



AUSTRALIAN
ENERGY
COUNCIL

THE FUTURE OF ENERGY IN AUSTRALIA

MATTHEW WARREN, CEO
SYDNEY MARCH 2018

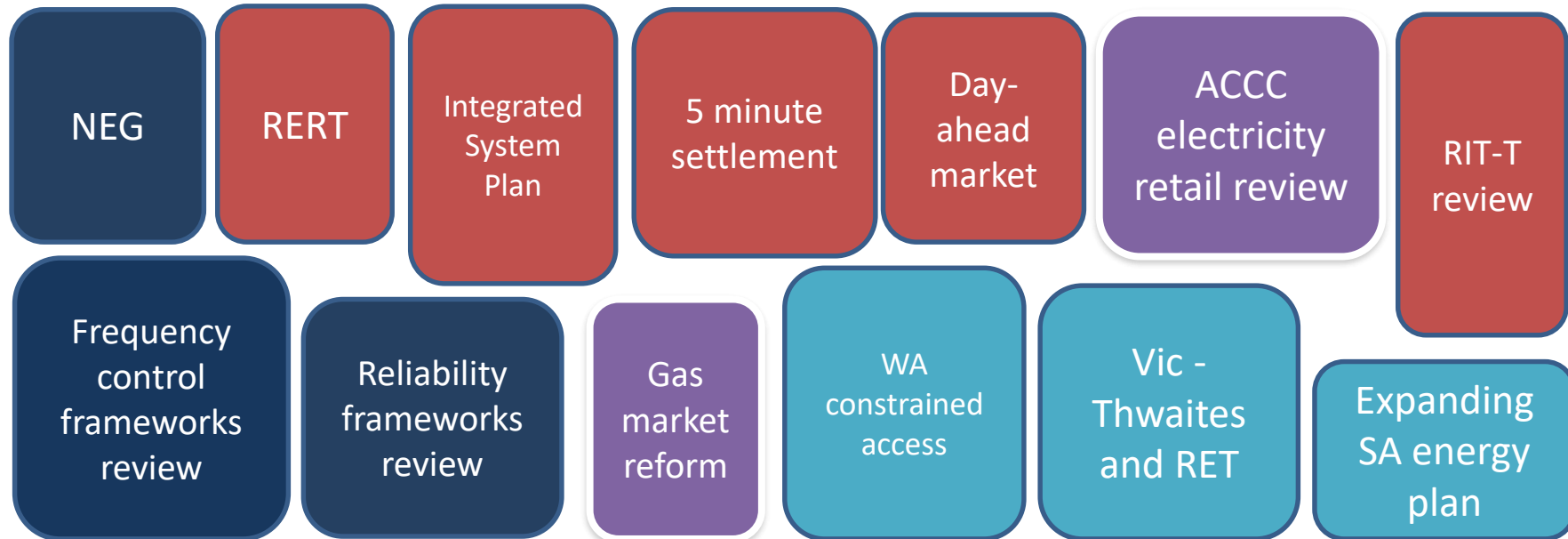
2017 – THE POLITICS OF ENERGY SCARCITY



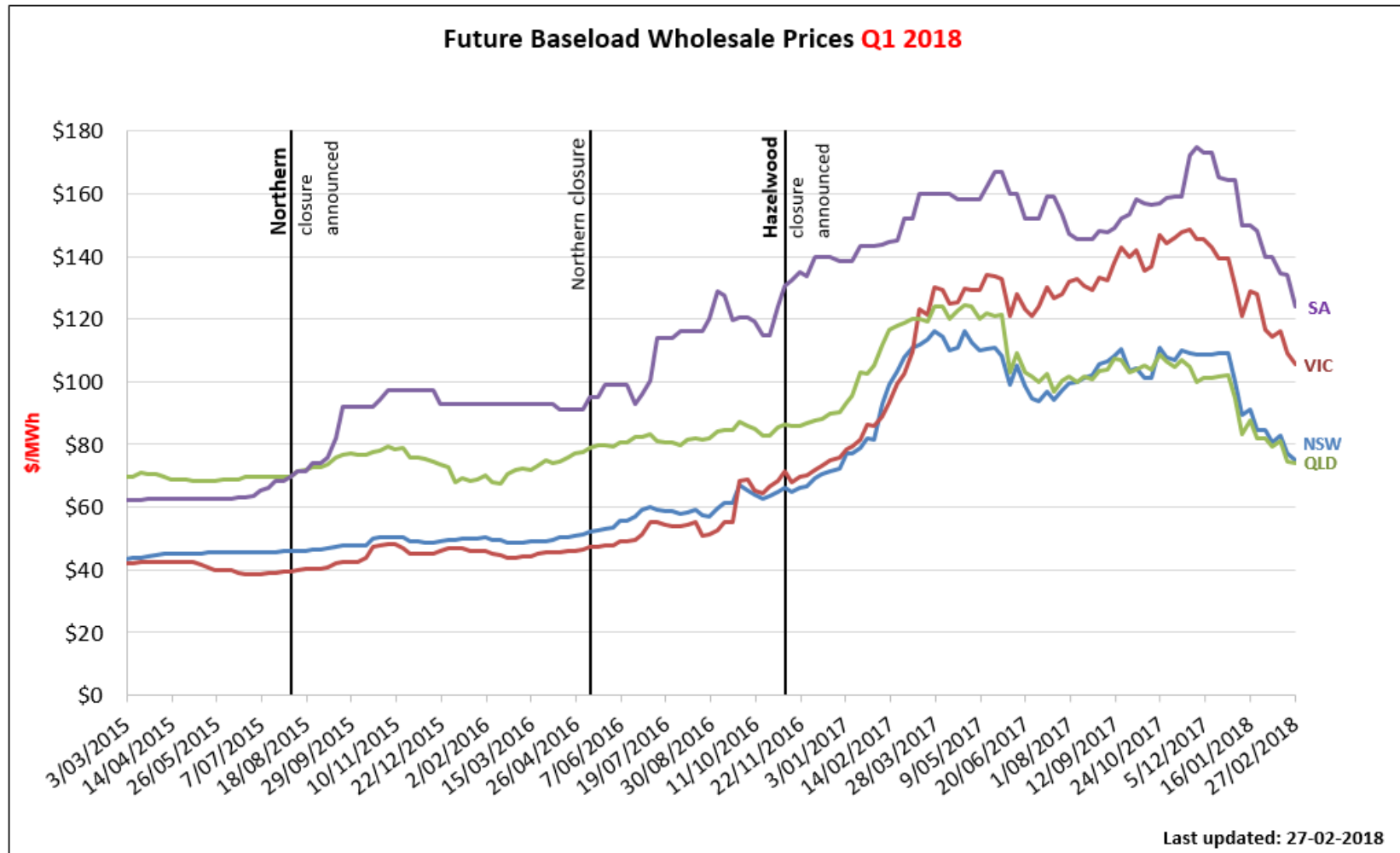
POLITICAL

- **POWER PRICES**
- **LIGHTS STAY ON**

TECHNICAL

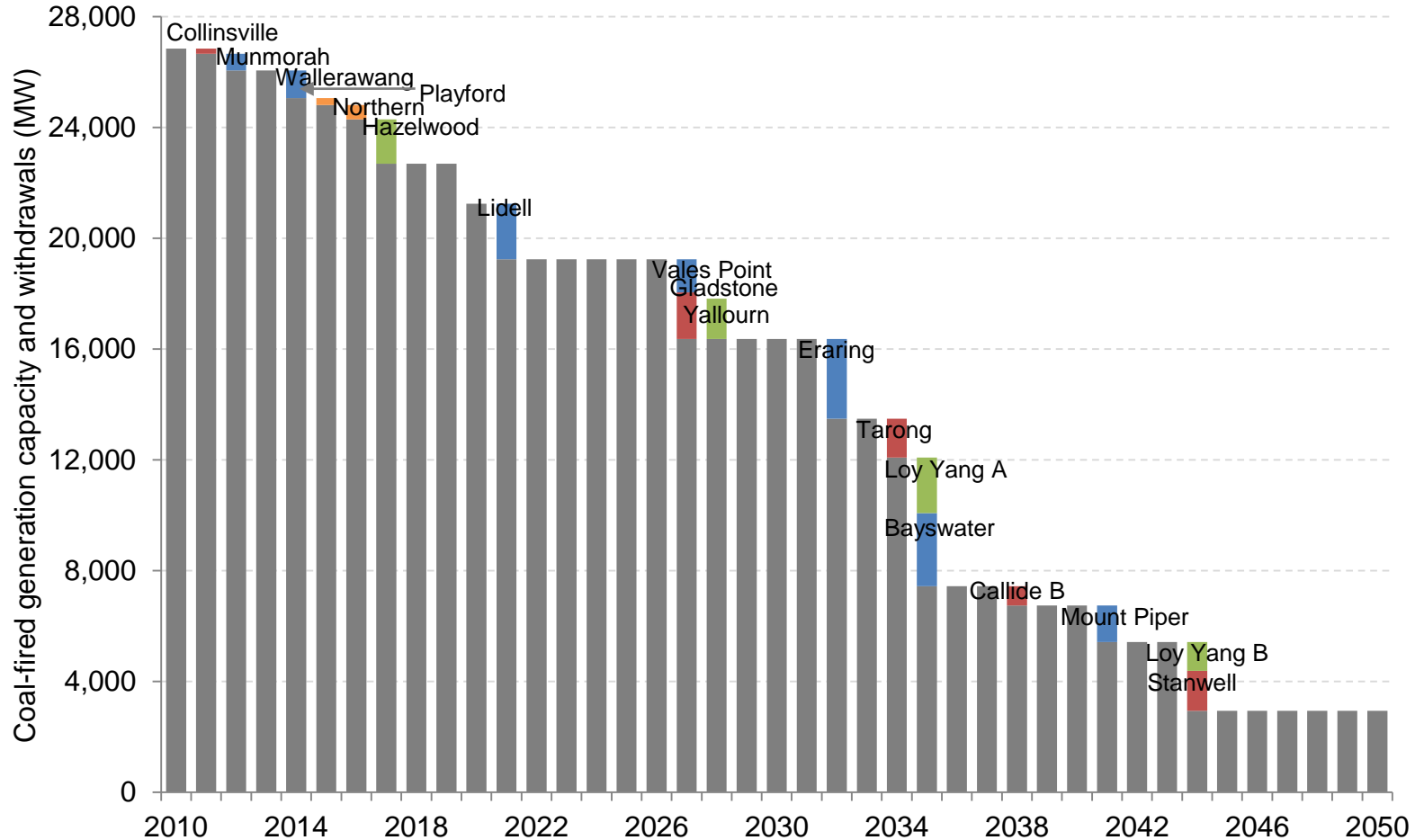


NEM FORWARD WHOLESALE ELECTRICITY PRICES



Source: NEM-Watch

COAL FIRED GENERATION AT 50 YEAR CLOSURE

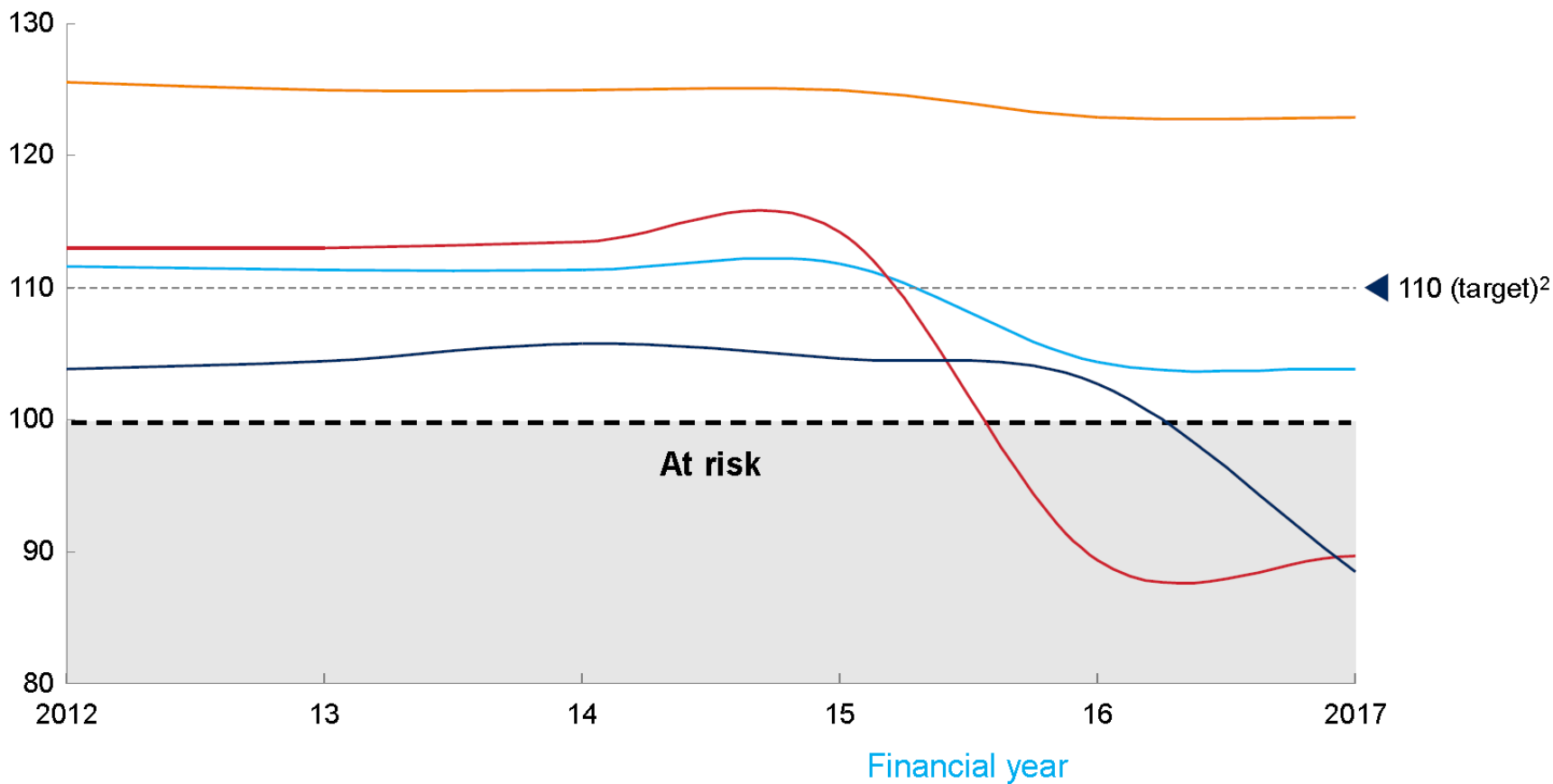


Source: Australian Energy Council, 2017

FIRM CAPACITY DECLINING

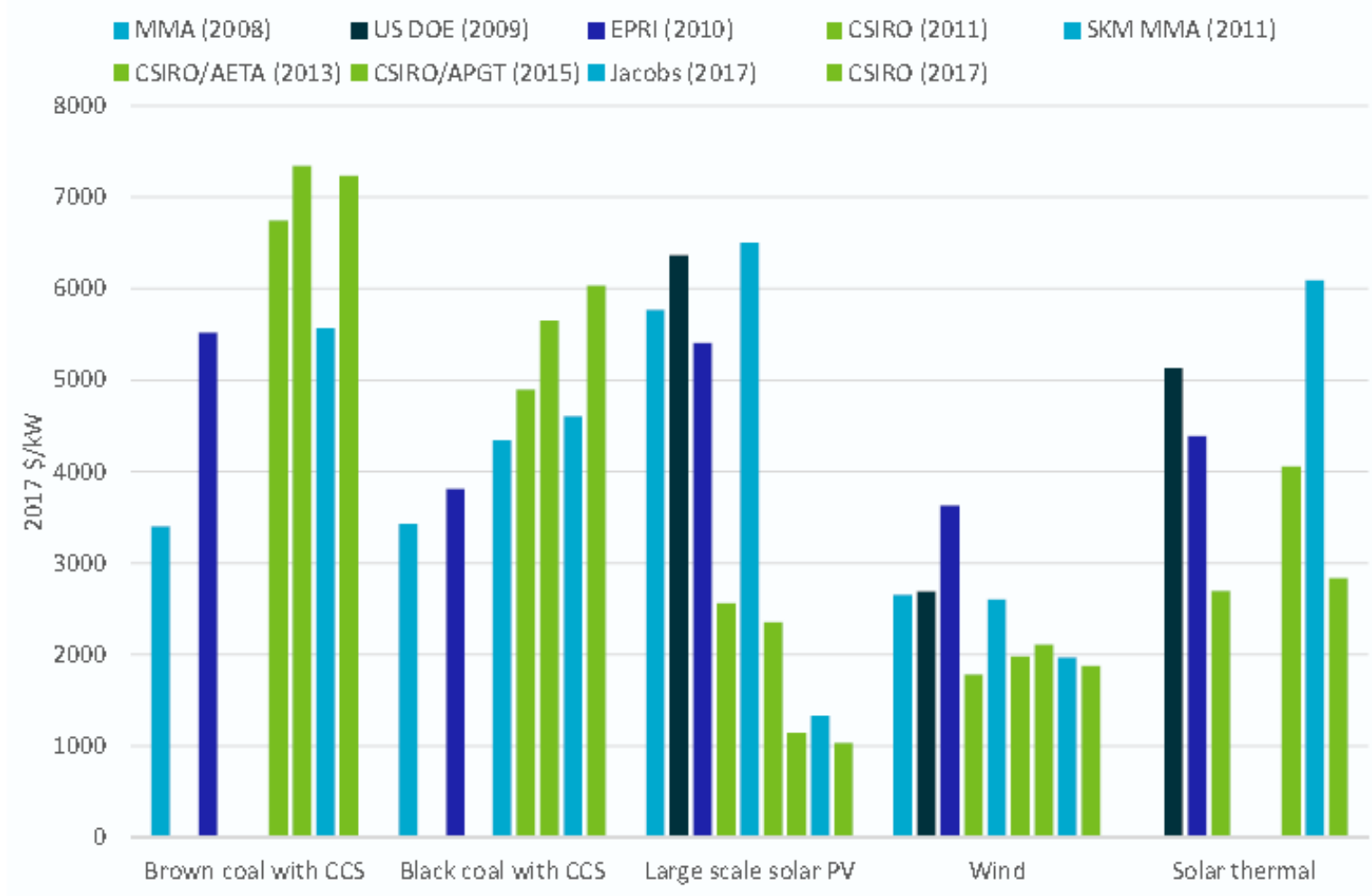
Firm capacity¹

Percent of peak demand (including interconnector)



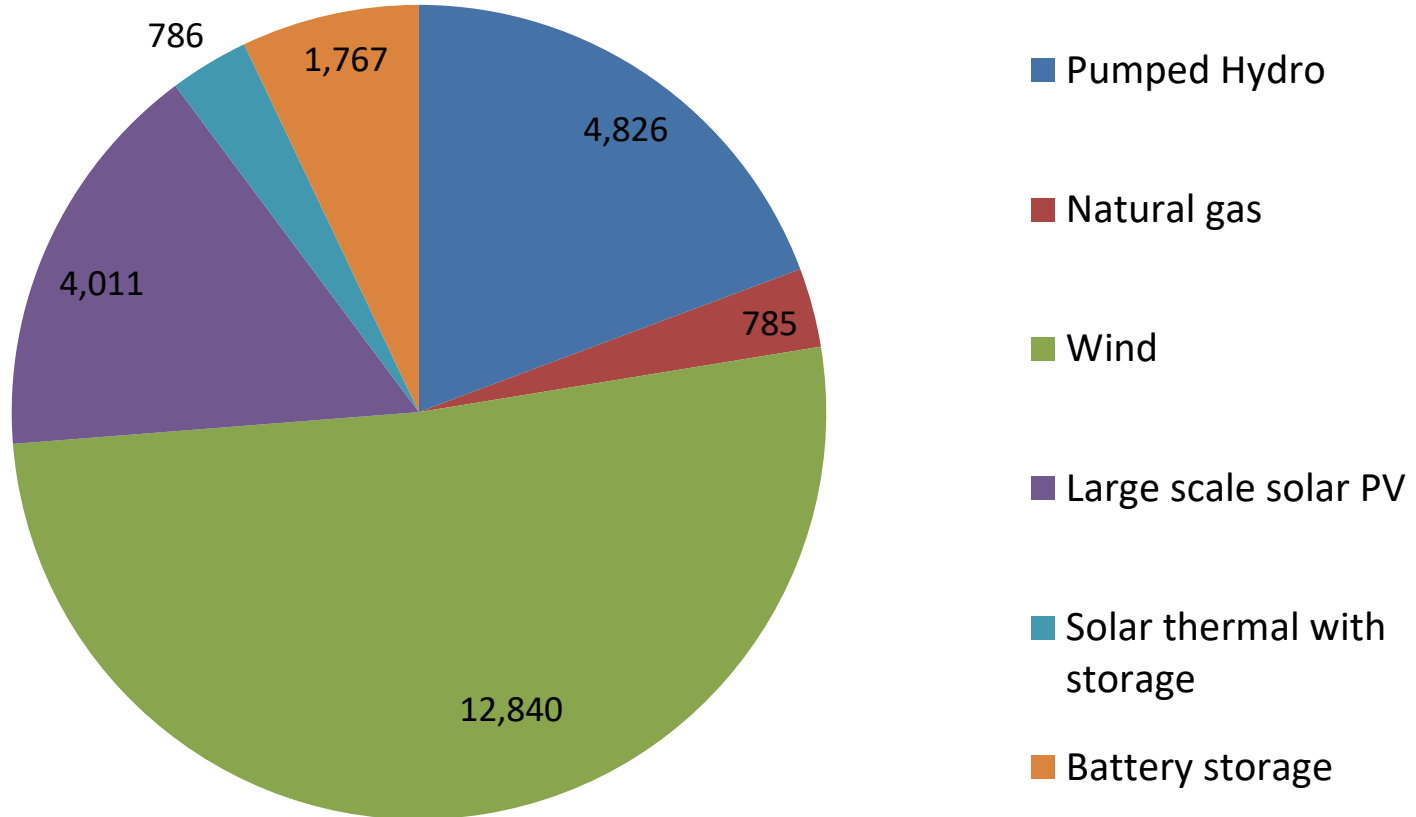
Source: McKinsey

LCOE – RENEWABLES LEAD THE NEW INVESTMENT



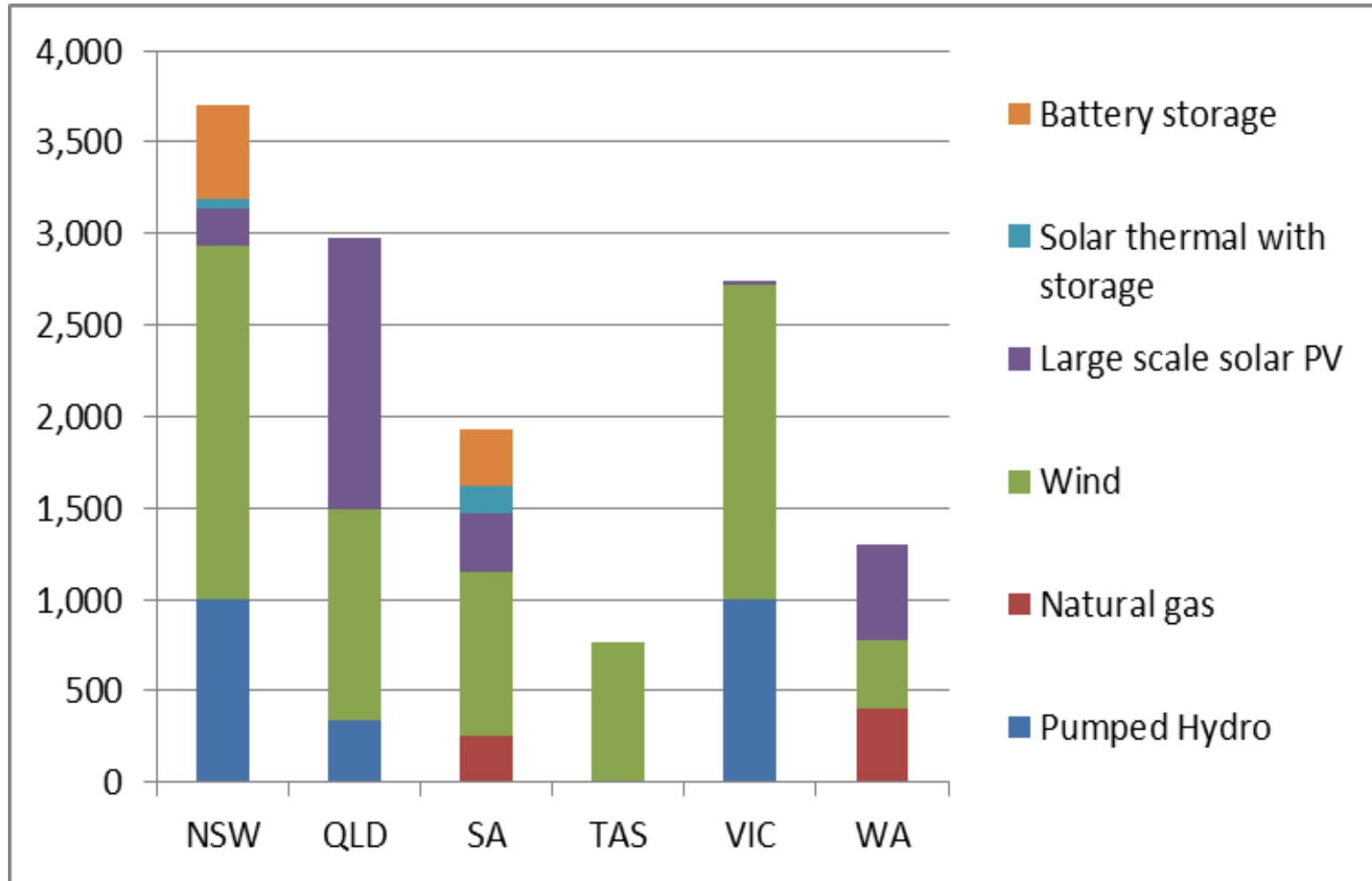
Source: CSIRO

GENERATION INVESTMENT TO 2030 BY TECHNOLOGY TYPE, \$M



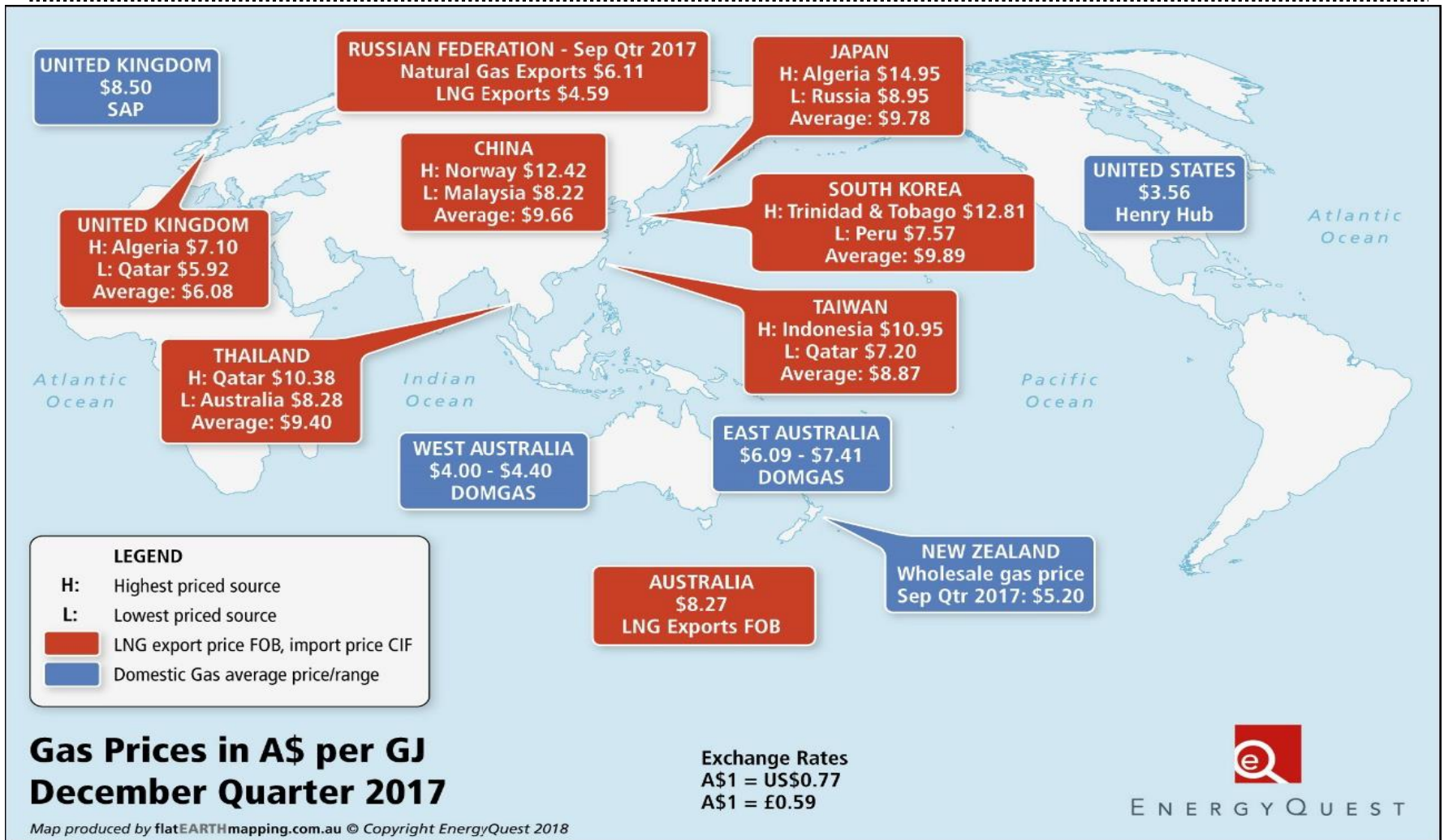
Source: AEC

GENERATION INVESTMENT TO 2030 BY TECHNOLOGY TYPE, CAPACITY BY STATE (MW)



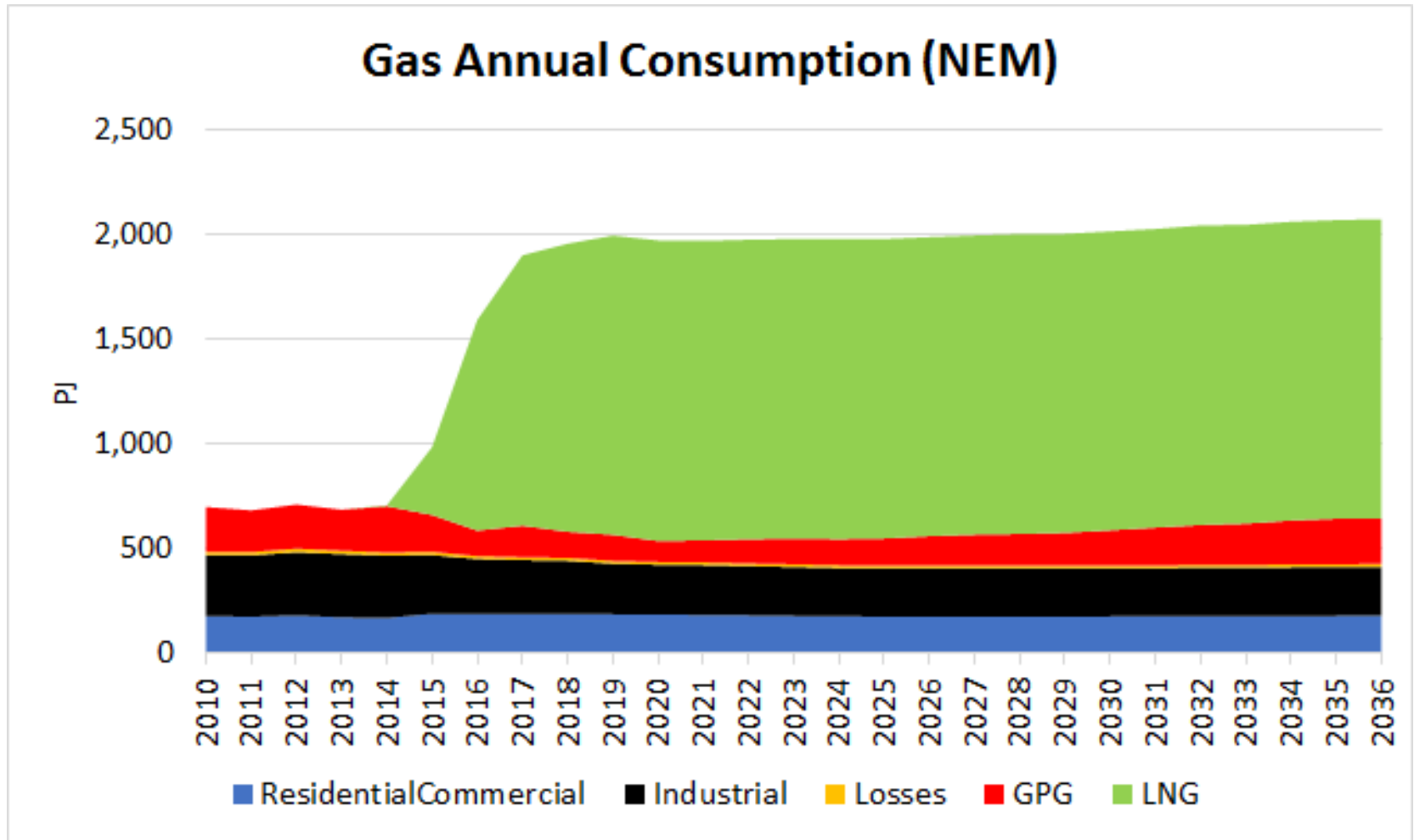
Source: AEC

AUSTRALIAN AND GLOBAL GAS PRICES – DEC 17



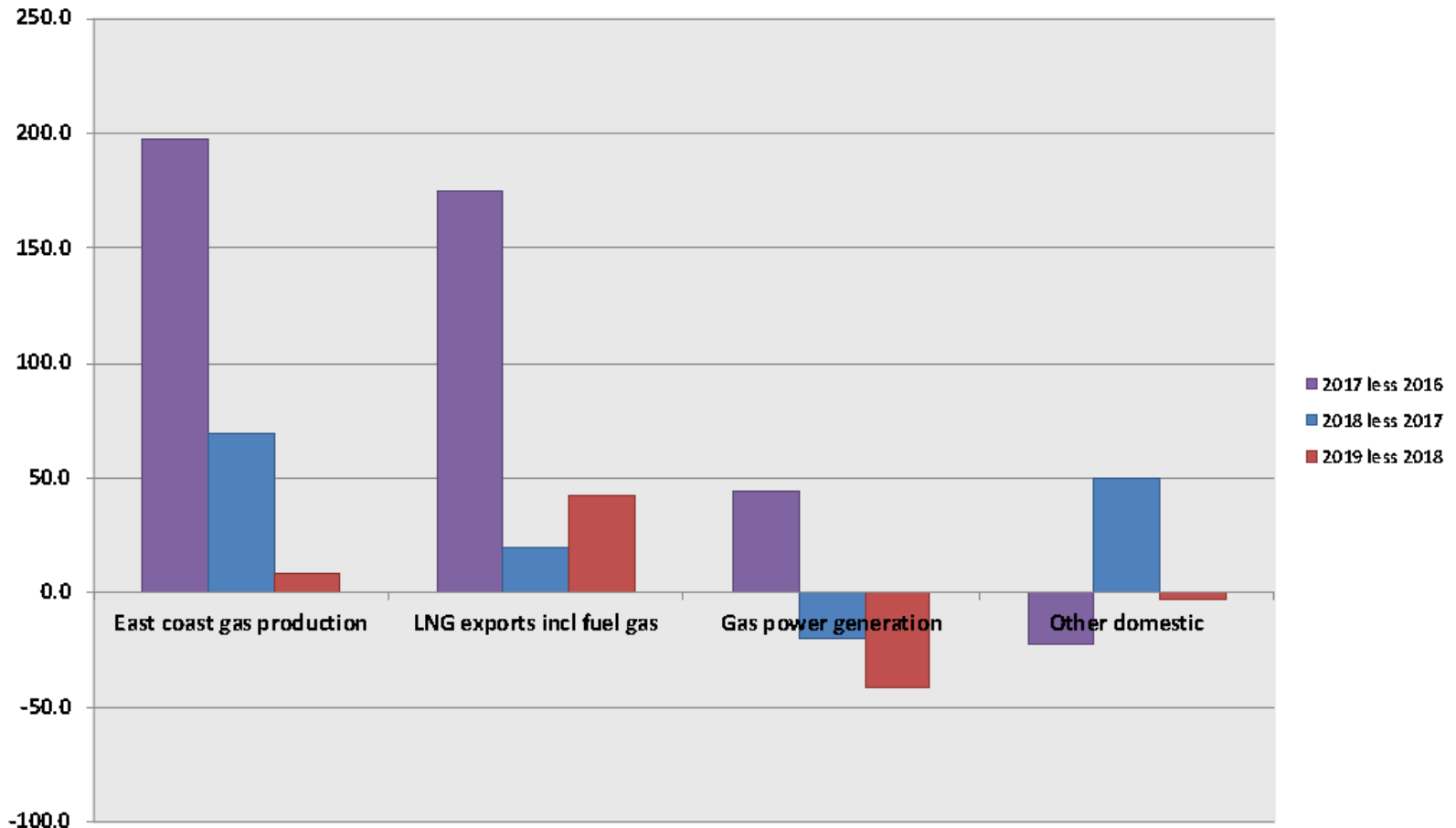
Source: EnergyQuest

NEM GAS CONSUMPTION BY END USER 2010-36

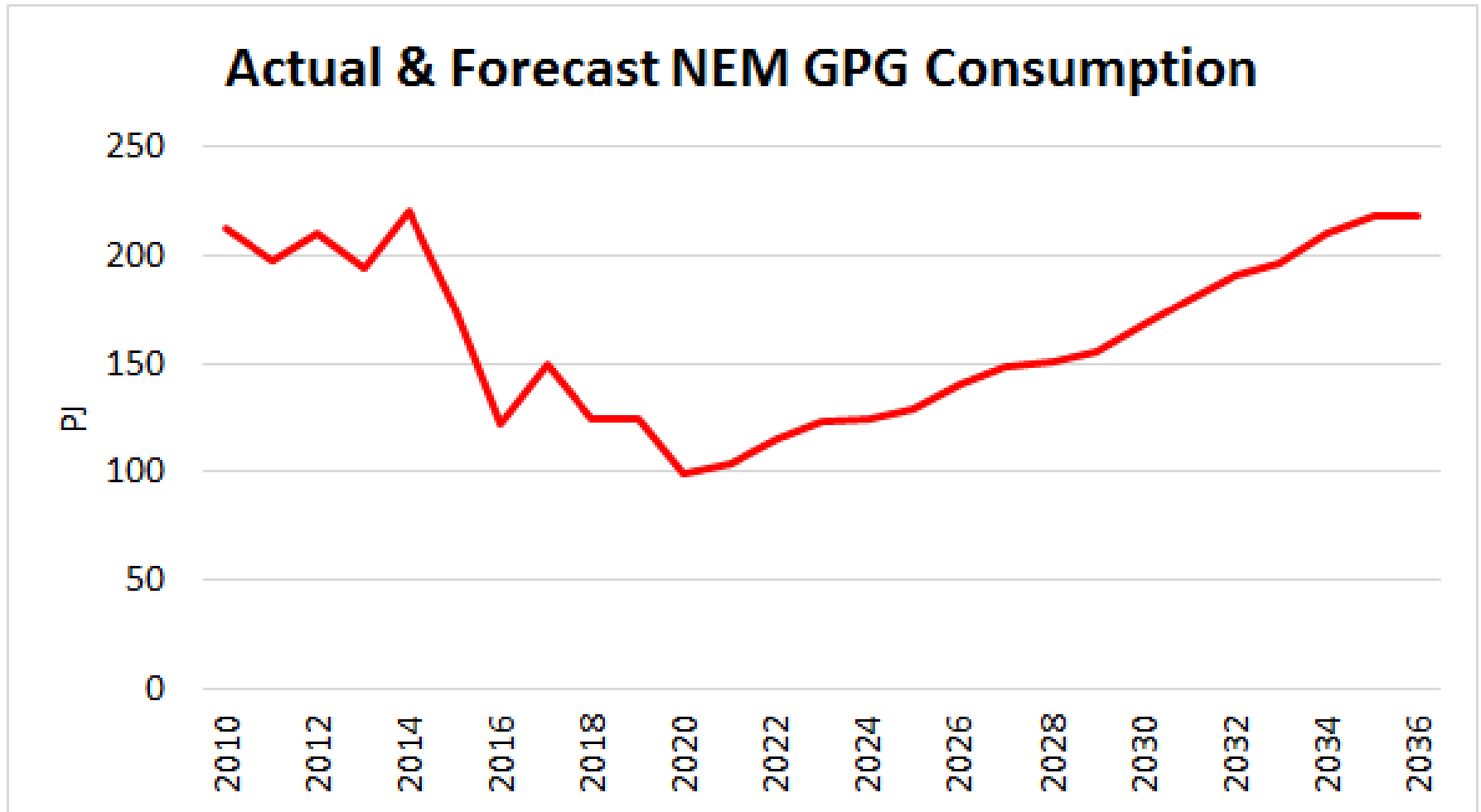


CHANGES IN EAST COAST GAS SUPPLY AND DEMAND 2016-19

East coast gas supply and demand, annual changes, 2017 actual, later years
ACCc forecasts (PJ)

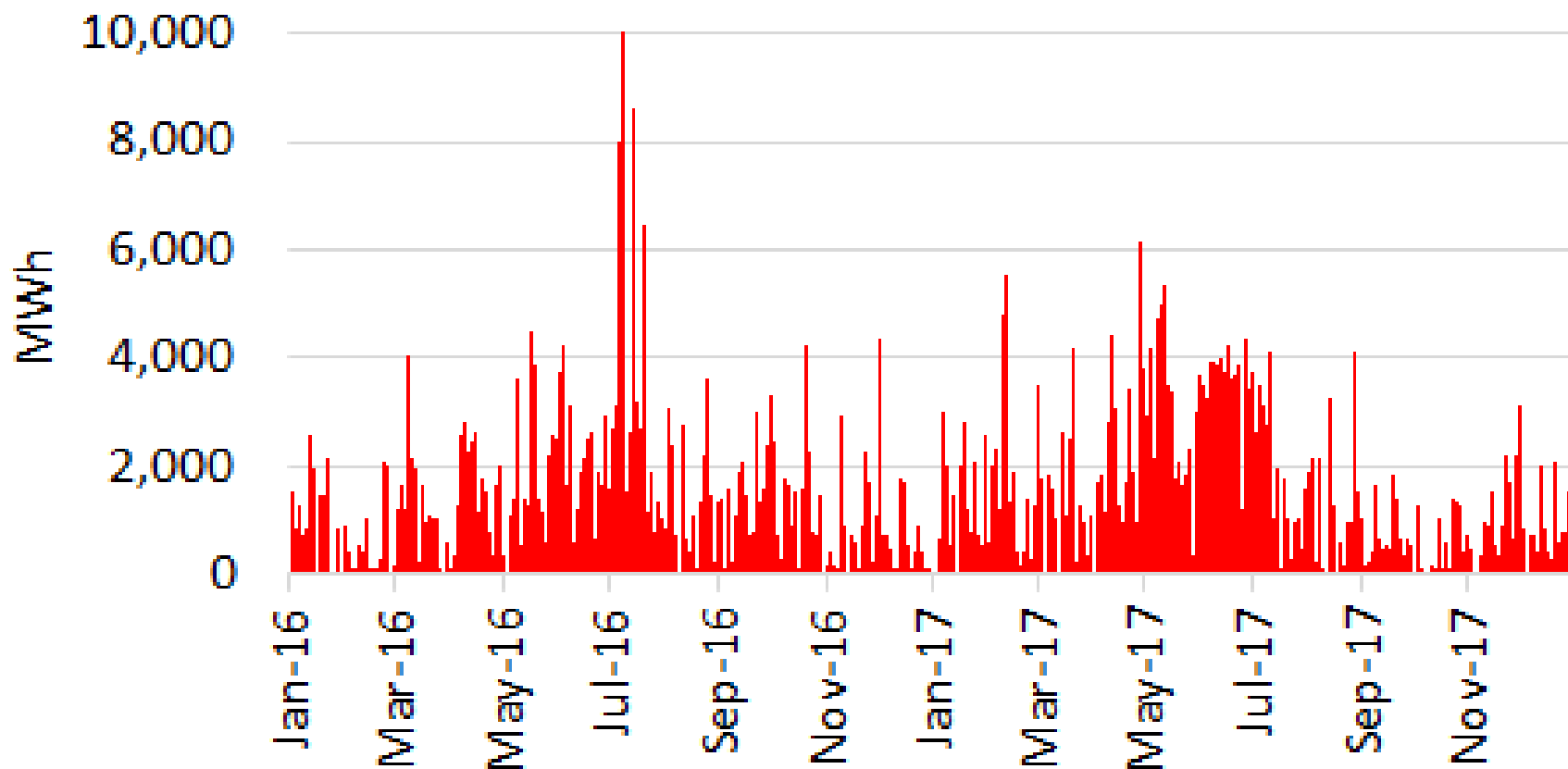


Source: EnergyQuest

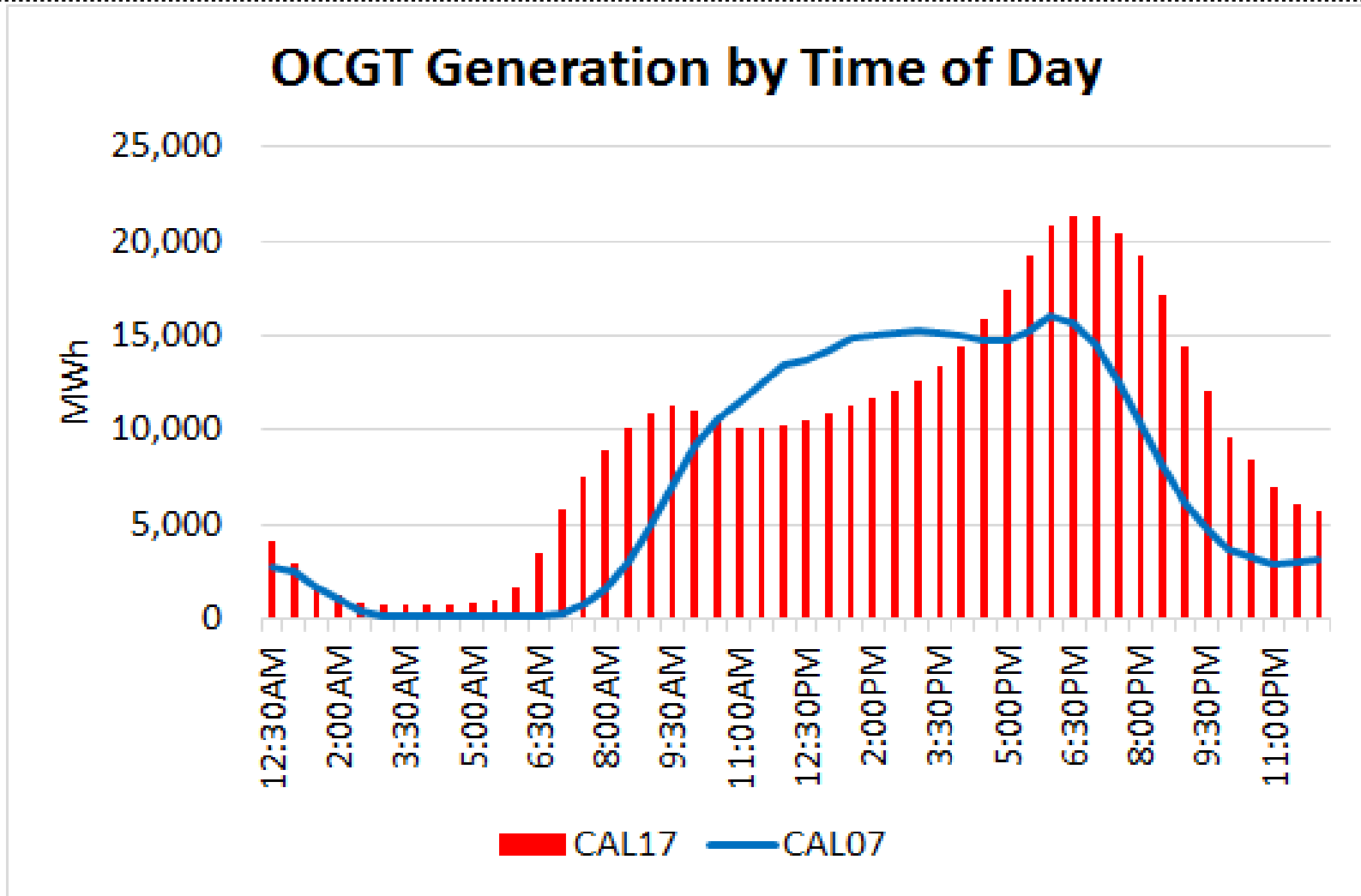


DAILY RUNNING OF OCGT (PEAKERS), SA

OCGT Daily Generation



CHANGE IN TIME OF DAY FOR GAS PEAKERS



COBALT MARKET - LME



Source: LME

FEBRUARY 12

BMW is trying to secure a 10-year supply of cobalt and lithium for EV batteries

Fred Lambert - Feb. 12th 2018 7:57 am ET [@FredericLambert](#)





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