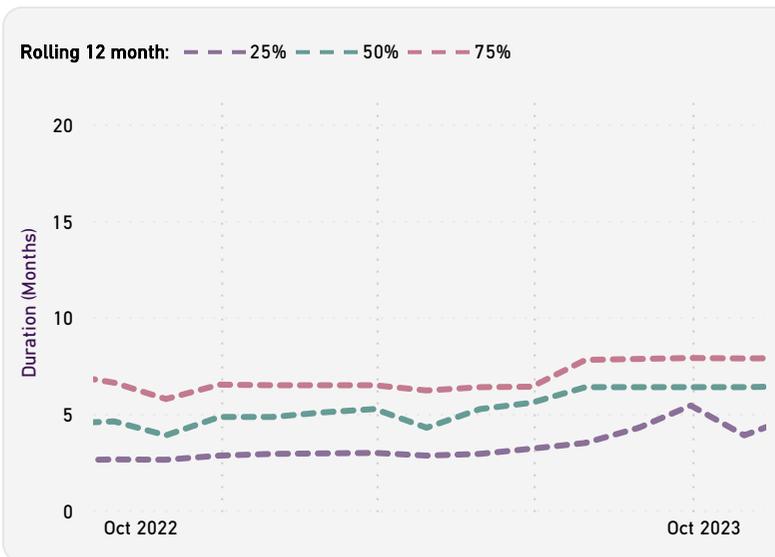
Fig. 8 Project Stage Duration (Months) Trend Analysis

Approved Application



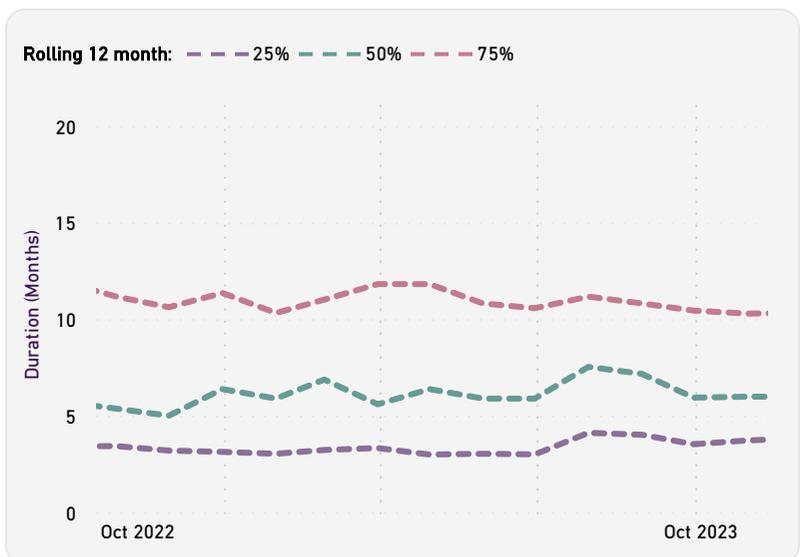
75% of the projects took 13.9 months or less to complete this stage.
 25% of projects took 5.6 months or less to complete this stage.

Approved Registration



75% of the projects took 7.9 months or less to complete this stage.
 25% of projects took 3.9 months or less to complete this stage.

Full Output Achieved



75% of the projects took 10.3 months or less to complete this stage.
 25% of projects took 3.7 months or less to complete this stage.