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Outline

- Key drivers
 - Challenges
 - Stakeholder consultation

- Revenue proposal
 - Current period performance
 - Forecast capital expenditure
 - Forecast operating expenditure
 - Overall revenue requirement

- Impact on prices



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Key drivers

- Demand growth
 - Maintaining reliability of supply
 - Resource growth
- Transmission supporting lower emissions NEM
- Replacing aged assets
- Challenges



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Powerlink's transmission network

- Transmission network runs 1,700km from Cairns to NSW – approximately half of Australia's eastern seaboard
- Network dimensions
 - More than 13,000 circuit kilometres of transmission lines
 - 112 high voltage substations
- Transmit power about three times as far as other states – e.g. 700km from major power stations to load centres

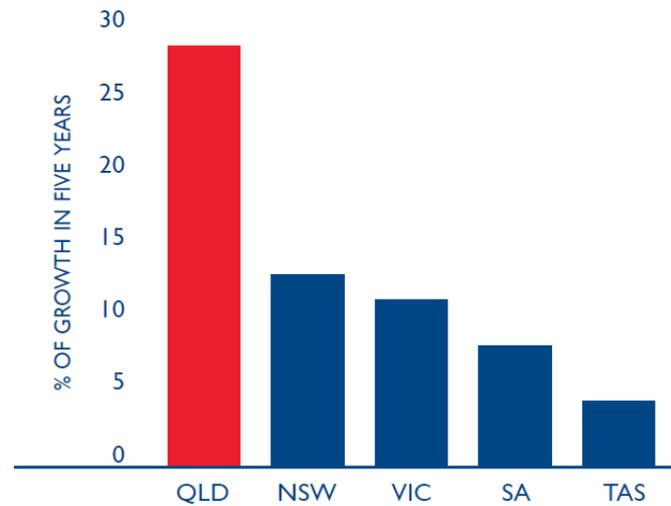


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Queensland's growth vs other states

- Queensland's peak demand growth is higher than other states in the National Electricity Market

Forecast growth in electricity demand from
2010/11 to 2015/16



SOURCE: AEMO'S 2010 ELECTRICITY STATEMENT OF OPPORTUNITIES



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Complexity challenges

- 2010/11 summer demand
 - adversely affected by significant loads that went offline for extended periods due to floods and cyclone
 - one large coal miner, BMA, reported its production in calendar 2011 Q1 was down by 25%
 - This will recover - anomaly in the trend line

- Queensland hasn't had a 'stinking hot and humid' summer since 2003/04

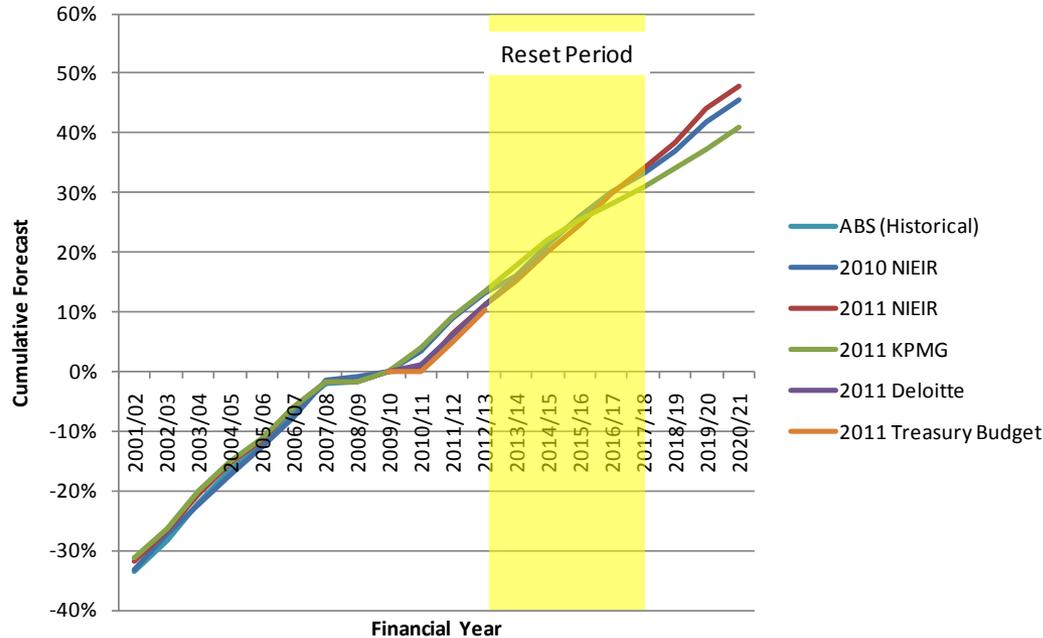
- Mixed economic growth patterns
 - Tourism regions e.g. Cairns adversely affected by high \$A
 - dwarfed by the emergence and ramp up of very large new loads in the resources sector (LNG, coal) across the State



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Economic outlook

Queensland GSP Forecasts



"...businesses are still complaining loudly about the weakness of the economy. Yet that rebound will come: coal output will lift sharply, reconstruction and repair work will begin on homes and infrastructure..."

Economic Business Outlook,
Deloitte's March 2011



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Resources ramp-upbigger than ever!

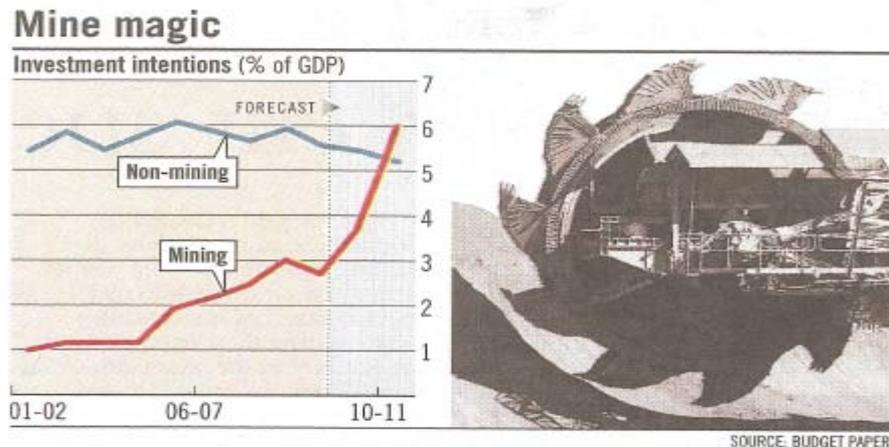
- Powerlink has over 3,000MW (not including already-committed Surat Basin load) of active connection enquiries for new loads seeking direct connection to the grid:
 - Surat Basin – many upstream processing and compression plants, and some new coal mines, water treatment and service towns
 - Bowen Basin (CQ) – new and expanded coal mines, increased electric rail haul capacity, new and existing port expansions (Gladstone, Mackay ports)
 - North Bowen Basin / Galilee Basin (NQ) – new and expanded coal mines, rail haul capacity increases, port expansions (Abbot Point)
- Only approximately 300MW of the 3,000MW is included in Powerlink's demand forecast



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Investment surges to 50-year high

- ... a level of capital expenditure eight times the average annual rate ...



SOURCE: AUSTRALIAN FINANCIAL REVIEW, PAGE B7, 11 MAY 2011

- “Boom set to resound for years to come” ... coal-related port and rail developments are expected to rocket over the next five years and beyond....

SOURCE: AUSTRALIAN FINANCIAL REVIEW, PAGE 17, 12 MAY 2011



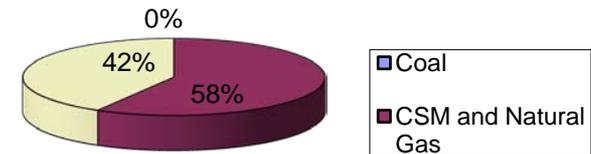
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Supporting a lower emission NEM

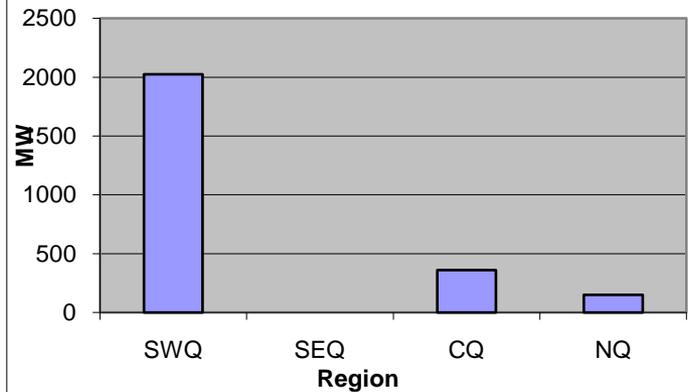
Active new generation enquiries

- all gas-fired or renewable generation
- mostly in south-west Queensland
- together with SEQ load growth driving grid augmentation SWQ-SEQ

Generation Connection Enquiries by Fuel Type



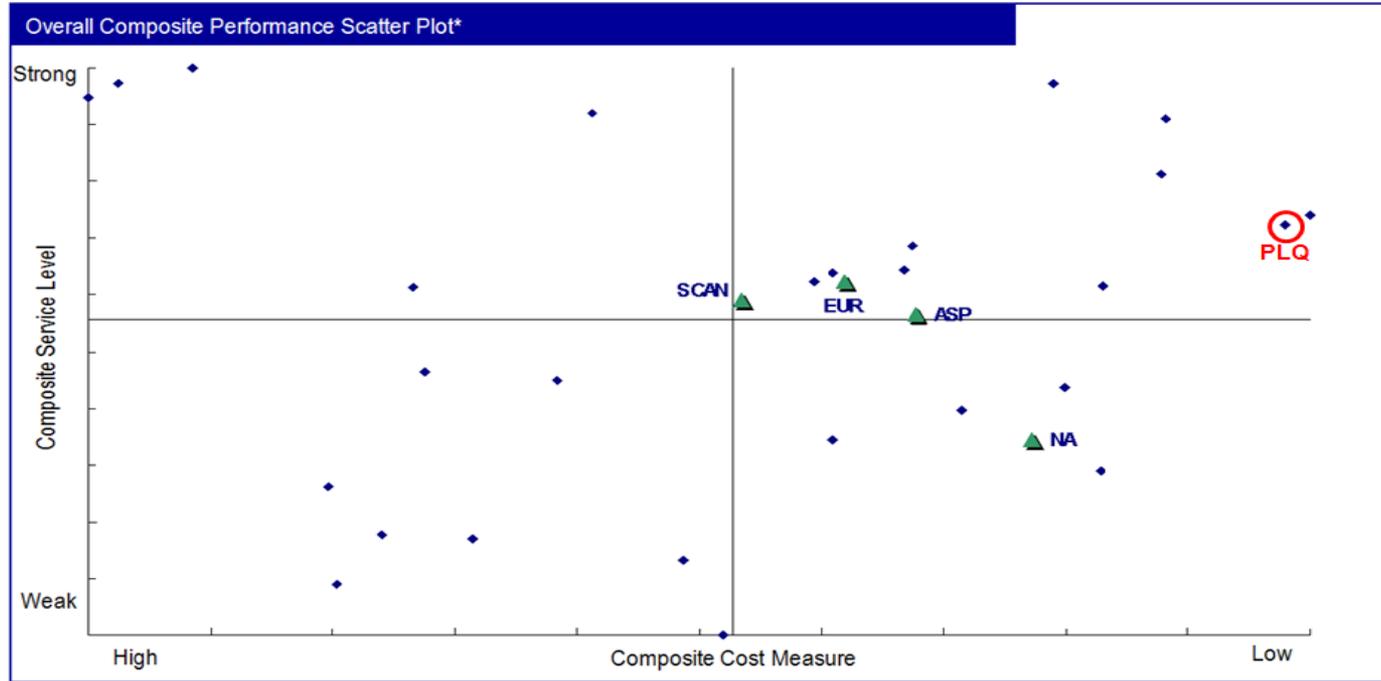
Generation Connection Enquiries by QLD Region



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Cost efficiency

Overall composite benchmark – weighted average



SOURCE: INTERNATIONAL BENCHMARKING (ITOMS 2009)



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Stakeholder consultation

- Powerlink regularly meets with its customers
 - including for revenue proposal

- Themes identified from customers
 - Importance of transmission infrastructure to Qld
 - Timeliness of augmentations needed
 - Importance of reliability and security of supply
 - Prepared to pay reasonable price
 - Very significant developments in coal and LNG will require substantial augmentation of the existing grid

- Met with EUAA and presented at Queensland and national conferences

- Liaised with AEMO regarding NTNDP



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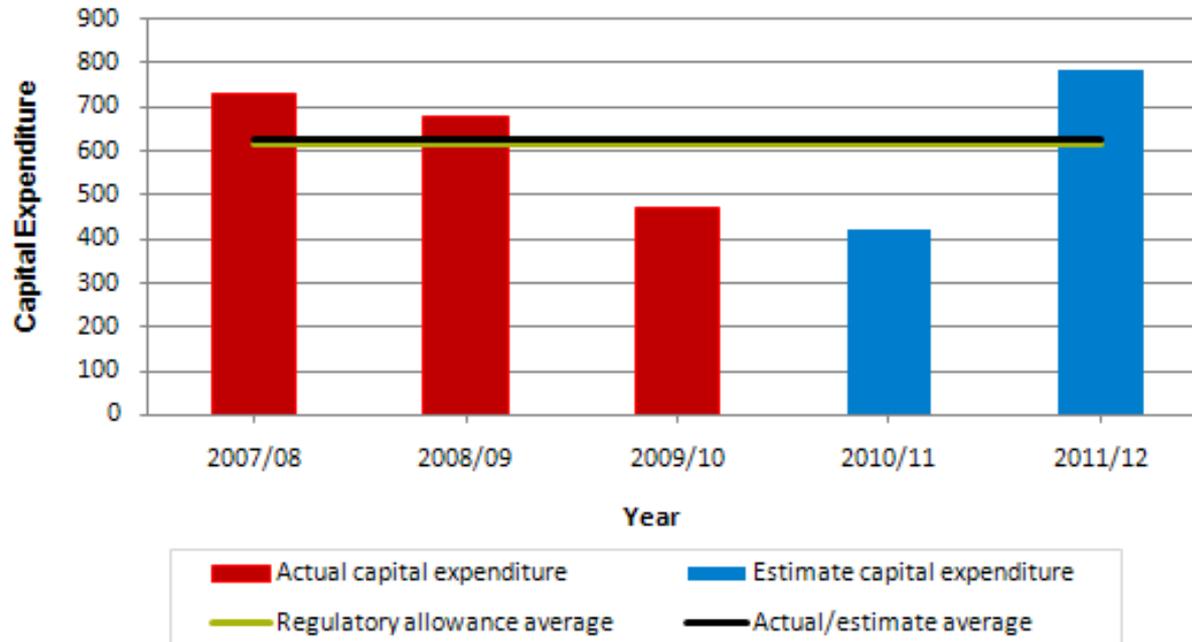
Revenue Proposal

- Current regulatory period performance

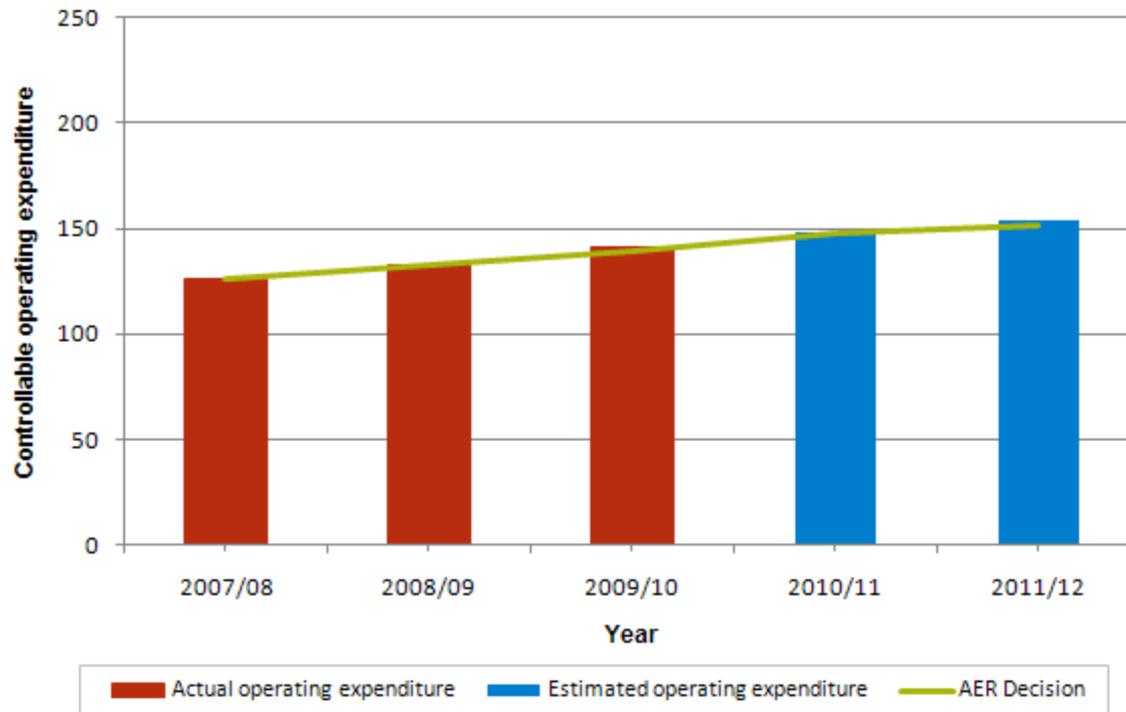


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Current period capital expenditure (2011/12)



Current period operating expenditure (2011/12)



Current period incentive scheme performance

- Efficiency Benefit Sharing Scheme
 - Small negative carry over
- Service Target Performance Incentive Scheme
 - Over the period exceeded the AER targets



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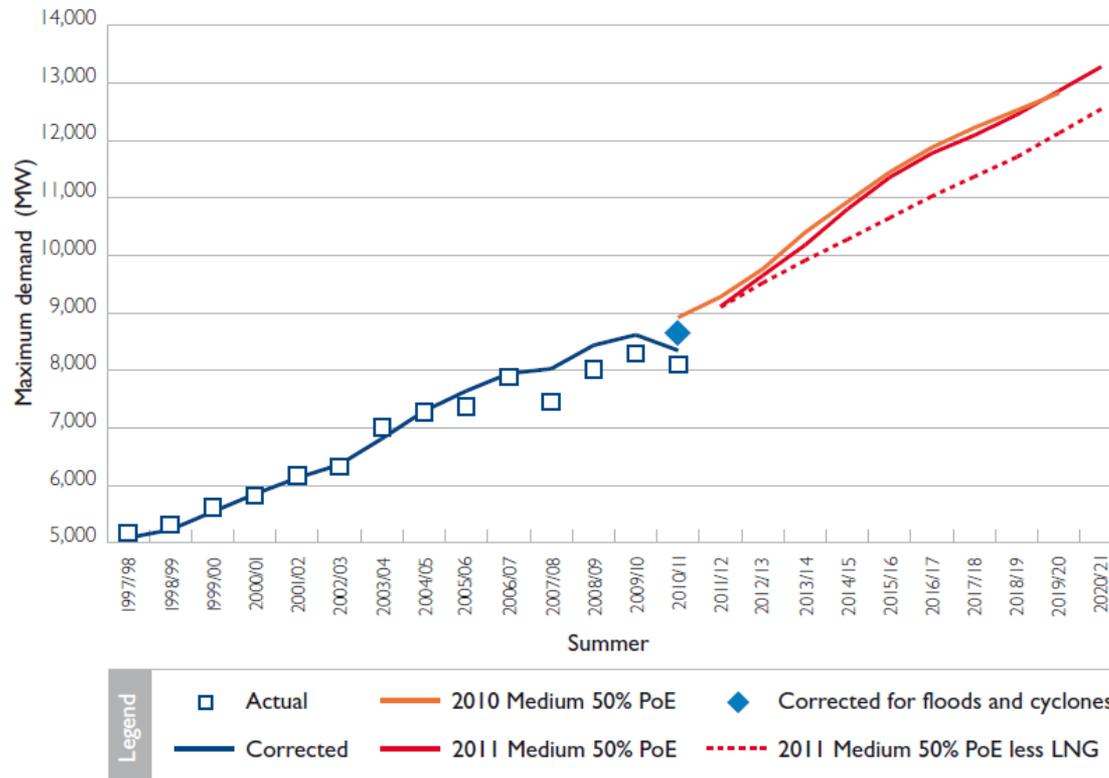
Revenue Proposal

- Forecast capital expenditure



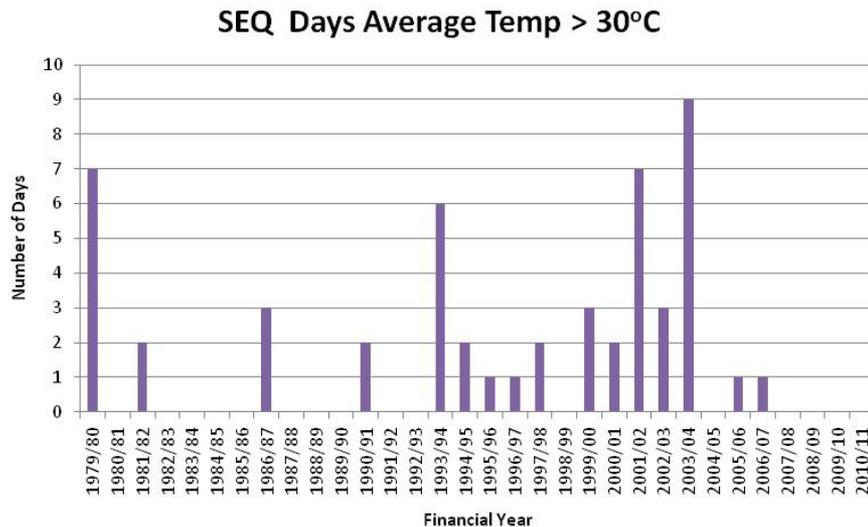
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Summer peak electricity demand – history and forecast



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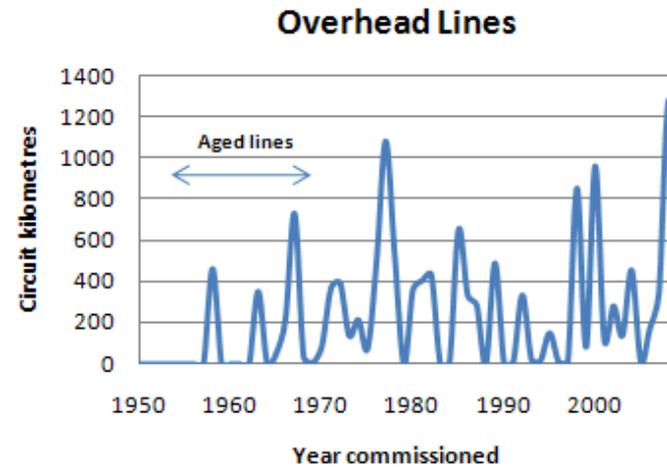
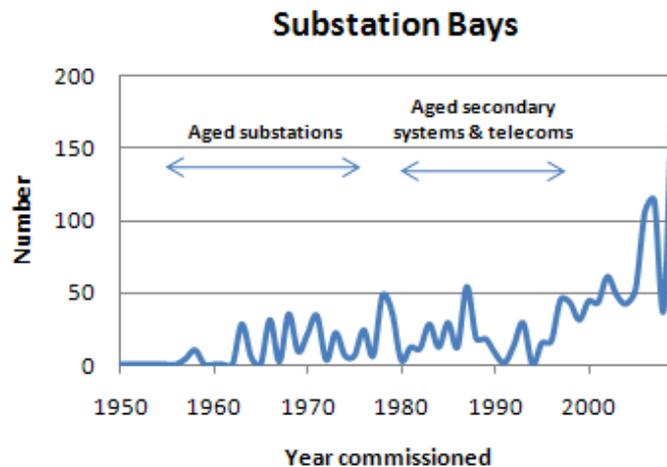
Temperature impacts on demand



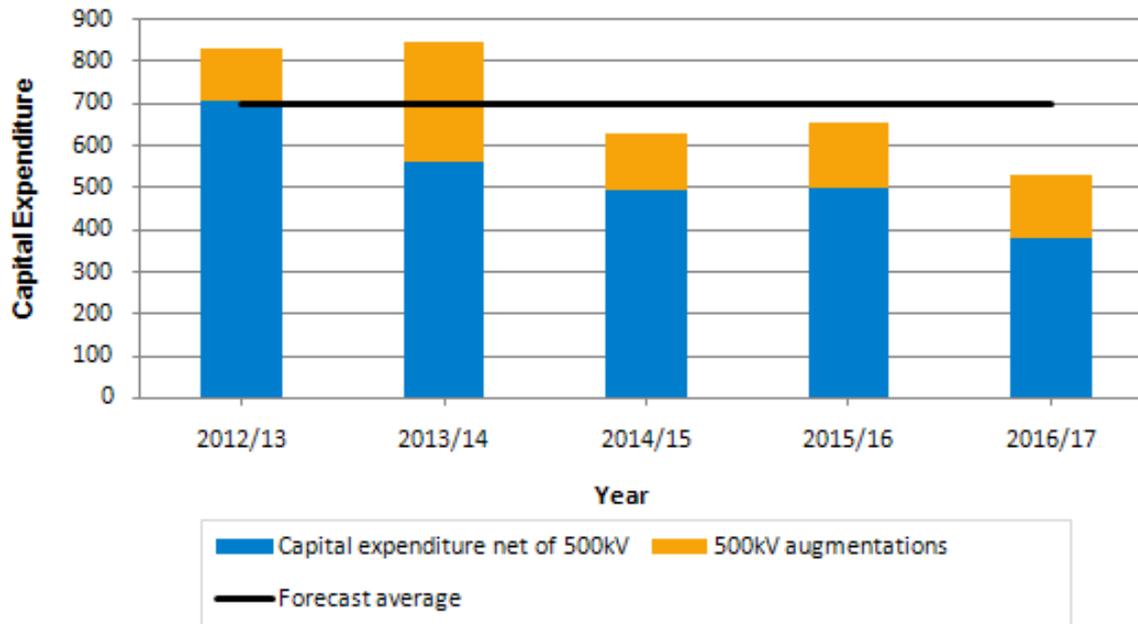
- South East Queensland “standard” summer peak conditions occur on days with 30oC daily average
- Last four summers have been milder than average – similar patterns have occurred in the past

Continuing to replace end of life assets

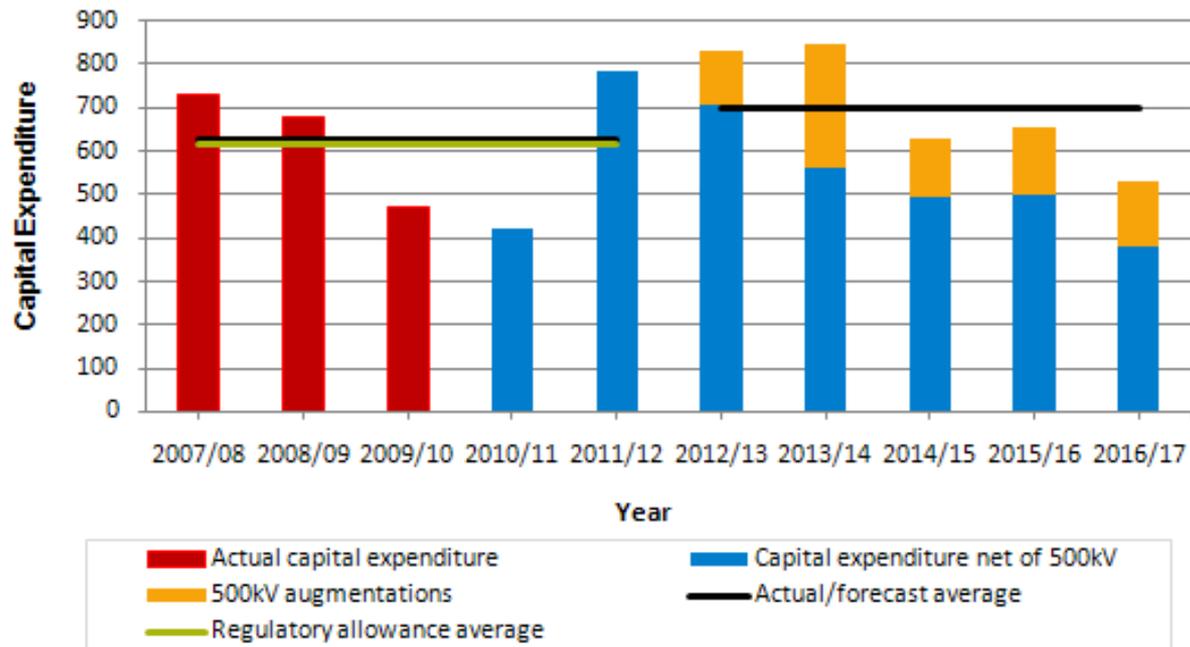
- Need timely asset replacement to maintain reliability



Forecast capital expenditure (2011/12)



Current and forecast capital expenditure comparison (2011/12)



Revenue Proposal

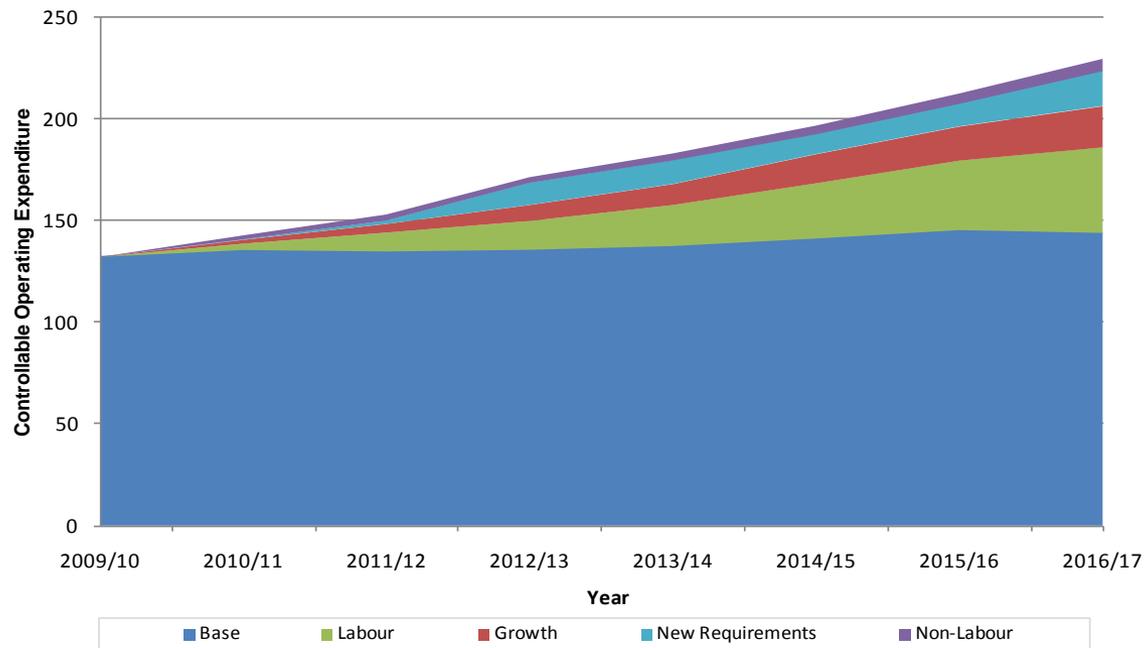
- Forecast operating expenditure



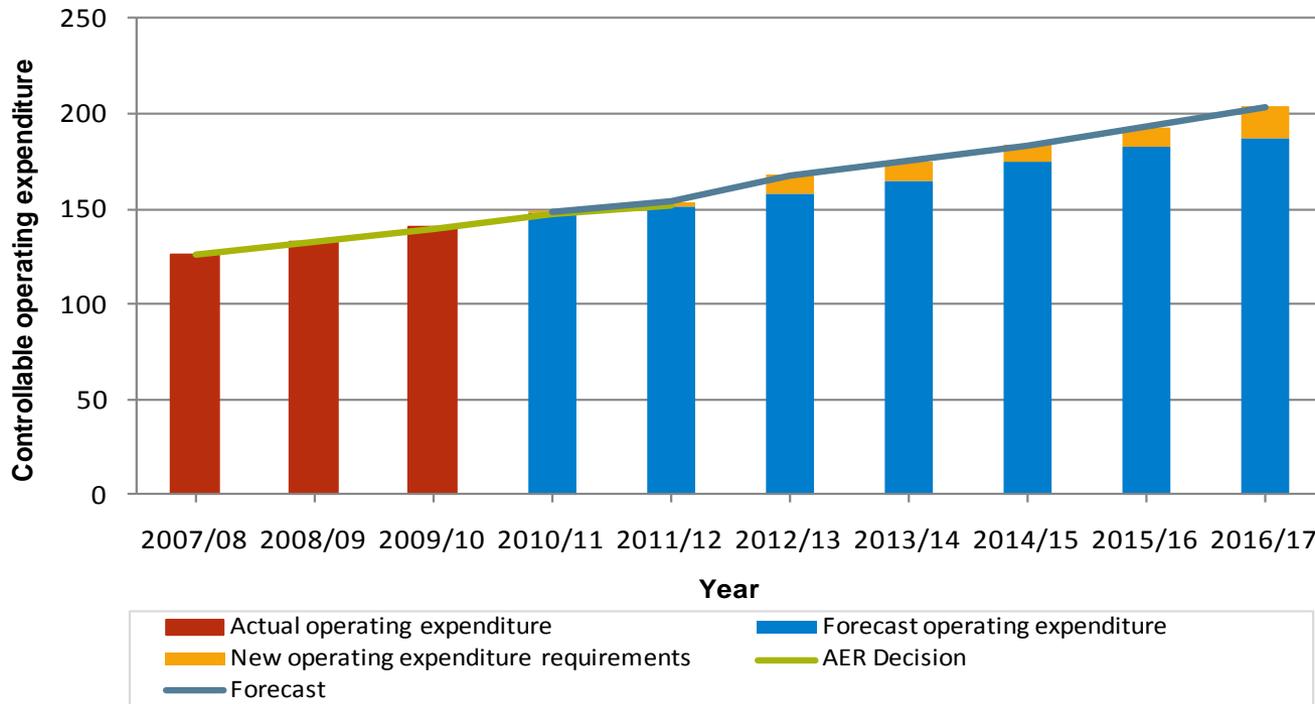
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Forecast controllable opex (nominal)

- Labour, network growth and new requirements contributing to increases

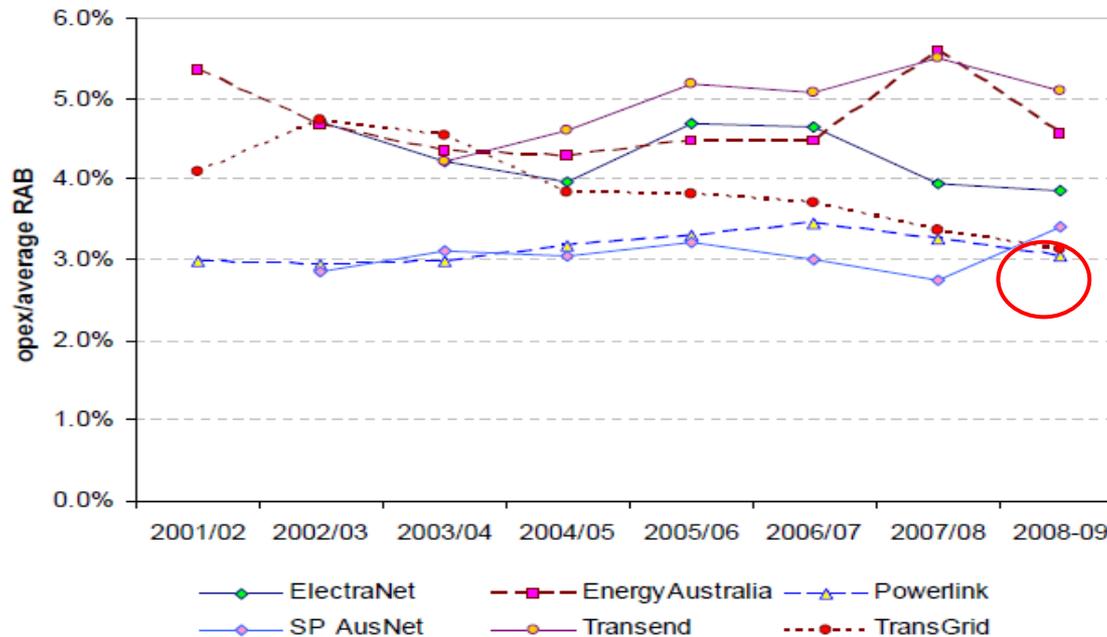


Current and forecast operating expenditure comparison (2011/12)



World-class transmission network operation

- Powerlink has lowest opex / RAB in the National Electricity Market



SOURCE: TRANSMISSION NETWORK SERVICE PROVIDERS ELECTRICITY PERFORMANCE REPORT FOR 2008-09, p.51, AER, FEBRUARY 2011.



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Revenue Proposal

- Revenue requirements



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Weighted Average Cost of Capital (WACC)

- Unlike gas and distributions networks most WACC parameters set
- WACC increased post global financial crisis
- Debt margin of 4.34% compared to current 1.41%
- Derived WACC of 10.3% compared to current 8.76%



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Revenue requirements

- Revenue calculated using the building block approach
- Maximum Allowable Revenue
 - = return on capital + return of capital + opex + tax
 - = (WACC * RAB) + depreciation + opex + tax

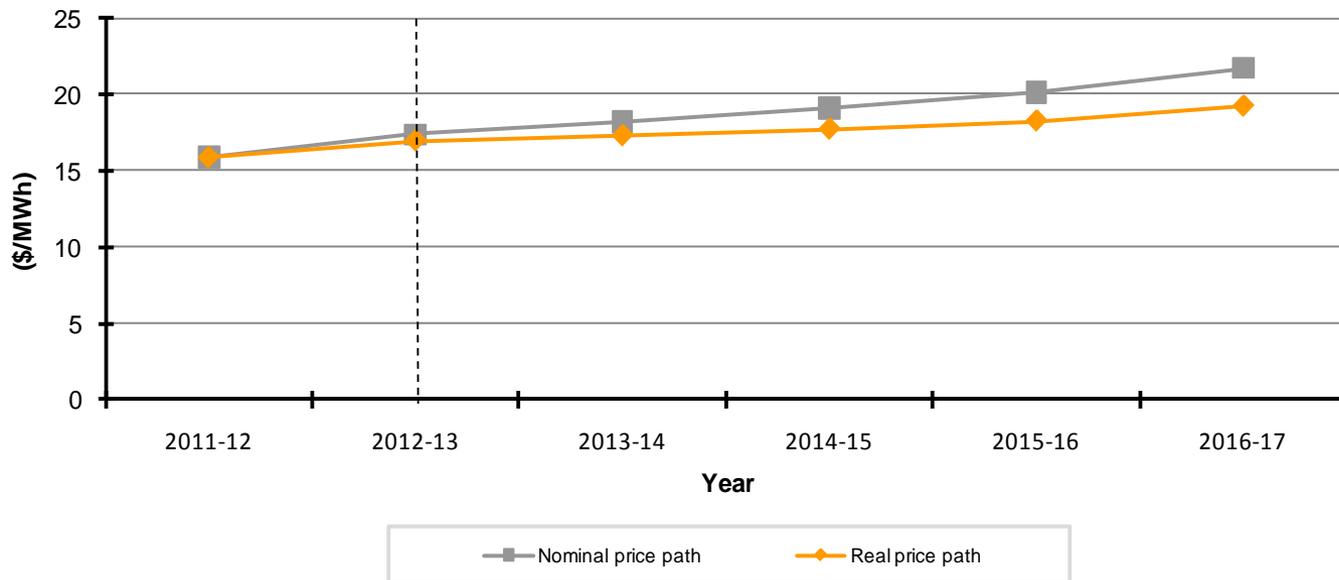
	2012/13	2013/14	2014/15	2015/16	2016/17	Total
Smoothed revenue requirement	960.6	1,064.0	1,178.5	1,305.3	1,445.7	5,954.0
X factor		-8.06%	-8.06%	-8.06%	-8.06%	

Impact on electricity consumers



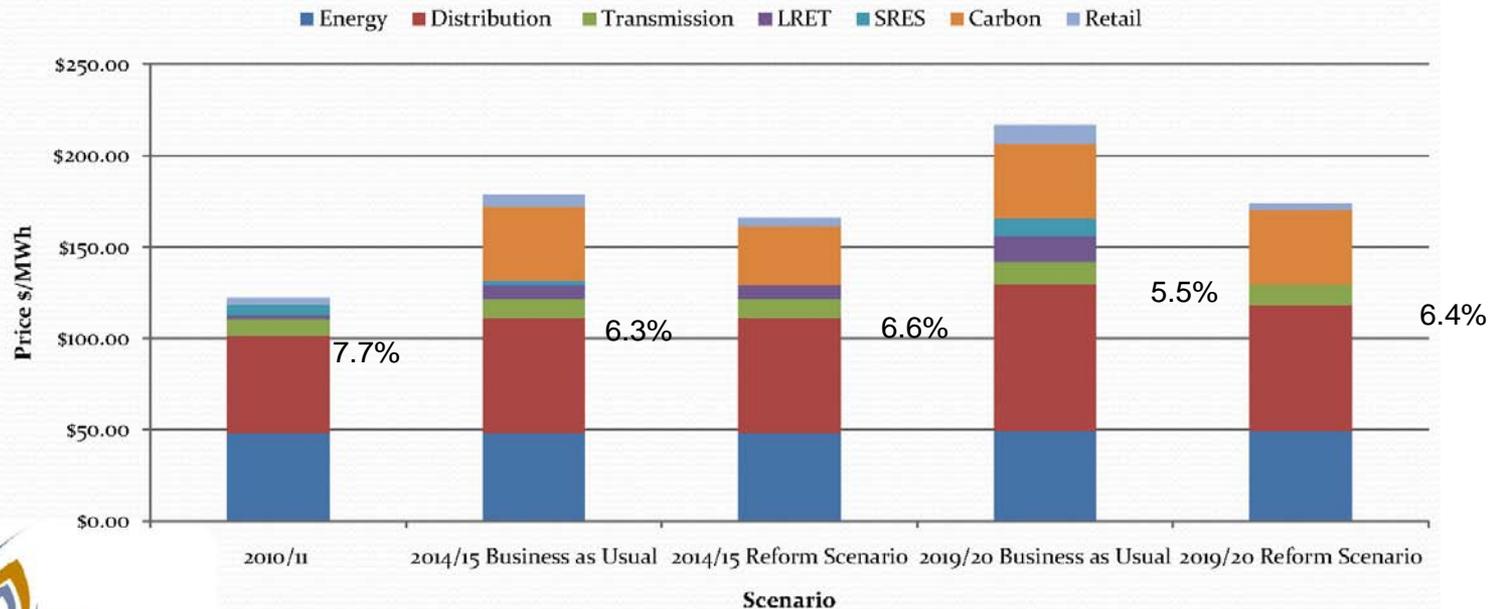
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Average transmission price path from 2011/12 to 2016/17 (\$/MWh)



Transmission is only 8% of electricity costs and forecast to be an even smaller proportion

Indicative C & I Retail Electricity Price Scenarios (\$ real 2009/10)



www.euaa.com.au



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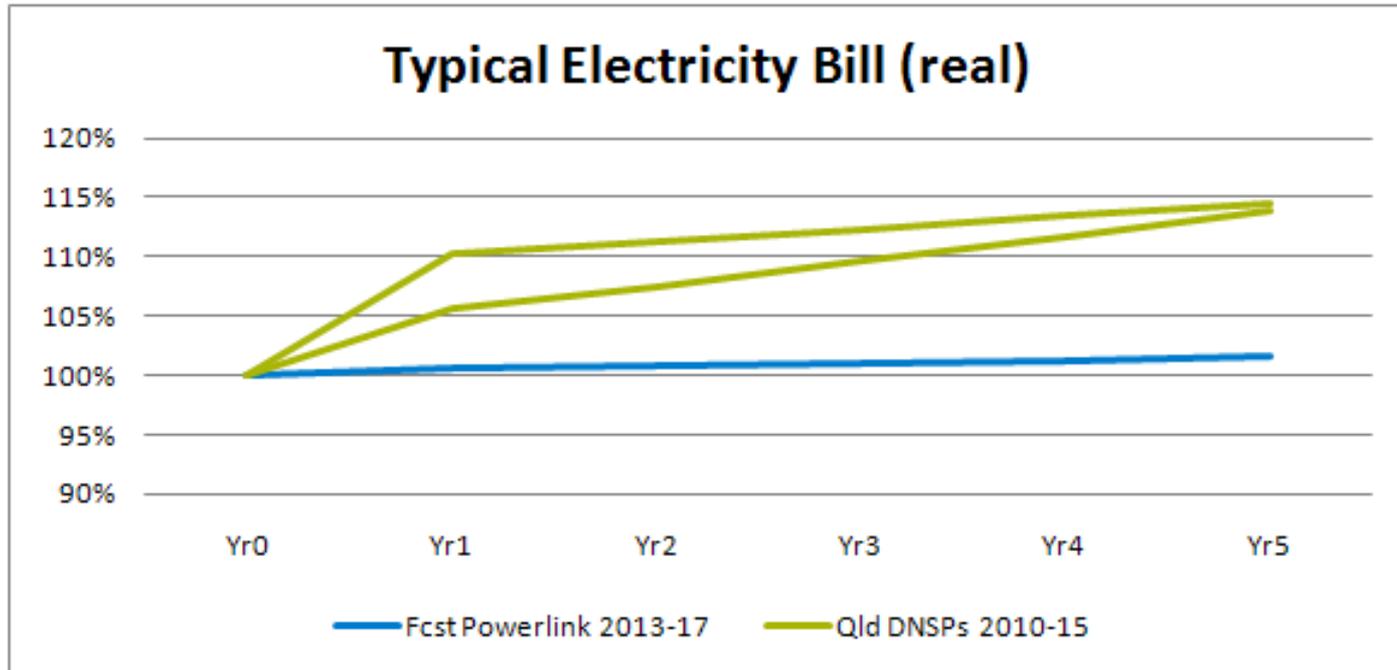
Very low impact on delivered electricity price

- Transmission price % increase year-on-year much lower than distribution networks, and....
- Transmission makes up only about 8% of delivered electricity price (vs. about 40% for distribution)
- Bottom line.....only about **0.6% per annum** increase in typical electricity bill



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Impact on typical electricity bill



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