

# Agenda



9.00am	Welcome
9.05am	CE address – State of the Network
9.45am	2023-27 Revenue Determination Process
10.15am	Power System Planning
10.30am	Q&A Panel Session
10.55am	Wrap up and thank you
11.00am	Next steps

### Agenda



Welcome 9.00am 9.05am CE address – State of the Network Carried Markets and Markets and the 9.45am 2023-27 Revenue Determination Process The state of the s 10.15am Power System Planning 10.30am **Q&A Panel Session** 10.55am Wrap up and thank you 11.00am Next steps





2 TRANSMISSION NETWORK 1,700KN CAIRNS TO NSW 15,339 KMS CUSTOMERS **OF LINES** 

NETWORK CONNECTIONS LARGE-SCALE GENERATORS

#### Customers at the centre





## Supporting Queensland during COVID-19 pandemic





## Balancing rapid transformation



- System strength
- Minimum demand
- Network constraints
- Broader market impacts

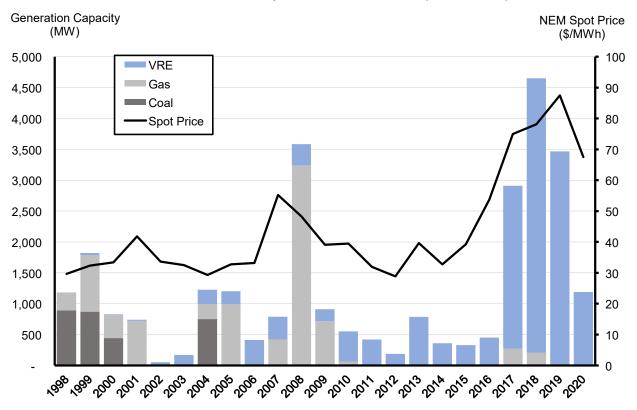
**CHALLENGES** 

**OPPORTUNITIES** 

### NEM supply-side dynamics

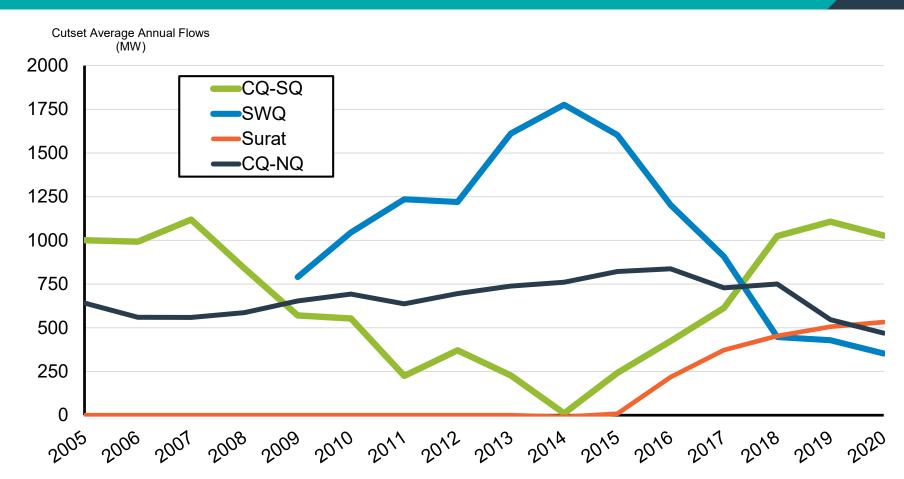


#### **NEM total entrant plant commitments (1998-2020)**



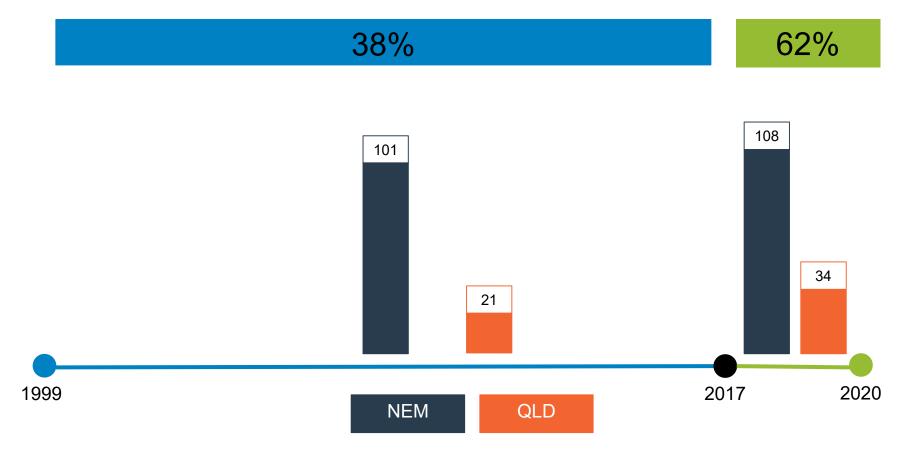
## Average flows and price





## Sharp rise in network connections



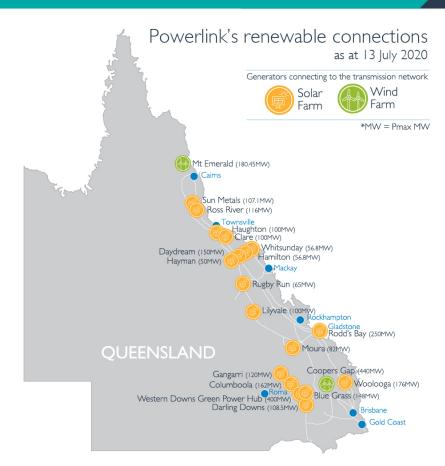


Source: ESAA

#### Growth in large-scale renewable connections



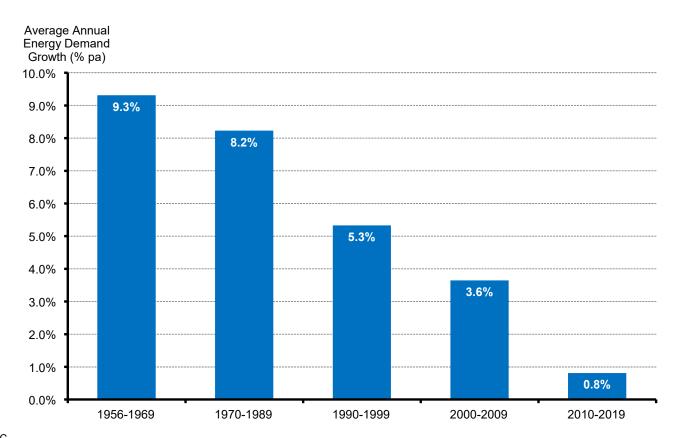
- In 2019/20 we reached connection agreement with a further seven renewable generators - 1,300+MW of generation capacity
- Number of projects in the pipeline - showing no signs of slowing



## Low demand growth environment



QLD Network Load Growth: 1955-2020

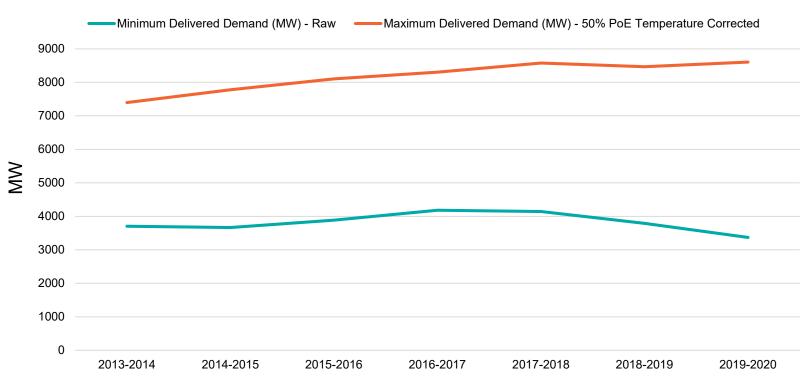


Source: ESAA, AEC

### Widening spread of demand



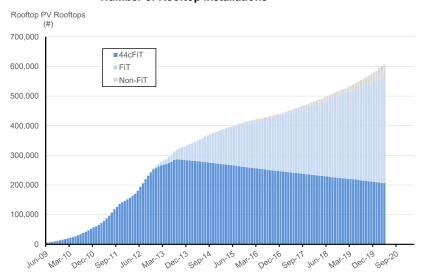
#### **Evolution of Maximum and Minimum Demand**



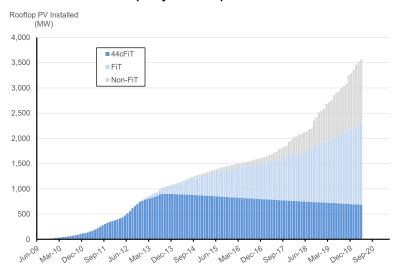
### Queensland Rooftop solar PV



#### **Number of Rooftop Installations**



#### Capacity of Rooftop Solar PV

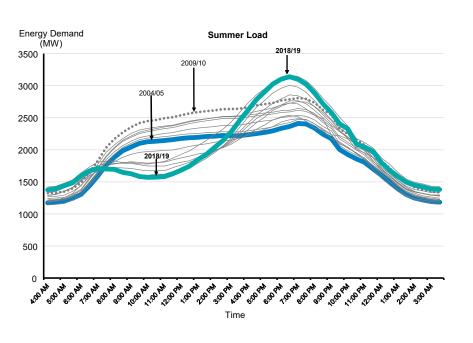


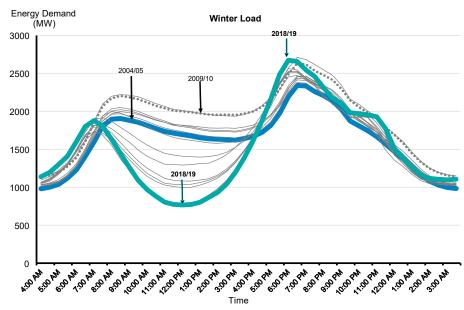
Sources: Energex, Ergon

#### Residential & SME final demand



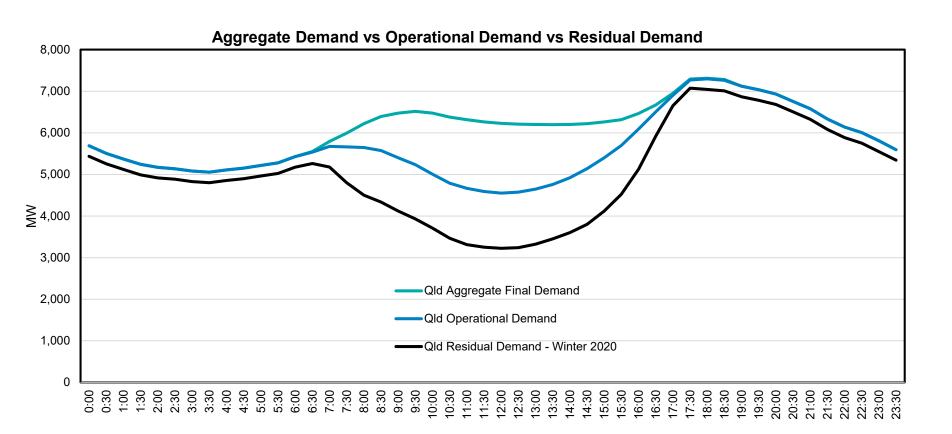
#### Qld 'Mass Market' Net System Load Profile (90-day summer & winter average)





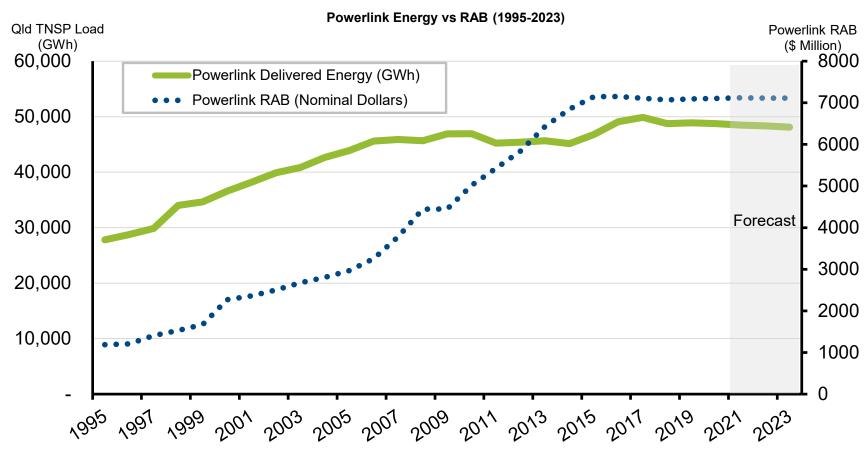
#### Queensland final demand





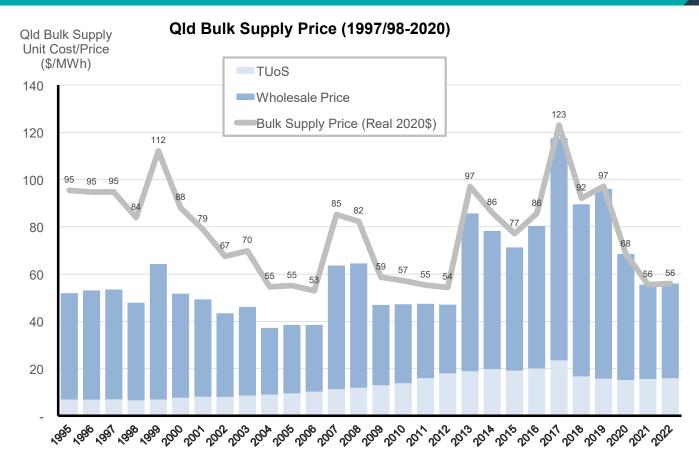
### Powerlink delivered energy





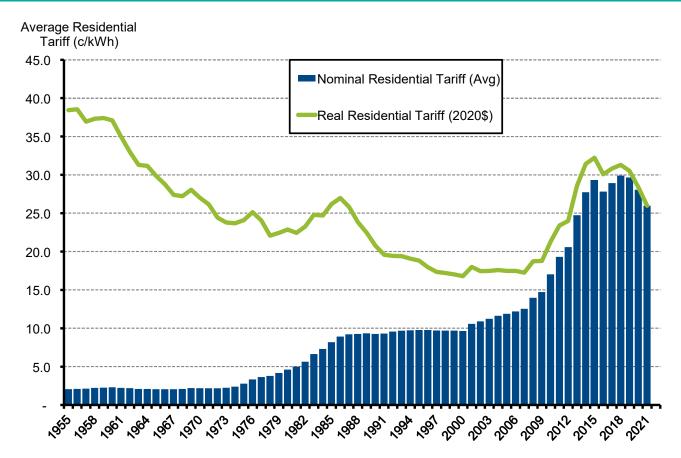
#### Queensland bulk supply price





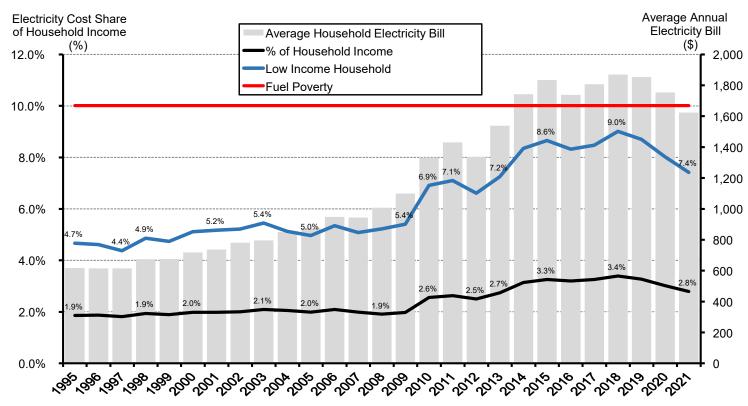
#### Queensland Residential Tariffs (Average)





### Electricity Bill and Household Income (pre-concession)





Sources: ABS, ESAA, AEC, QCA

Fuel poverty: household cannot afford its energy supply at reasonable cost, given its income (i.e. > 10% of disposable income).

## Revenue Determination engagement goal



To undertake engagement to deliver a Revenue Proposal that is capable of acceptance by our customers, the Australian Energy Regulator and Powerlink.

