

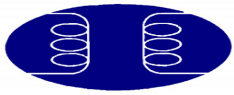
Electric Power Consulting Pty Ltd

Power System Generation Mix Model Output

Scenario: Case 6 - 100% renewables with Solar PV, Wind and Hydro - supported by Pumped Hydro (updated 10/10/2019)

Version 2.1 Run Number 279

| Generation Type | Model Inputs | | | Model Outputs | | | | | | | |
|--|------------------|--------------|--------------------|-------------------------|-----------------|---------------------------|--|--|------------------------|---|--------------------|
| | Net Available MW | Storage Days | Avail-ability | Installed MW | Capacity Factor | % of Load Energy Supplied | Levelised Cost of Energy (LCOE) \$/MWh | Contribution to System Levelised Cost of Energy (SLCOE) \$/MWh | Carbon Intensity T/MWh | Contribution to System Carbon Intensity T/MWh | |
| Battery Storage | 100 | 0.06 | 100.0% | 100 | | 0.0% | | \$0.13 | | | |
| Pump Storage | 30,000 | 3.00 | 100.0% | 30,000 | | -1.5% | | \$132.02 | | | |
| Solar PV | 10,000 | | 100.0% | 10,000 | 27.3% | 12.6% | \$117.32 | \$14.77 | 0.03 | 0.00 | |
| Wind | 100,000 | | 100.0% | 100,000 | 17.8% | 81.8% | \$155.03 | \$126.88 | 0.01 | 0.01 | |
| Hydro | 4,200 | | 100.0% | 4,200 | 36.5% | 7.1% | \$90.95 | \$6.43 | 0.02 | 0.00 | |
| Total | 144,300 | | Total | 144,300 | | | | Subtotal Generation..... | \$280.22 /MWh | Total..... | 0.02 |
| System Wide Generation Capacity Factor.... | | | | 15.0% | | | | ** Extra Transmission and Related Costs | \$135.28 /MWh | CO2 Emission Abatement Analysis | |
| | | | | Energy storage decrease | | 0.0% | | System Levelised Cost of Energy | \$415.50 /MWh | Reference Base level.... | \$69.20/MWh |
| | | | | Total..... | | 100.0% | | ** Base Transmission and Related Costs | \$42.25 /MWh | | 0.82 T/MWh |
| | | | | | | | | Delivered Cost of Energy for Large Industrial Customers | \$457.75 /MWh | Cost of Abatement \$430.62 /Tonne | |
| | | | | | | | | Distribution and Retail... | \$100.00 /MWh | | |
| | | | | | | | | Delivered Cost of Energy for small LV Customers | \$557.75 /MWh | | |
| ** see note on next page for an explanation of costs | | | | | | | | | | | |



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Base Load Generation Analysis

Base Load Generation not used

NPV Discount Rate

6.0%

0 MW Maximum

0 MW Average

0 MW Minimum

LoadSelection Full NEM Load (2017)

System Load

Peak 34,342 MW

190,051,953 MWhs

Renewables

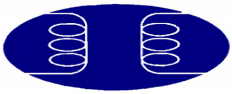
39.2% Wind and Solar PV MWhs spilled

60.8% Wind and Solar PV MWhs utilised

101.5% Load MWhs supplied by renewables
(Wind, Solar PV and Hydro)

Notes

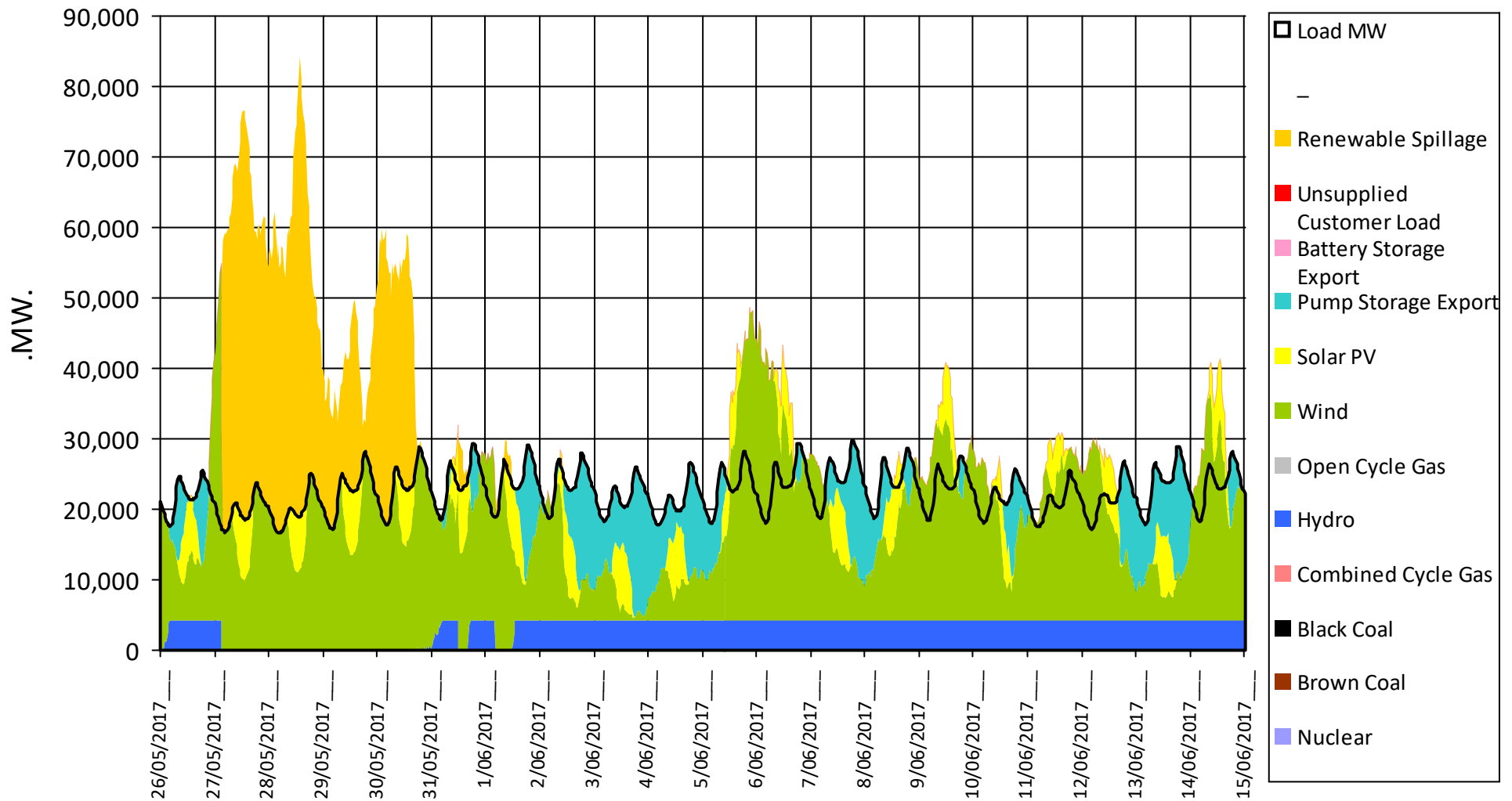
Transmission and related costs include transmission, subtransmission, generator connection, system strength provision, voltage control, congestion costs and a component of network losses.

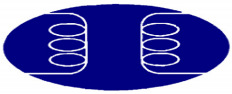


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