

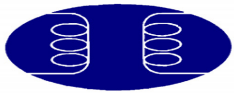
Electric Power Consulting Pty Ltd

Power System Generation Mix Model Output

Scenario: Base Case 1 - Existing NEM approximation (updated 10/11/2019)

Version 2.1 Run Number 266

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			
Solar PV	323		100.0%	323	27.3%	0.4%	\$117.32	\$0.48	0.03	0.00	
Wind	3,500		100.0%	3,500	32.0%	5.2%	\$93.08	\$4.80	0.01	0.00	
Open Cycle Gas	10,500		98.5%	10,660	3.5%	1.7%	\$348.91	\$6.02	0.61	0.01	
Hydro	4,200		100.0%	4,200	41.5%	8.0%	\$80.78	\$6.50	0.02	0.00	
Combined Cycle Gas	2,000		94.5%	2,116	71.5%	7.0%	\$92.23	\$6.43	0.42	0.03	
Black Coal Supercritical	13,500		94.5%	14,286	93.5%	61.6%	\$50.90	\$31.33	0.96	0.59	
Brown Coal Supercritical	3,500		94.5%	3,704	94.5%	16.1%	\$56.71	\$9.15	1.23	0.20	
Total	37,623	Total	38,889				Subtotal Generation.....	\$64.83 /MWh	Total.....	0.83	
System Wide Generation Capacity Factor....				55.8%			** Extra Transmission and Related Costs		\$4.04 /MWh	CO2 Emission Abatement Analysis	
Energy storage decrease				0.0%			System Levelised Cost of Energy		\$68.87 /MWh	Reference	\$69.20/MWh
Total.....				100.0%			** Base Transmission and Related Costs		\$42.25 /MWh	Base level....	0.82 T/MWh
							Delivered Cost of Energy for Large Industrial Customers		\$111.12 /MWh	Cost of Abatement	
							Distribution and Retail...		\$100.00 /MWh	N/A /Tonne	
							Delivered Cost of Energy for small LV Customers		\$211.12 /MWh		
<p>** see note on next page for an explanation of costs</p>											



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Base Load Generation Analysis

NPV Discount Rate

6.0%

19,000 MW Maximum 18,368 MW Average 12,856 MW Minimum LoadSelection Full NEM Load (2017)

System Load

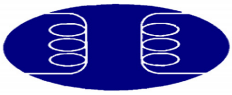
Peak 34,342 MW 190,051,953 MWhs

Renewables

0.0% Wind and Solar PV MWhs spilled 100.0% Wind and Solar PV MWhs utilised 13.6% Load MWhs supplied by renewables
(Wind, Solar PV and Hydro)

Notes

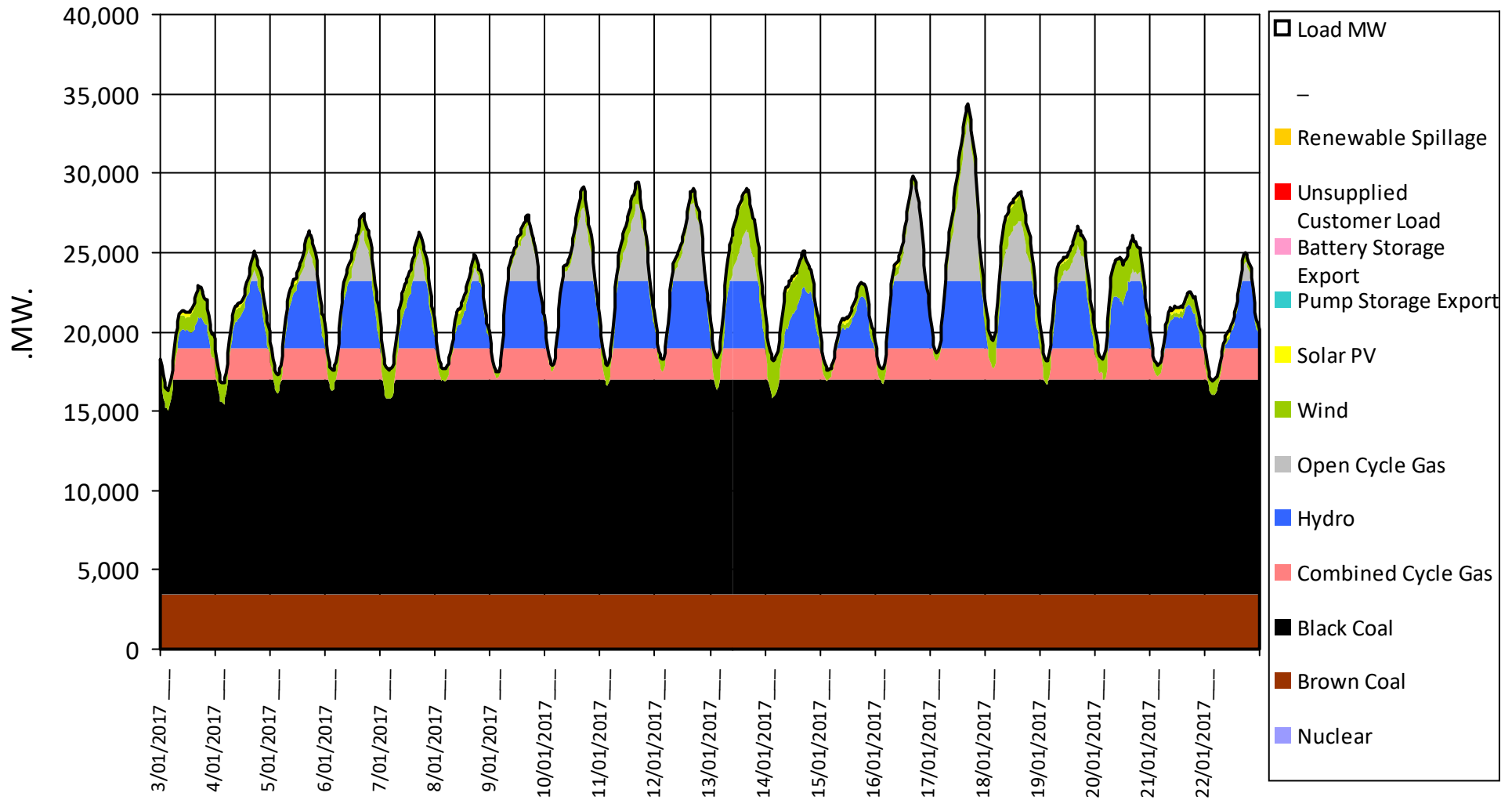
Transmission and related costs include transmission, subtransmission, generator connection, system strength provision, voltage control, congestion costs and a component of network losses.

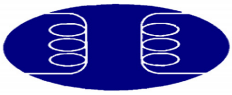


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