

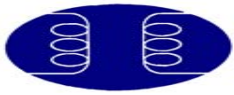
# Electric Power Consulting Pty Ltd

## Power System Generation Mix Model Output

Scenario: Case 6 - 100% Renewables with Solar PV, Wind and Hydro - supported by Pumped Hydro

Version 1.6 Run Number 114

| Generation Type | Installed MW | Net Available MW |                | % 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 |
|-----------------|--------------|------------------|----------------|----------------------------|--|--|--|---|
|                 |              |                  | Storage Days   |                            |  |  |  |   |
| Battery Storage | 100          | 100              | 0.06           | 0.0%                       |  | \$0.13   |  |   |
| Pump Storage    | 30,000       | 30,000           | 3.00           | -1.5%                      |  | \$132.02   |  |   |
| Solar PV        | 10,000       | 10,000           |                | 12.6%                      | \$117.32   | \$14.77  | 0.034                                    | 0.00  |
| Wind            | 100,000      | 100,000          |                | 81.8%                      | \$155.03   | \$126.88   | 0.012                                    | 0.01  |
| Hydro           | 4,200        | 4,200            |                | 7.1%                       | \$90.95  | \$6.43   | 0.024                                    | 0.00  |
| Total .....     |              | <b>144,300</b>   | <b>144,300</b> | MW Energy storage decrease |  |  |  |   |
|                 |              |                  |                | <b>Total.....</b>          |  |  |  | <b>100.0%</b>                                 |
|                 |              |                  |                |                            | <b>Subtotal Generation.....</b>                            | <b>\$280.22 /MWh</b>   |  |   |
|                 |              |                  |                |                            | Extra Transmission...                                      | \$135.28 /MWh  |  |   |
|                 |              |                  |                |                            | <b>System Levelised Cost of Energy</b>                     | <b>\$415.50 /MWh</b>   |  |   |
|                 |              |                  |                |                            | Base Transmission.....                                     | \$42.25 /MWh   |  |   |
|                 |              |                  |                |                            | <b>Delivered Cost of Energy for Transmission Customers</b> | <b>\$457.75 /MWh</b>   |  |   |
|                 |              |                  |                |                            | Distribution...  | \$100.00 /MWh  |  |   |
|                 |              |                  |                |                            | <b>Delivered Cost of Energy for small LV Customers</b>     | <b>\$557.75 /MWh</b>   |  |   |
|                 |              |                  |                |                            |  |  | <b>Total..... 0.02</b>                   |   |
|                 |              |                  |                |                            |  |  | <b>CO2 Emission Abatement Analysis</b>   |   |
|                 |              |                  |                |                            |  |  | Reference Base level....                 | <b>\$69.20/MWh</b><br><b>0.82 T/MWh</b>       |
|                 |              |                  |                |                            |  |  | <b>Cost of Abatement \$430.62 /Tonne</b> |   |



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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

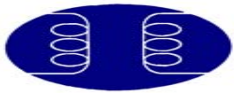
190,051,953 MWhs

### 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)



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