

# 2023-2024 NEM Connection Scorecard - Jun 2024

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) Proponent Implementation stage: AEMO has no involvement. Proponent and NSP execute connection agreement. NSP constructs network interface. Proponent constructs plant and prepares registration application. Completion milestone is when registration package (R1) is submitted to AEMO.
- (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:

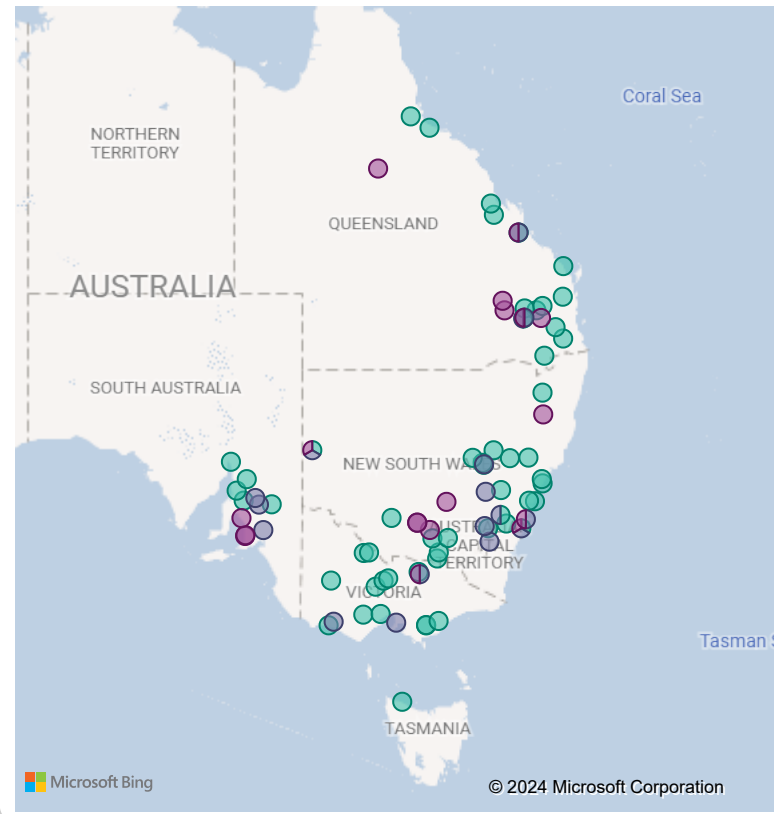
- ▼ Lower than at the same time last year.
- ▲ Higher than at the same time last year.

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

## Jun 2024 Summary

During June, 4 projects totalling 0.72 gigawatts (GW) received application approval and moved into the proponent implementation stage, bringing the FYTD total to 56 projects (12.0 GW). One project completed registration bringing the FYTD total to 17 projects (2.4 GW). No projects commenced operating at full output in June, so the FYTD total remained at 19 projects (2.2 GW).

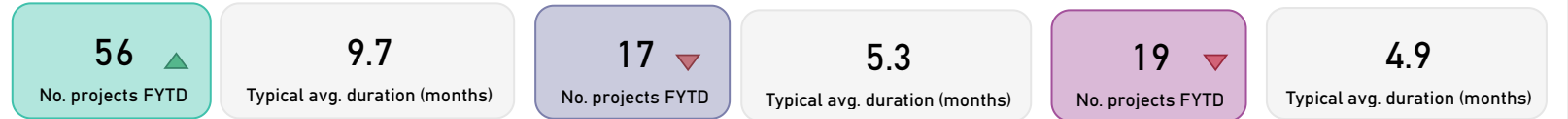
### Approved ● Application ● Registration ● Full Output



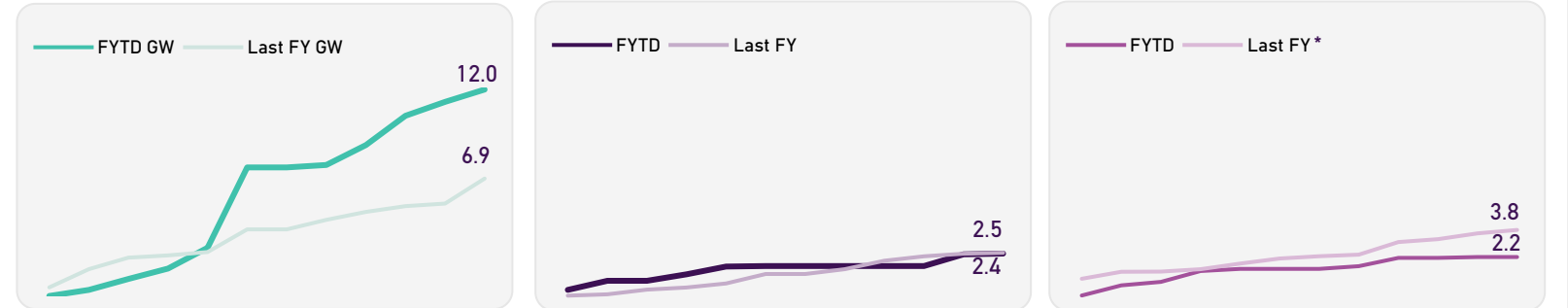
## Approved Applications<sup>(2)</sup>

Four projects: Solar + B (80MW), Wind (276MW), Battery (300MW, 65MW)

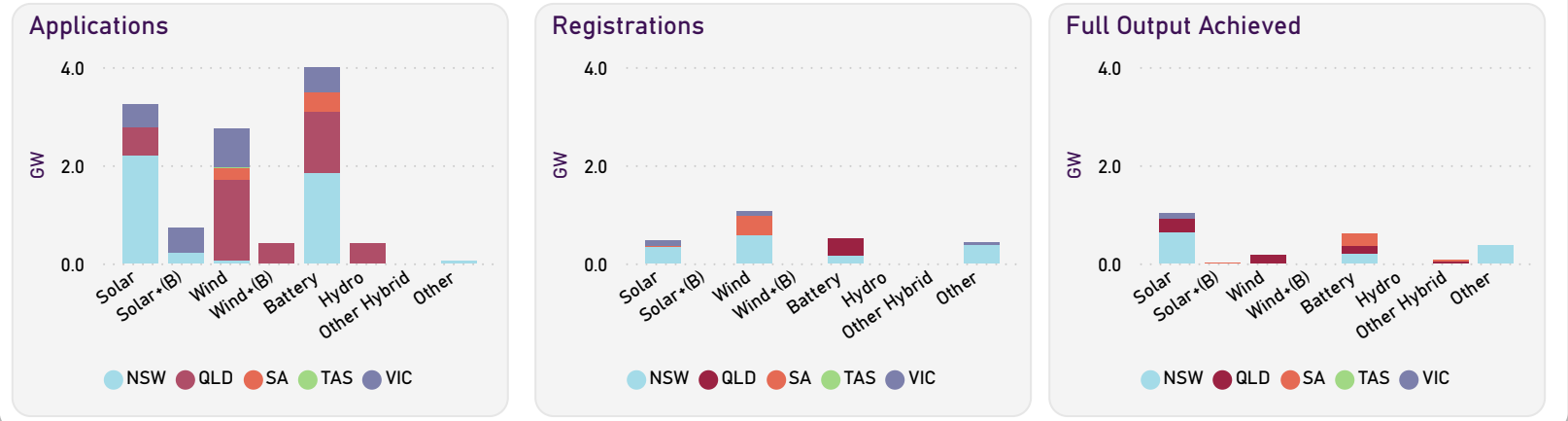
### Total Projects (FYTD) and Project Duration (Typical average duration)



### Approved FYTD GW by Stage in relation to last FY

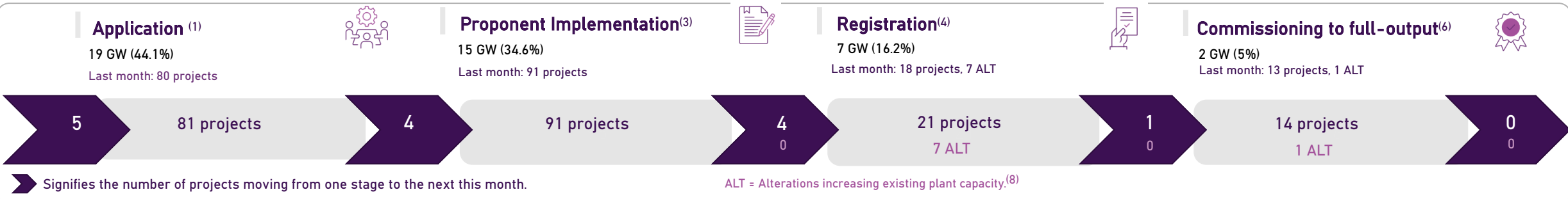


### Approved FYTD GW by Technology Type<sup>(9)</sup> and Stage



## Connection projects underway - monthly changes

Learn more: [Connection Scorecard](#)



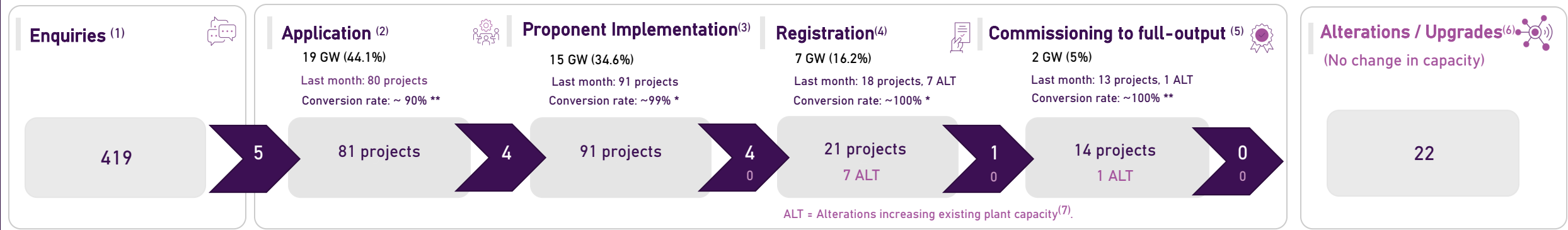
Snapshot of current projects (in-progress) in each stage as of Jun 2024

**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) Proponent Implementation stage: AEMO has no involvement. Proponent and NSP execute connection agreement. NSP constructs network interface. Proponent constructs plant and prepares registration application. Completion milestone is when registration package (R1) is submitted to AEMO.
- (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.
- (8) Staged commissioning approach - Proponent has planned commissioning in stages due to staged construction or to manage their resources.

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

Fig. 1 Connection projects 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

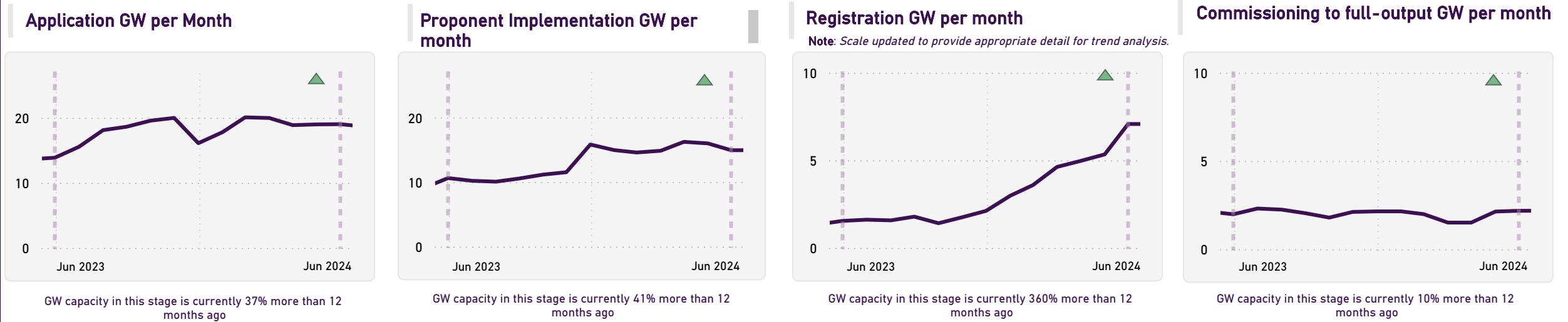
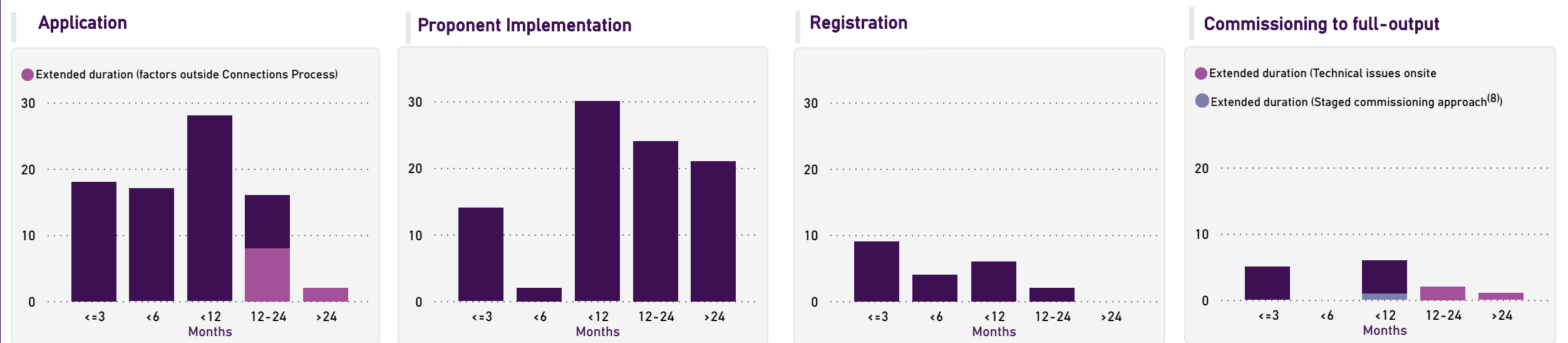


Fig. 3 - Current number of projects in each Stage by Duration



13% of projects have extended duration due to factors outside the connections process, with the remaining projects in this stage for >12 months experiencing complex design, design changes and higher need for resubmissions.

49% of projects have been in this stage for more than 12 months.

10% of projects have been in this stage for more than 12 months.

21% of projects have extended duration due to technical issues onsite. 7% of projects are undergoing a staged commissioning approach.

Snapshot of current projects (in-progress) in each stage as of Jun 2024

**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) Proponent Implementation stage: AEMO has no involvement. Proponent and NSP execute connection agreement. NSP constructs network interface. Proponent constructs plant and prepares registration application. Completion milestone is when registration package (R1) is submitted to AEMO.

(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<sup>(1)</sup> and State

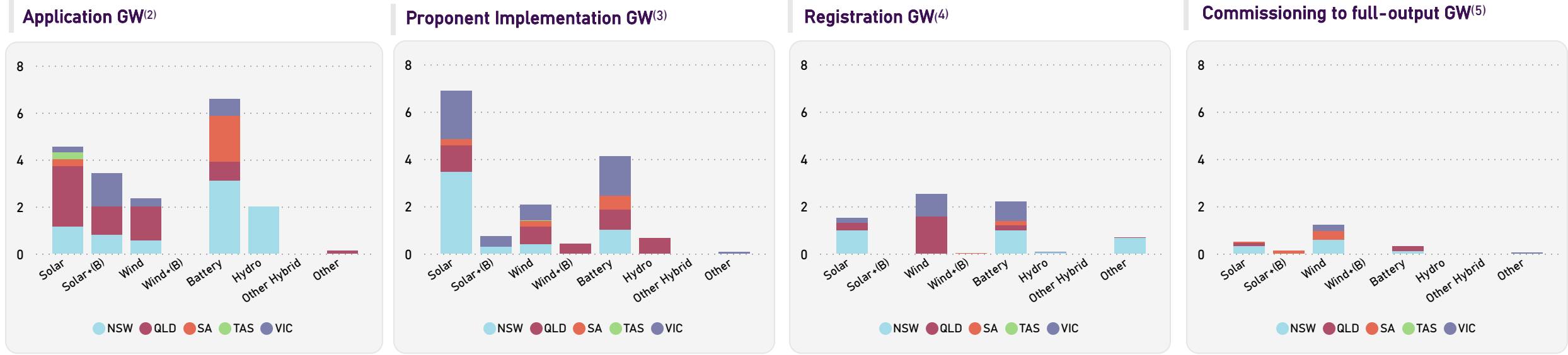


Fig. 5 GW Volume percentage by State

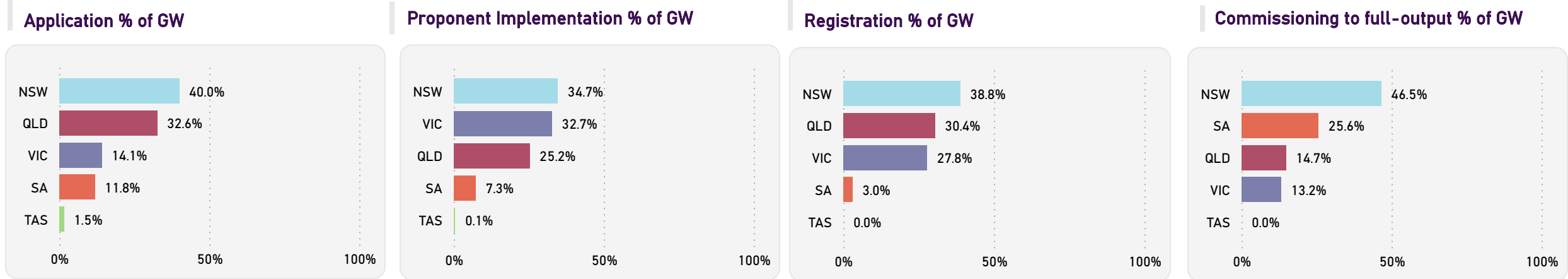
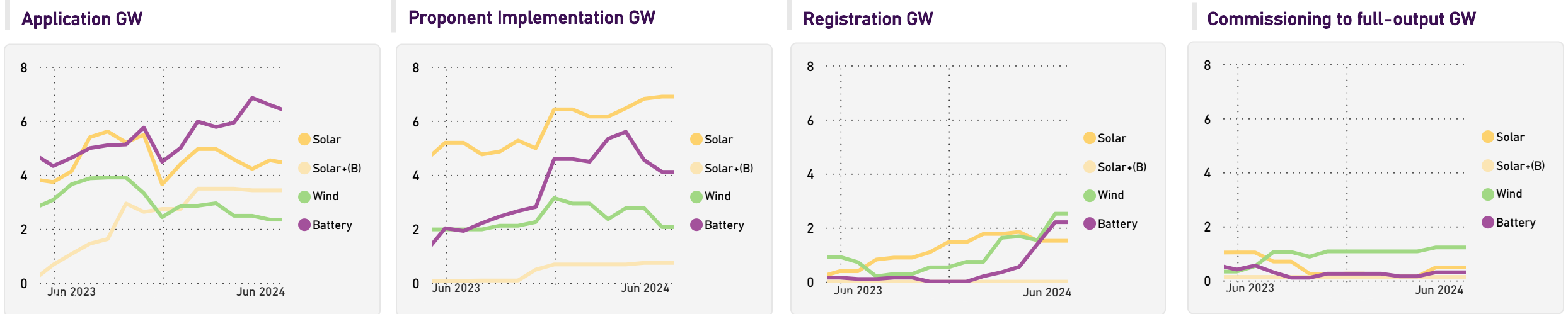


Fig. 6 GW Volume Trend Analysis by Renewable Technology





FY 2023-2024

Month ending

Jun 2024

# NEM Connection Scorecard Performance

Completed milestones in AEMO Connections process, by Stage.

### Notes:

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

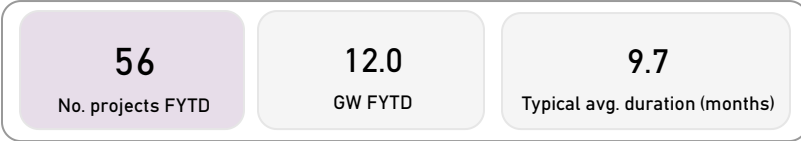
(2) Registration stage: assess registration application, demonstrating performance of "as built" plant. Approved Registrations have received NEM registration approval from AEMO.

(3) Proponent Implementation stage: AEMO has no involvement. Proponent and NSP execute connection agreement. NSP constructs network interface. Proponent constructs plant and prepares registration application. Completion milestone is when registration package (R1) is submitted to AEMO.

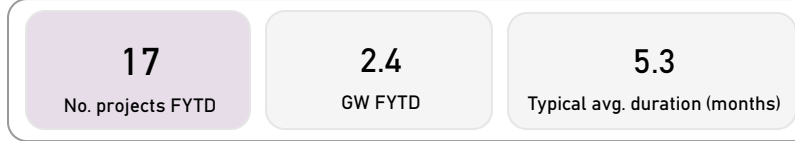
(4) 'Full Output Achieved' means plant has commenced operating at maximum rated capacity in the NEM.

(5) 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.

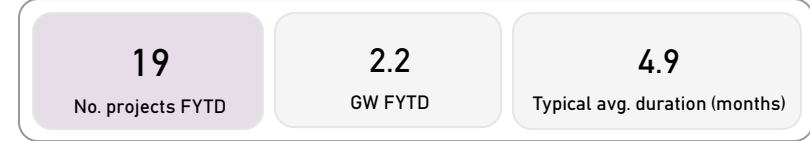
## Approved Applications<sup>(1)</sup>



## Approved Registrations<sup>(2)</sup>

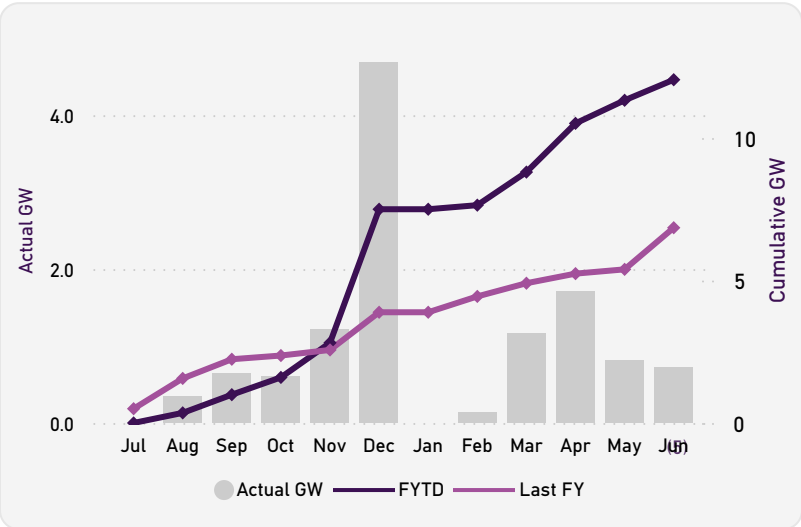


## Full Output Achieved<sup>(4)</sup>



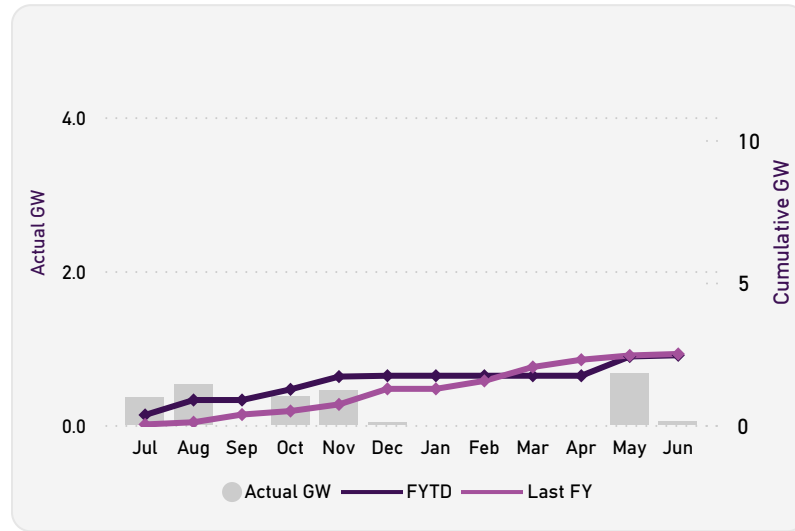
### Fig. 7 Approved GW by Stage

#### Approved Application



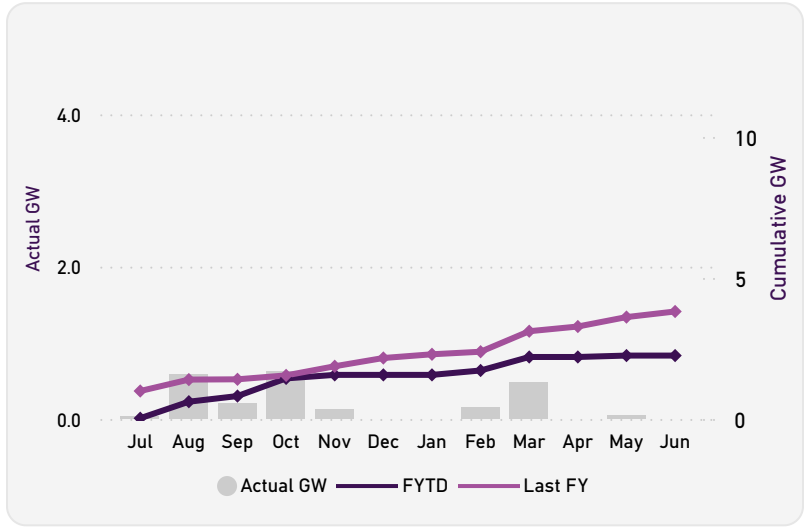
The latest cumulative GW capacity for Jun 2024 is 76% more than the same time last year

#### Approved Registration



The latest cumulative GW capacity for Jun 2024 is 2% less than the same time last year

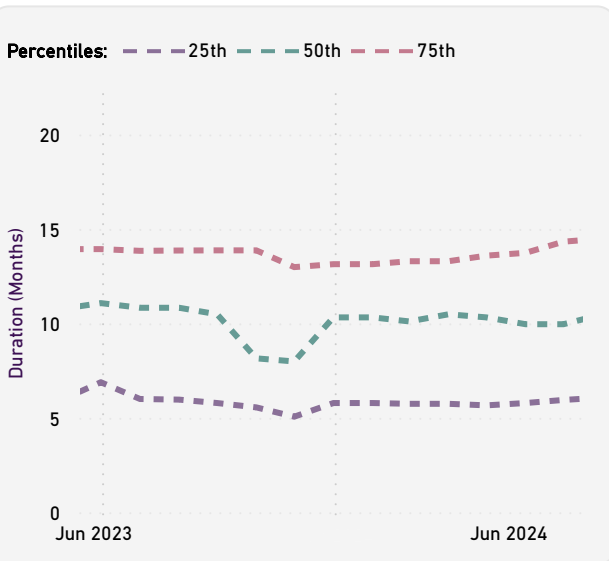
#### Full Output Achieved



The latest cumulative GW capacity for Jun 2024 is 41% less than the same time last year

### Fig. 8 Project Stage Duration (Months) Trend Analysis

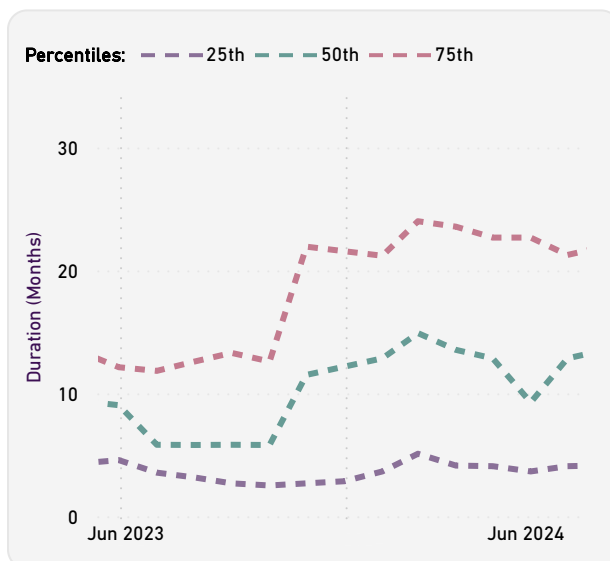
#### Approved Application



75% of the projects took 14.3 months or less to complete this stage. 25% of projects took 5.9 months or less to complete this stage.

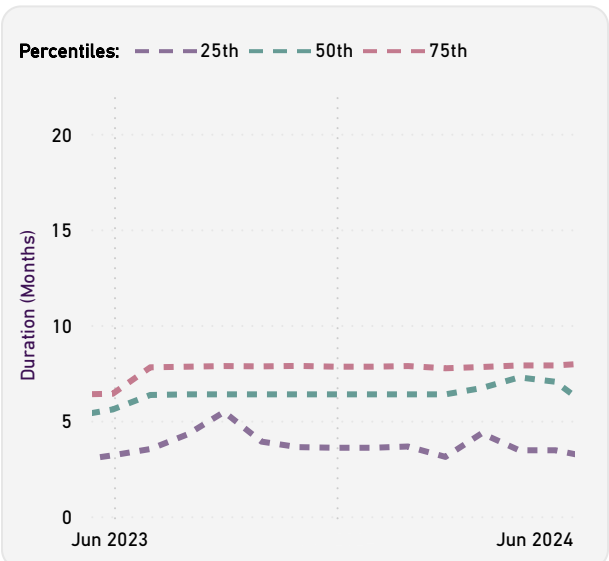
#### Proponent Implementation<sup>(3)</sup>

AEMO has no involvement in this stage



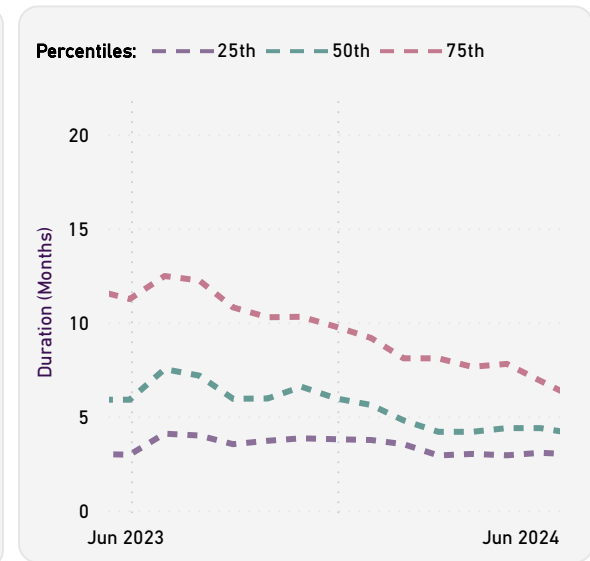
75% of the projects took 21.3 months or less to complete this stage. 25% of projects took 4.1 months or less to complete this stage.

#### Approved Registration



75% of the projects took 7.9 months or less to complete this stage. 25% of projects took 3.4 months or less to complete this stage.

#### Full Output Achieved



75% of the projects took 6.9 months or less to complete this stage. 25% of projects took 3.1 months or less to complete this stage.