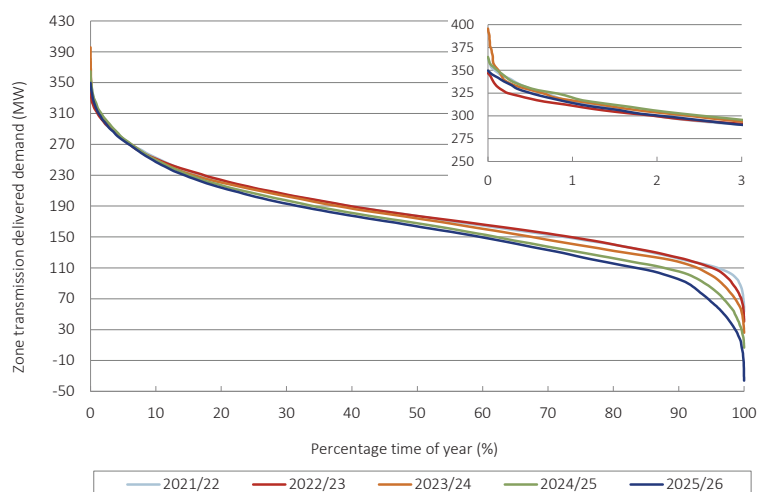


Far North zone overview

Demand duration curves

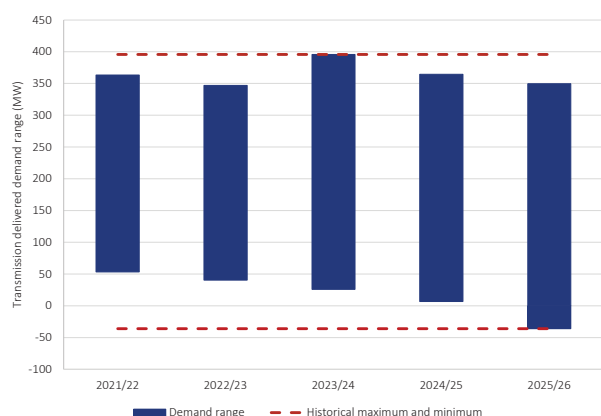
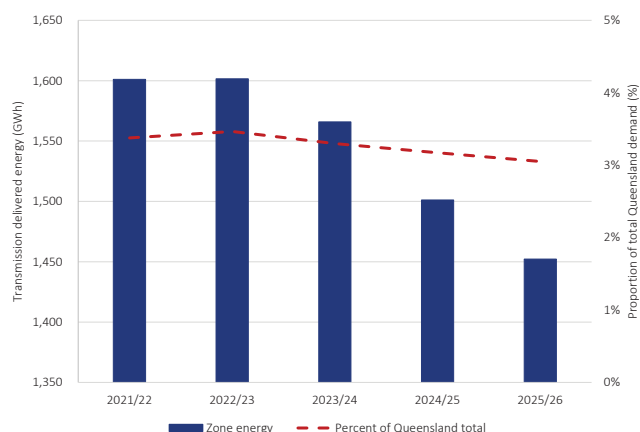


0

LOAD LOSS EVENTS

from a single network element outage

Demand and energy trends



Embedded generation

89GWh

Lakelands Solar Farm

Non-scheduled

Tablelands Sugar Mill

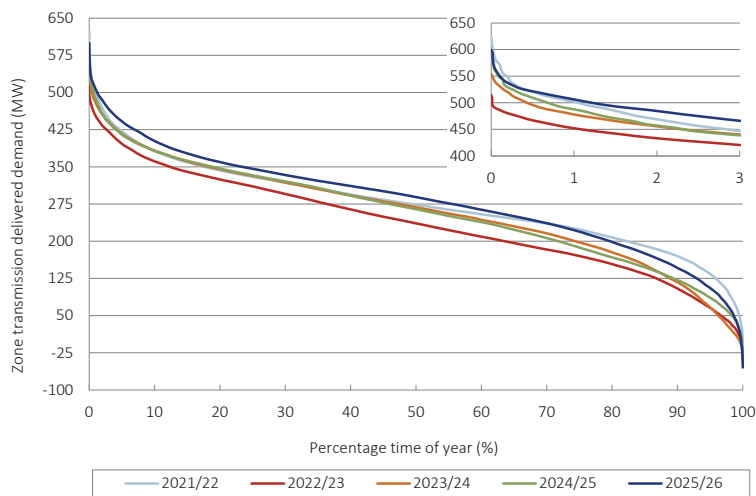
Non-scheduled

Transmission lines vulnerable to lightning

Transmission lines	End date	Category
Chalumbin to Turkinje 132kV double circuit	Jan 2030	Proven
Guybal Munjan to Chalumbin 275kV double circuit	Nov 2027	Proven
Kamerunga to Barron Gorge 132kV double circuit	Dec 2027	Probable

Ross zone overview

Demand duration curves

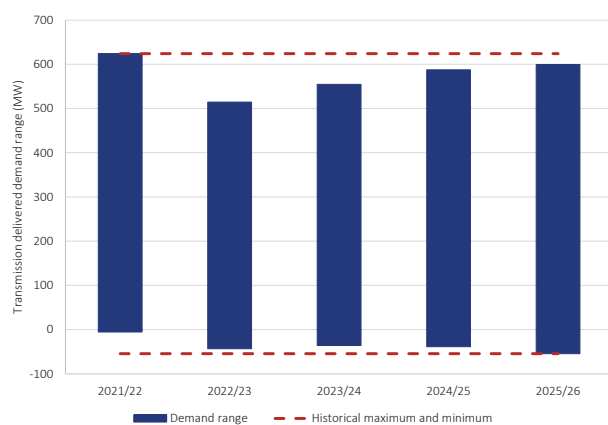
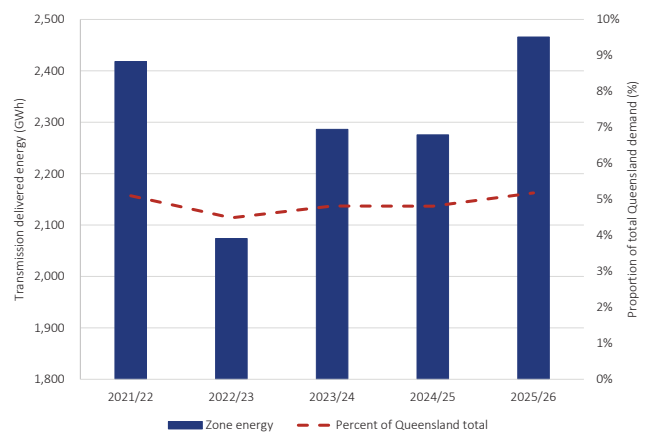


0

LOAD LOSS EVENTS

from a single network element outage

Demand and energy trends



Embedded generation

547GWh

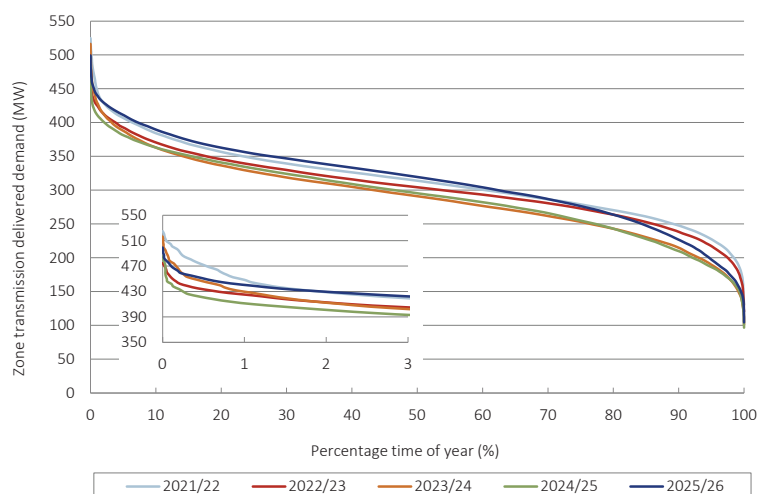
Hughenden Solar Farm	Non-scheduled
Pioneer Sugar Mill	Non-scheduled
Townsville GT Steam Turbine	Scheduled
Kennedy Energy Park	Semi-scheduled
Sun Metals Solar Farm	Semi-scheduled

Transmission lines vulnerable to lightning

Transmission lines	End date	Category
Ross to Townsville South 132kV double circuit	Apr 2028	Probable
Ross to Woree tee Tully 275kV circuit and Cardwell to Tully 132kV circuit	Feb 2027	Probable

North zone overview

Demand duration curves



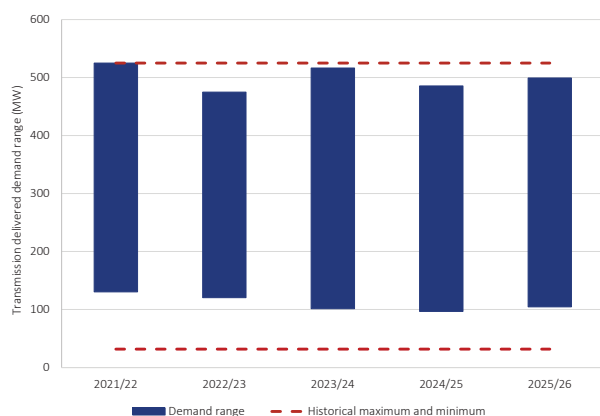
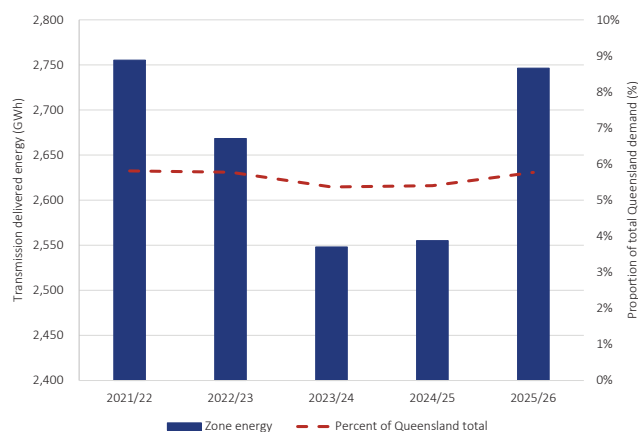
1

LOAD LOSS EVENTS

from a single network element outage, totalling

< 1MWh

Demand and energy trends



Embedded generation

343GWh

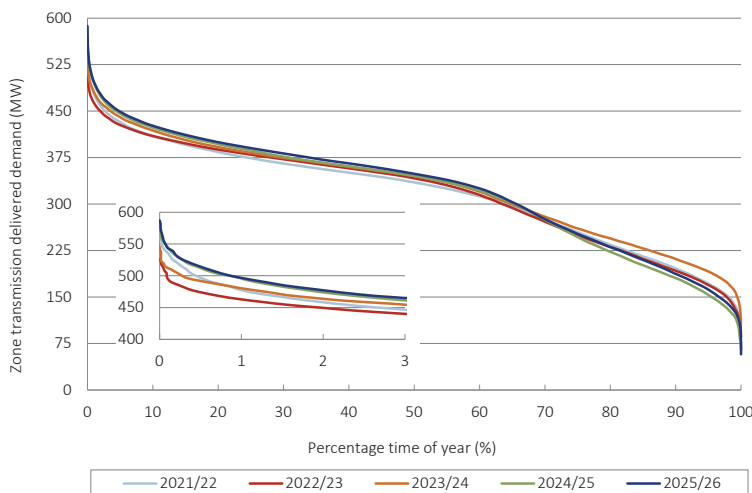
Moranbah North GT	Non-scheduled
Racecourse Mill	Non-scheduled
Collinsville Solar Farm	Semi-scheduled

Transmission lines vulnerable to lightning

Transmission lines	End date	Category
Collinsville North to Proserpine 132kV circuit	Jan 2031	Proven
Collinsville North to Stoney Creek and Collinsville North to Newlands 132kV double circuit	Nov 2027	Proven
Strathmore to Clare South and Strathmore to Clare South tee King Creek 132kV double circuit	Dec 2026	Probable
Gooniyella to North Goonyella tee Stoney Creek and Goonyella to Newlands 132kV double circuit	Feb 2029	Probable

Central West zone overview

Demand duration curves



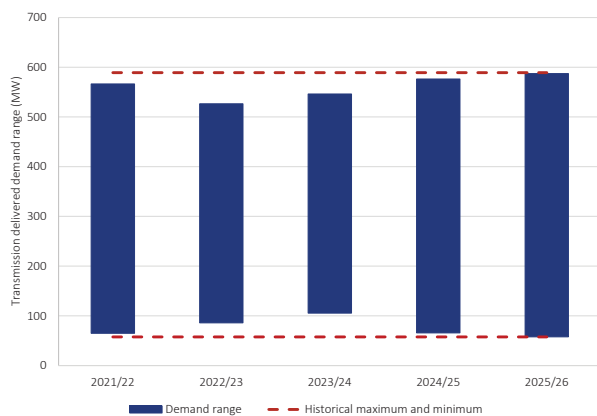
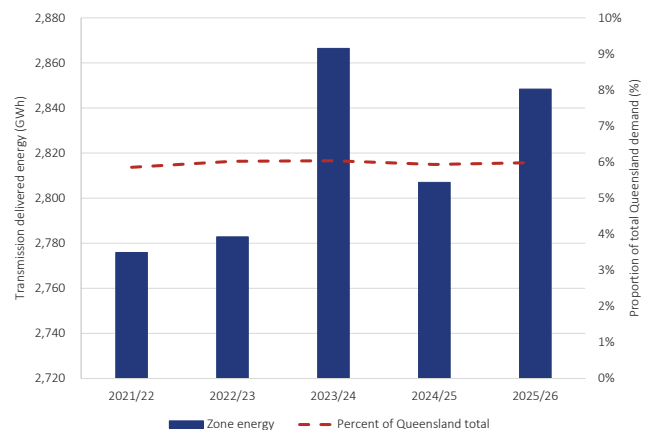
2

LOAD LOSS EVENTS

from a single network element outage, totalling

38MWh

Demand and energy trends



Embedded generation

529GWh

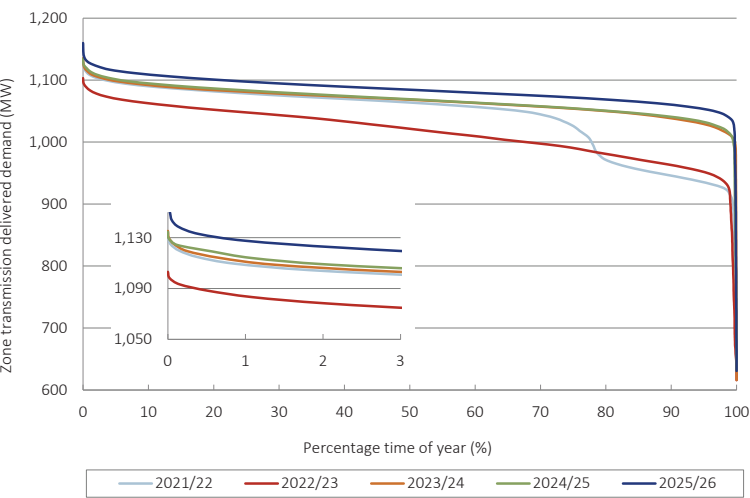
Barcaldine Solar Farm	Non-scheduled
German Creek Power Station	Non-scheduled
Longreach Solar Farm	Non-scheduled
Oakey Creek Power Station	Non-scheduled
Barcaldine Power Station	Scheduled
Clermont Solar Farm	Semi-scheduled
Emerald West Solar Farm	Semi-scheduled
Middlemont Solar Farm	Semi-scheduled

Transmission lines vulnerable to lightning

Transmission lines	End date	Category
Nil		

Gladstone zone overview

Demand duration curves

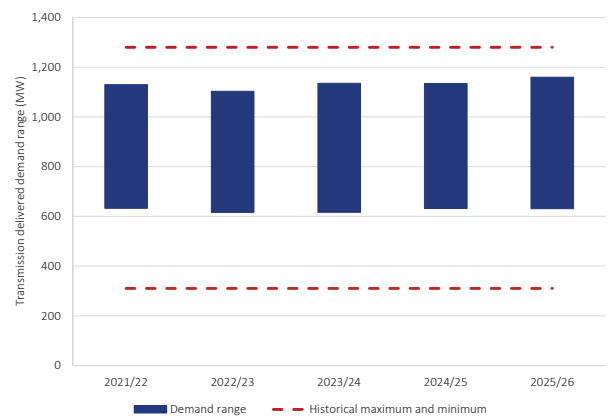
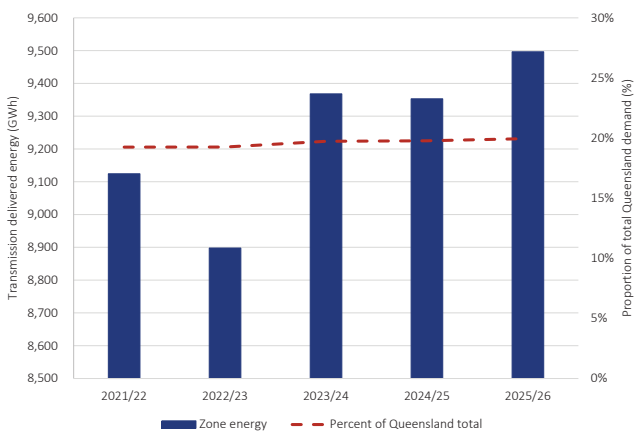


0

LOAD LOSS EVENTS

from a single network
element outage

Demand and energy trends



Embedded generation

0GWh

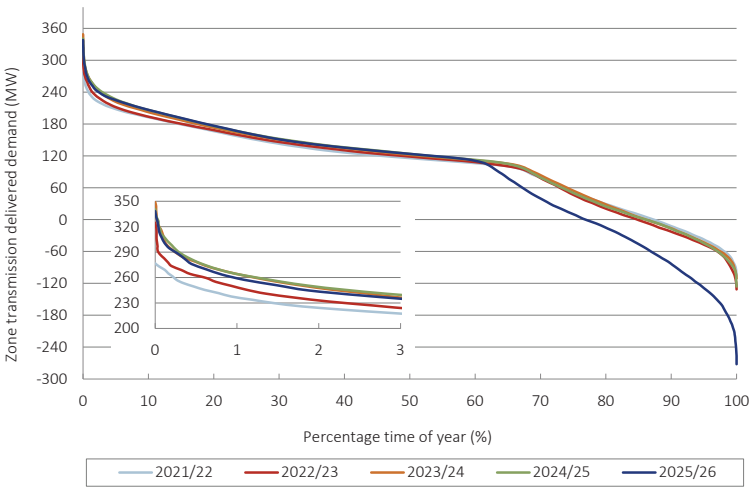
Nil

Transmission lines vulnerable to lightning

Transmission lines	End date	Category
Nil		

Wide Bay zone overview

Demand duration curves

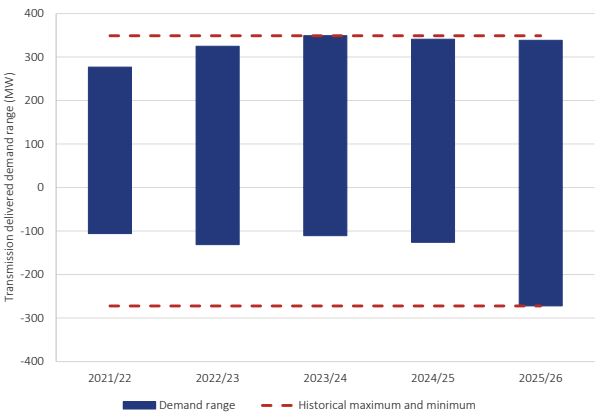
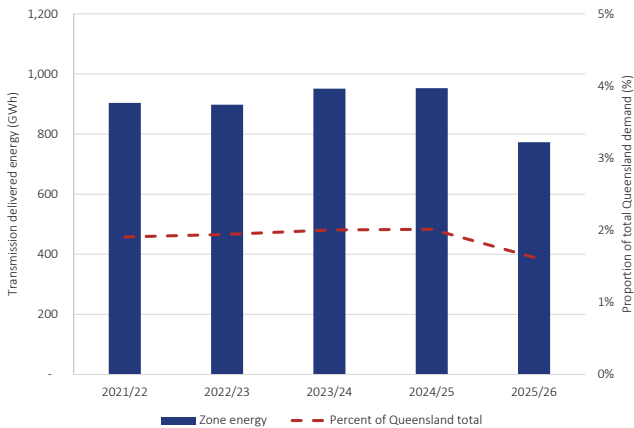


0

LOAD LOSS EVENTS

from a single network
element outage

Demand and energy trends



Embedded generation

315GWh

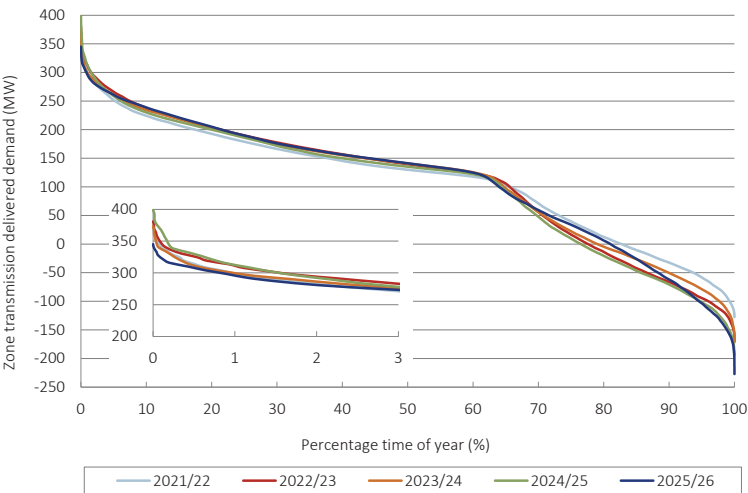
Bundaberg Solar Farm	Semi-scheduled
Childers Solar Farm	Semi-scheduled
Munna Creek Solar Farm	Semi-scheduled
Susan River Solar Farm	Semi-scheduled

Transmission lines vulnerable to lightning

Transmission lines	End date	Category
Nil		

South West zone overview

Demand duration curves

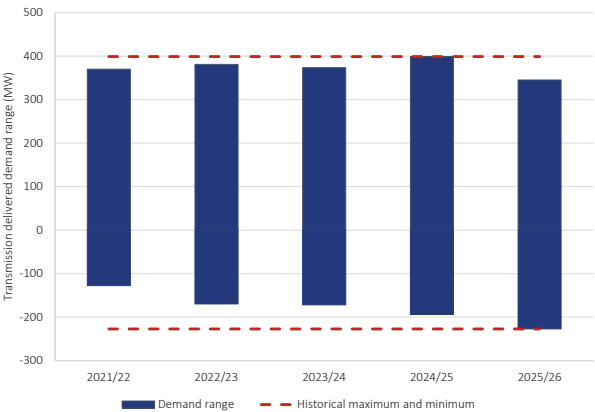
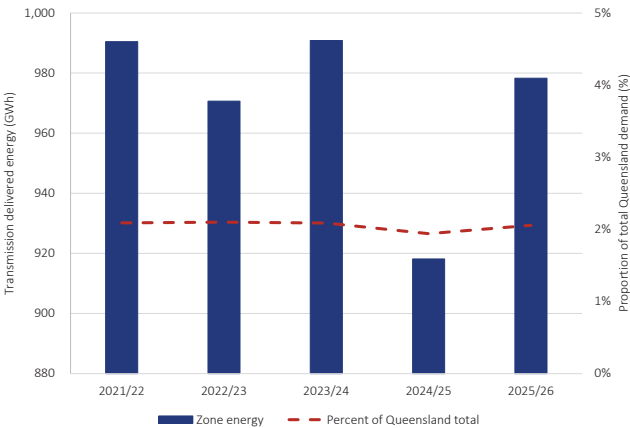


0

LOAD LOSS EVENTS

from a single network
element outage

Demand and energy trends



Embedded generation

377GWh

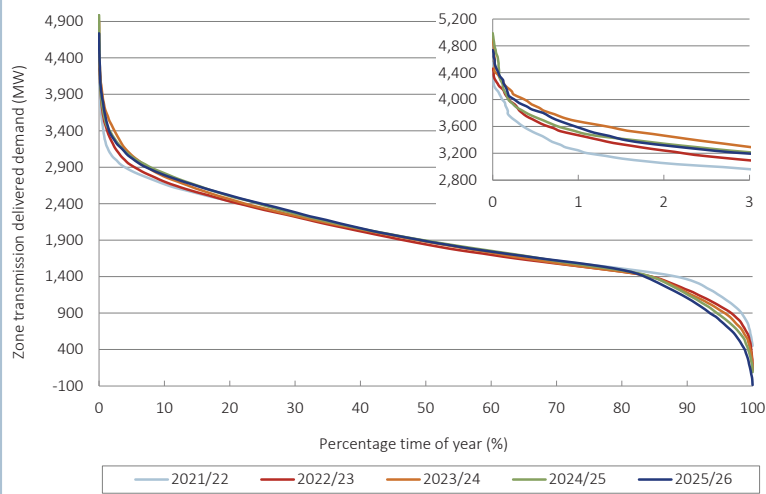
Daandine Power Station	Non-scheduled
Kingaroy Solar Farm	Semi-scheduled
Maryborough Solar Farm	Semi-scheduled
Yarranlea Solar Farm	Semi-scheduled
Oakey 1 and 2 solar farms	Semi-scheduled
Warwick Solar Farm	Semi-scheduled

Transmission lines vulnerable to lightning

Transmission lines	End date	Category
Nil		

Moreton zone overview

Demand duration curves

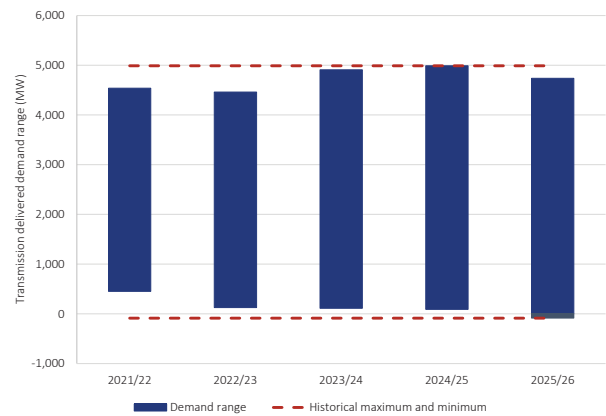
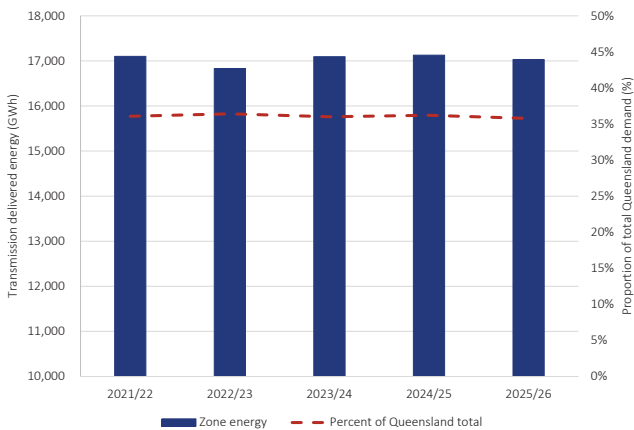


0

LOAD LOSS EVENTS

from a single network
element outage

Demand and energy trends



Embedded generation

65GWh

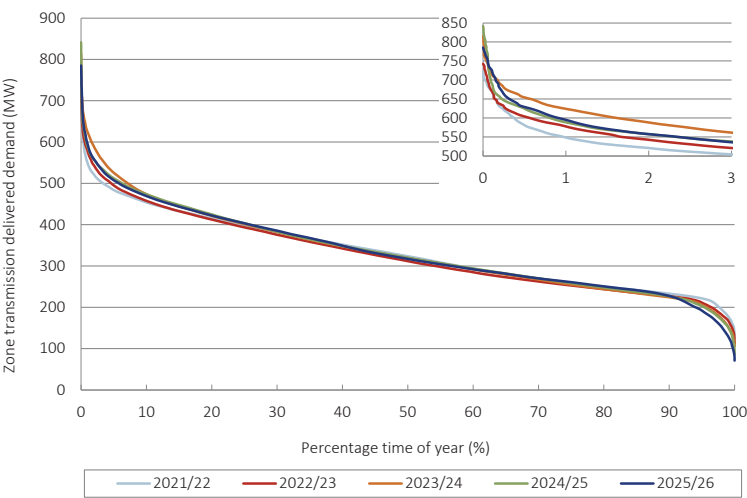
Rocky Point Sugar Mill	Non-scheduled
Valdora Solar Farm	Non-scheduled

Transmission lines vulnerable to lightning

Transmission lines	End date	Category
Nil		

Gold Coast zone overview

Demand duration curves

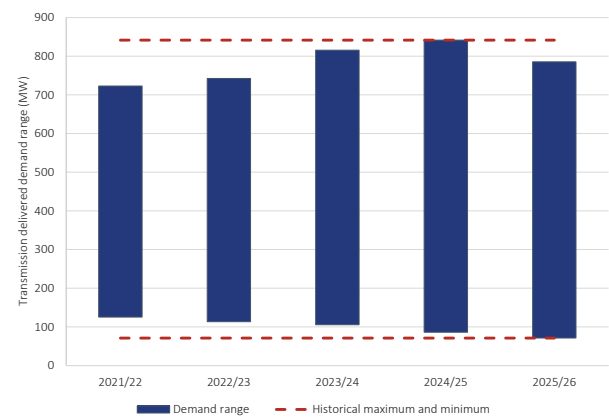
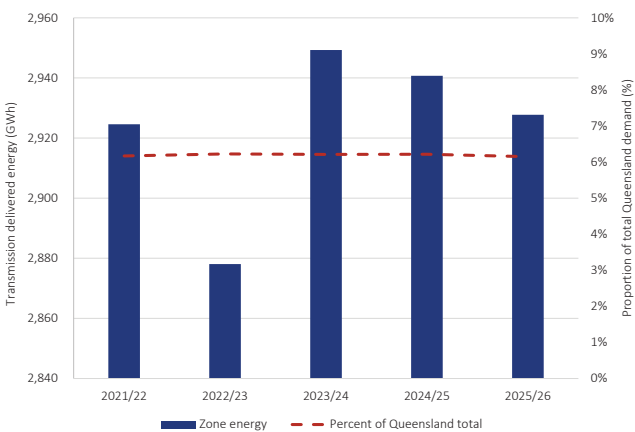


0

LOAD LOSS EVENTS

from a single network
element outage

Demand and energy trends



Embedded generation

0GWh

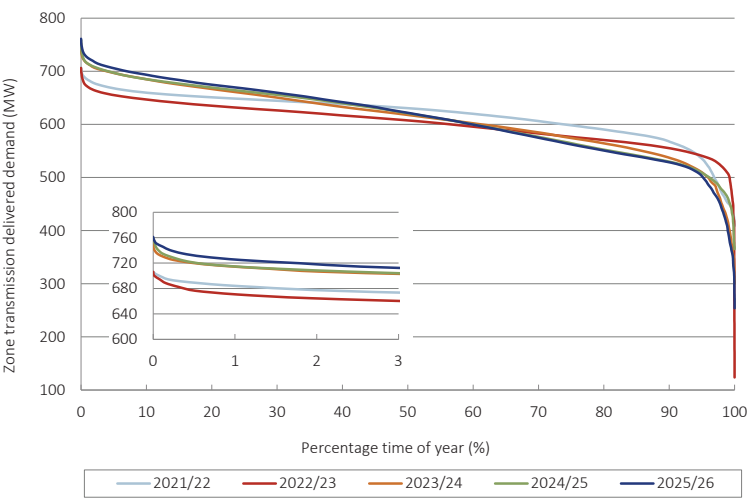
Nil

Transmission lines vulnerable to lightning

Transmission lines	End date	Category
Nil		

Surat zone overview

Demand duration curves

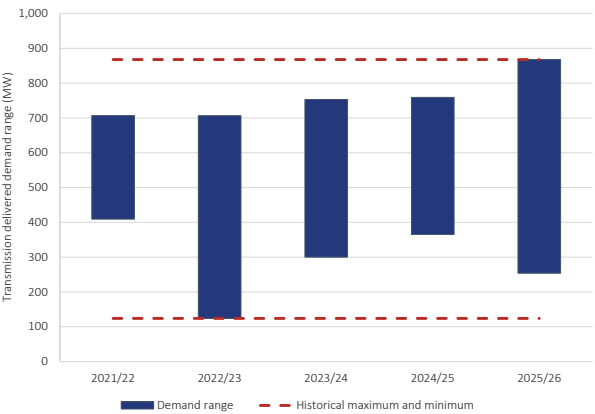
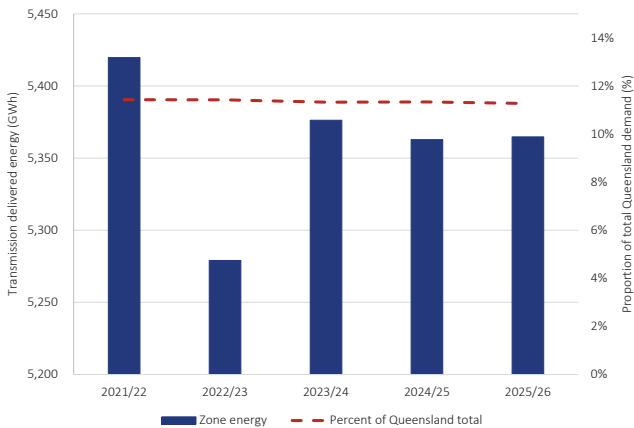


0

LOAD LOSS EVENTS

from a single network
element outage

Demand and energy trends



Embedded generation

682GWh

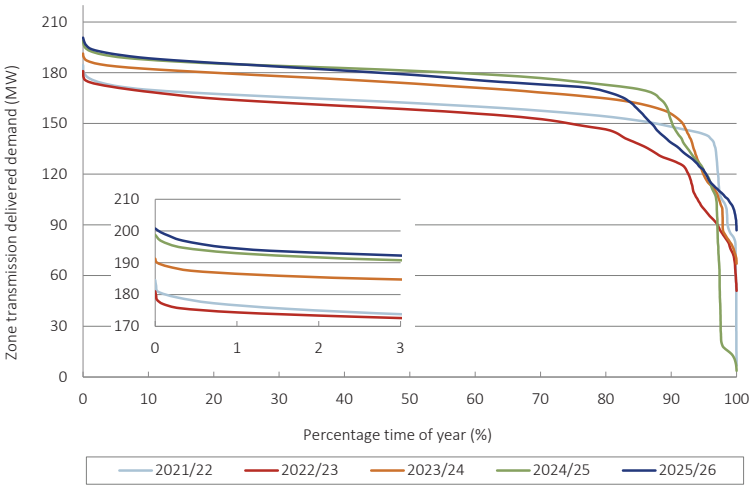
Baking Board Solar Farm	Non-scheduled
Roma Power Station	Scheduled
Dulacca Wind Farm	Semi-scheduled

Transmission lines vulnerable to lightning

Transmission lines	End date	Category
Nil		

Bulli zone overview

Demand duration curves

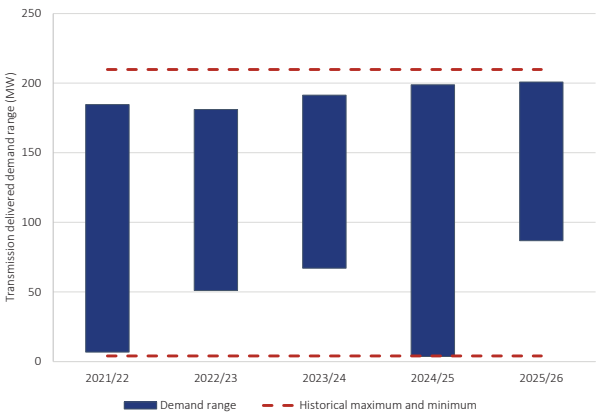
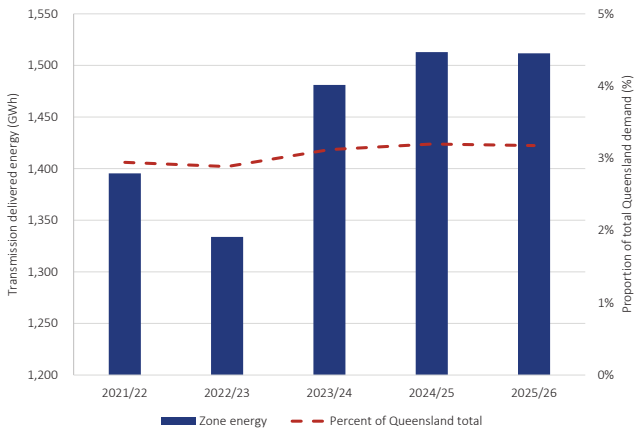


0

LOAD LOSS EVENTS

from a single network
element outage

Demand and energy trends



Embedded generation

56GWh

Gunsynd Solar Farm

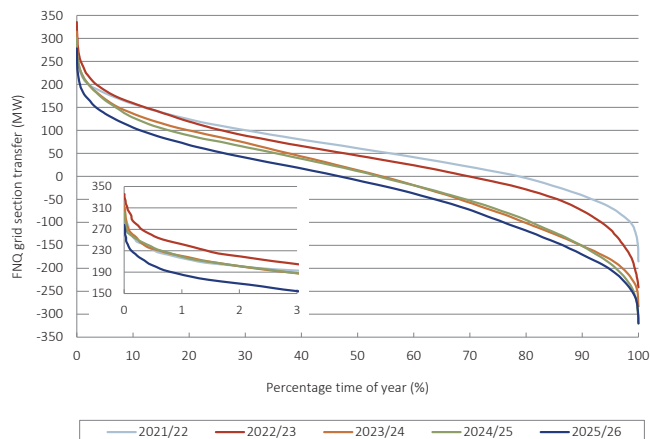
Semi-scheduled

Transmission lines vulnerable to lightning

Transmission lines	End date	Category
Nil		

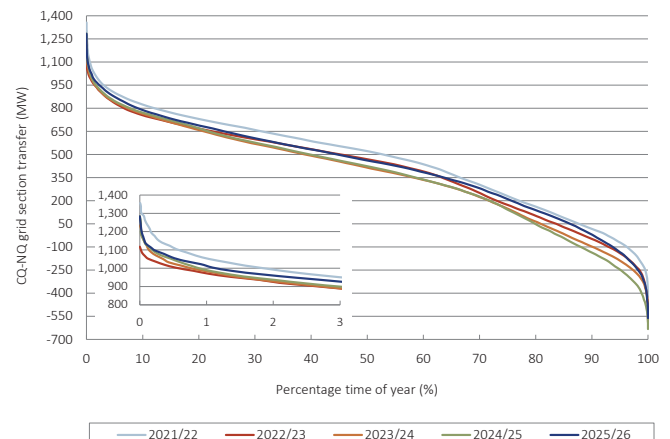
Grid section overview

Ross to Far North flows



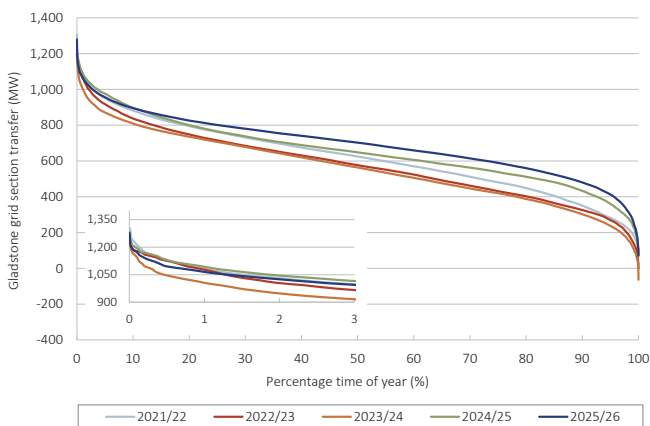
Average flows into the Far North Queensland zone have decreased in the last year, continuing the trend from recent years.

Central to North Queensland flows



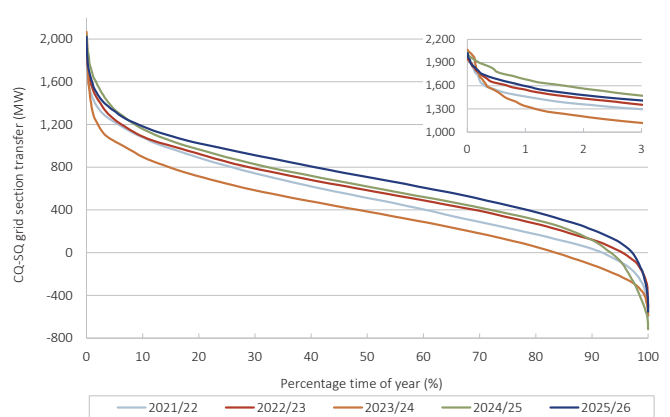
Flows between Central and North Queensland zones have remained consistent over recent years.

Gladstone grid section flows



Flows into the Gladstone zone have increased due to reduction in average generation within the zone.

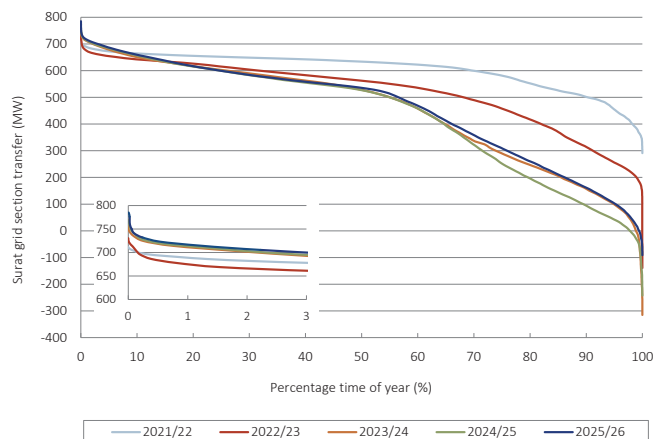
Central to South Queensland flows



Average flows on CQ-SQ have increased in recent years, largely due to new generation in the Central West zone.

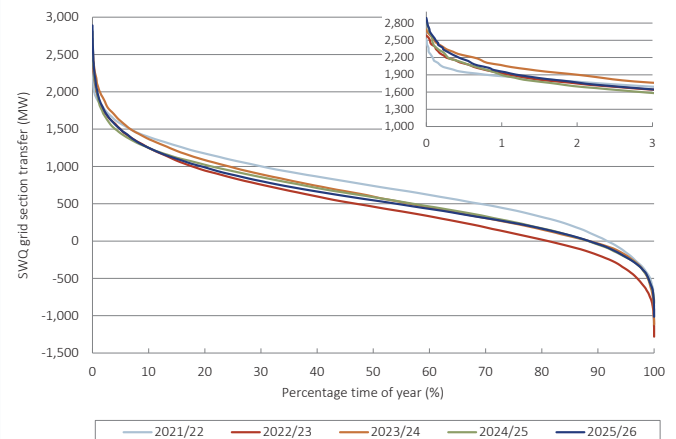
Grid section overview

Surat grid section flows



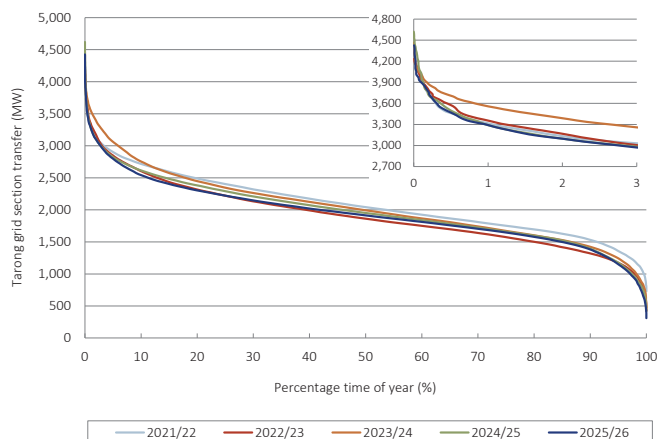
Flows on the Surat grid section have decreased in recent years due to new generation in the zone. Maximum flows remain high.

South West Queensland grid section flows



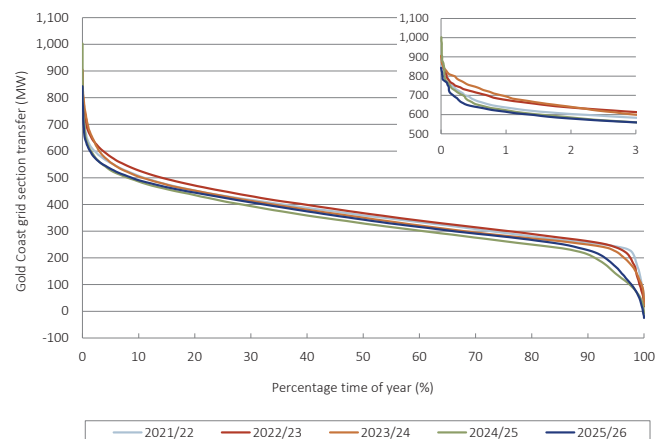
Flows between Bulli and South West zones have remained consistent in recent years.

Tarong grid section flows



Flows between Tarong and Moreton zones have remained consistent in recent years.

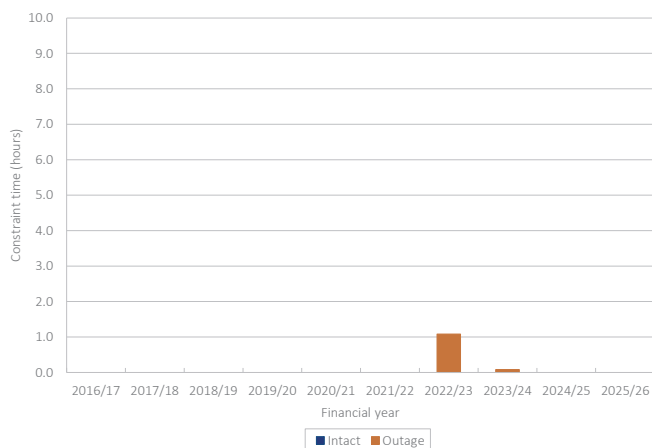
Gold Coast grid section flows



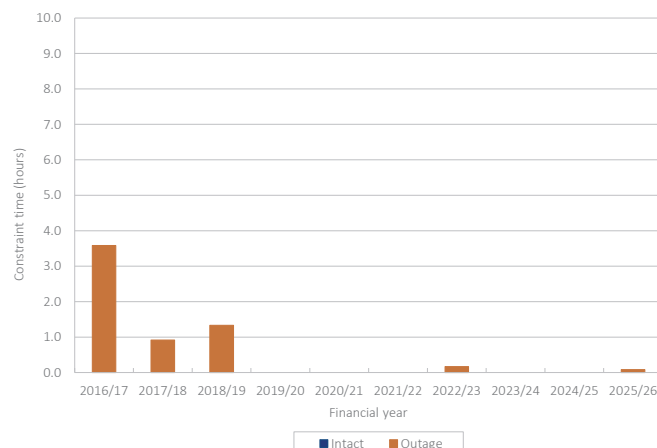
The only change to the Gold Coast flows is a decrease at the lower end of the curve. This reflects the impact of rooftop PV installations.

Network constraint overview

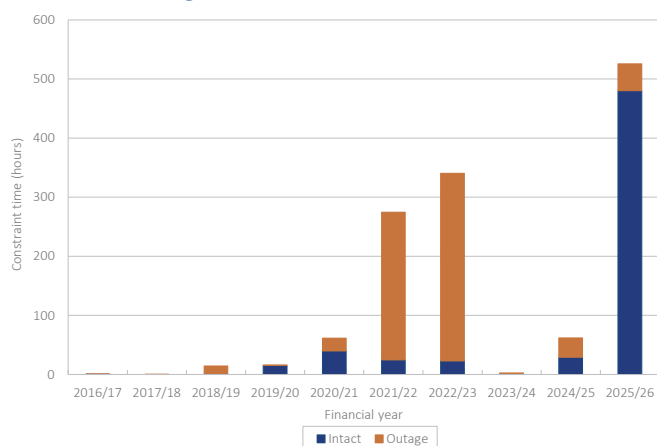
Far North Queensland grid section



CQ-NQ grid section

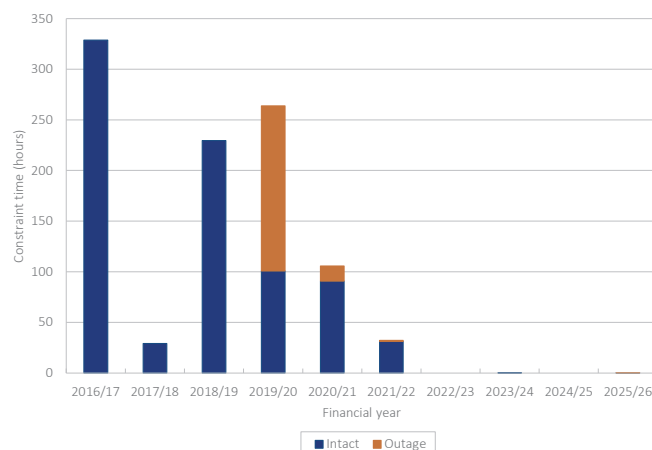


Gladstone grid section

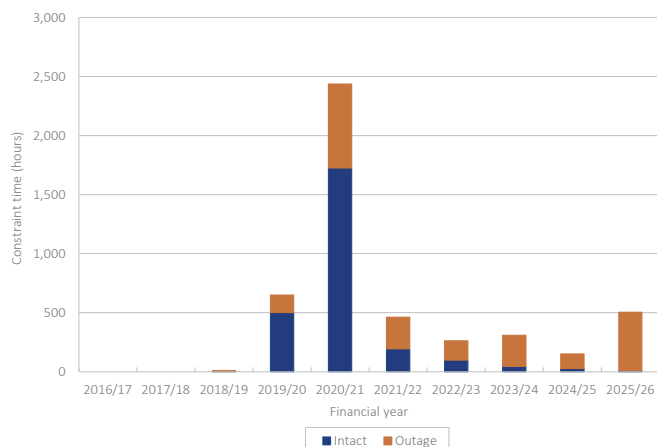


Constrained operation due to higher flows across Gladstone grid section and Aldoga Solar Farm output driving thermal limits on Larcom Creek to Calliope River feeder.

Boyne Island 132kV feeder bushing



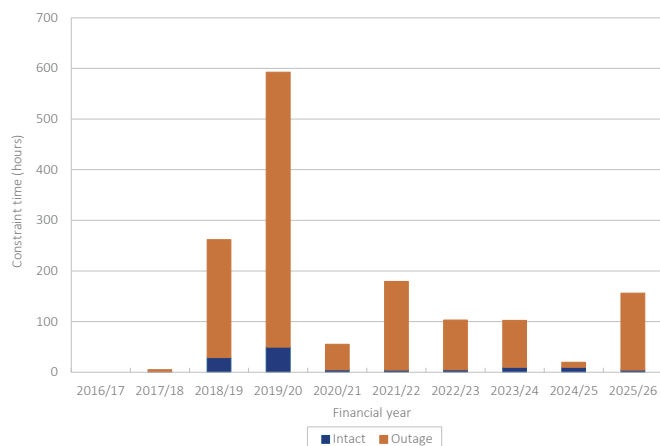
North Queensland system strength



NQ inverter-based renewable generation still being constrained under outage conditions but mostly unconstrained under system normal conditions.

Network constraint overview

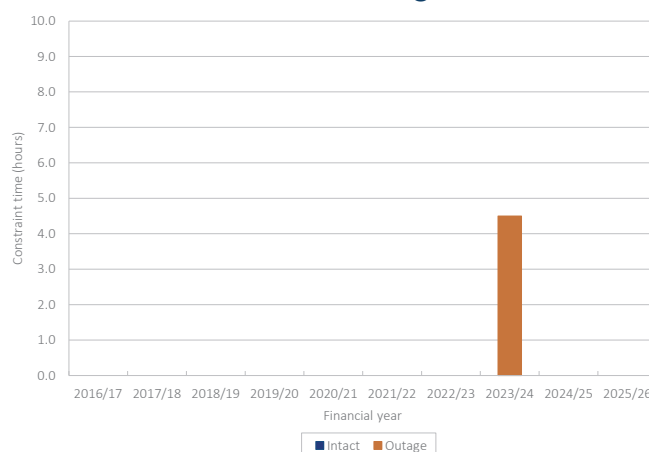
CQ-SQ grid section



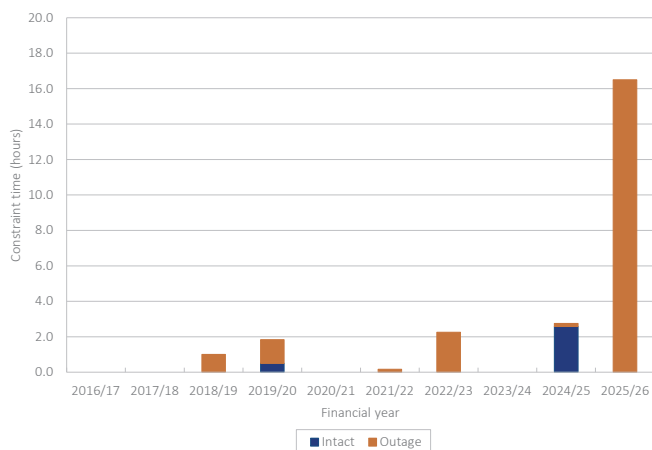
Increased constraints between Central and Southern Queensland due to planned maintenance on the coastal 275kV circuits.

South West Queensland grid section remains unconstrained for another year despite an increase in generation in the Bulli zone.

South West Queensland grid section

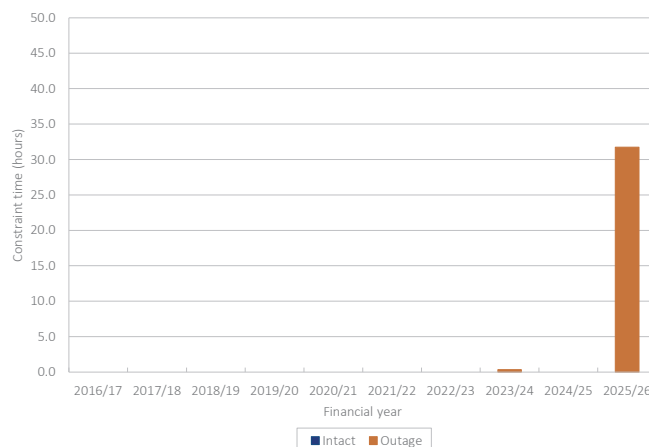


Tarong grid section



The Tarong grid section was constrained during planned activities associated with the substation replacement works.

Gold Coast grid section



The Gold Coast grid section experienced 30 hours of constrained operation due to planned maintenance activities on the 275kV feeders south of Greenbank.