Attachment 1

Off-peak Reference Cap Value	Table 1 Off-Peak Cap Values	2018 Values	2019 Values Note 1
Off-Peak Cap Value Table 2 Absolute Minimum Capacity Offer Volume Quarters ending 31 March Quarters ending 30 June Quarters ending 30 June Quarters ending 30 September S.2MW S.1MW Quarters and Reserved Percentage Supplementary Offer Capacity Volume Supplementary Offer Capacity Volume Reduced Supplementary Offer Energy Volume Reduced Supplementary Offer Capacity Volume Reduced Supplementary Offer Ca	•	ΦΟ Ο Δ / ΙΝΑ / Ι _σ	ΦΟ Ο 4 /N 4\\A\\-
Table 2 Absolute Minimum Capacity Offer Volume Quarters ending 31 March Quarters ending 30 September Quarters ending 31 December Quarters ending 31 December Quarters ending 31 December S.5MW 5.5MW 5.5MW 5.1MW 4.9MW Table 3 Supplementary Offer Volumes, Headroom Buffers and Reserved Percentage Supplementary Offer Energy Volume Supplementary Offer Capacity Volume Reduced Supplementary Offer Capacity Volume Reduced Supplementary Offer Energy Volume	·		
Quarters ending 31 March 3.5MW 5.5MW 5	OII-Peak Cap Value	\$1.16/MWn	\$1.49/MWN
Quarters ending 30 June	· · ·		
Quarters ending 30 September 5.2MW 5.1MW 4.9MW Table 3 Supplementary Offer Volumes, Headroom Buffers and Reserved Percentage 20MW 20MW 20MW Supplementary Offer Energy Volume 44GWh 44GWh 44GWh A4GWh Reduced Supplementary Offer Capacity Volume 10MW 120MW	_	4.5MW	
Table 3 Supplementary Offer Volumes, Headroom Buffers and Reserved Percentage Supplementary Offer Capacity Volume Supplementary Offer Capacity Volume Reduced Supplementary Offer Capacity Volume Reduced Supplementary Offer Energy Volume 130 MW 130 MW 130 MW 130 MW Energy Headroom Buffer 200GWh 200GWh 200GWh 200GWh Reserved Percentage 90% 90% Table 4 Marginal Loss Factor 0.899 0.894 Maximum Import Marginal Loss Factor 1.075 1.069 0ff-Peak Marginal Loss Factor 1.000 1.001 Peak Marginal Loss Factor 1.000 1.001 1.0	-		5.5MW
Table 3 Supplementary Offer Volumes, Headroom Buffers and Reserved Percentage Supplementary Offer Capacity Volume Supplementary Offer Energy Volume Reduced Supplementary Offer Capacity Volume Reduced Supplementary Offer Capacity Volume Reduced Supplementary Offer Energy Volume Capacity Headroom Buffer Capacity Headroom Buffer Energy Headroom Buffer 130 MW 130 MW 130 MW Energy Headroom Buffer 200GWh 200GWh Reserved Percentage 90% 90% Table 4 Marginal Loss Factors Maximum Export Marginal Loss Factor Maximum Import Marginal Loss Factor 1.075 1.069 0ff-Peak Marginal Loss Factor 1.000 1.001 Peak Marginal Loss Factor 0.949 0.952 Average Basslink Flow Export Average Basslink Flow Import 462MW 462MW Table 5 New Committed Wind Generation Quarters ending 31 March Quarters ending 30 September 230 234 Quarters ending 31 December Costing Quarter Economic Life Construction Of Tasmanian Cap Values Costing Quarter Economic Life Forecast Inflation Rate Nominal Post Tax Debt Cost Pre-Tax Real WACC Real Annual Operating Cost Real Total Capital Cost Construction Quarter Supplementary Offer Energy Volume 44GWM 43GWh 44GWh 43GWh	· ·		
Supplementary Offer Capacity Volume 20MW	Quarters ending 31 December	5.1MW	4.9MW
Supplementary Offer Capacity Volume 20MW 44GWh 44GWh Reduced Supplementary Offer Energy Volume 10MW 10MW Reduced Supplementary Offer Energy Volume 15GWh 15GWh Capacity Headroom Buffer 130 MW 130 MW Energy Headroom Buffer 200GWh 200GWh Reserved Percentage 90% 90% Table 4 Marginal Loss Factors Maximum Export Marginal Loss Factor 0.899 0.894 Maximum Export Marginal Loss Factor 1.075 1.069 Off-Peak Marginal Loss Factor 1.000 1.001 Peak Marginal Loss Factor 0.949 0.952 Average Basslink Flow Export 500MW 500MW Average Basslink Flow Export 462MW 462MW Table 5 New Committed Wind Generation Quarters ending 30 June 201 204 Quarters ending 31 March 206 203 Quarters ending 30 September 230 234 Quarters ending 31 December 232 227 Table 6 Calculation of Tasmanian Cap Values	• • •		
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Reduced Supplementary Offer Capacity Volume 10MW 10MW Reduced Supplementary Offer Energy Volume 15GWh 15GWh Capacity Headroom Buffer 200GWh 200GWh Energy Headroom Buffer 200GWh 200GWh Reserved Percentage 90% 90% Table 4 Marginal Loss Factors Maximum Export Marginal Loss Factor 0.899 0.894 Maximum Import Marginal Loss Factor 1.000 1.001 Off-Peak Marginal Loss Factor 0.949 0.952 Average Basslink Flow Export 500MW 500MW Average Basslink Flow Import 462MW 462MW Table 5 New Committed Wind Generation Quarters ending 31 March 206 203 Quarters ending 30 June 201 204 Quarters ending 30 September 230 234 Quarters ending 31 December 232 227 Table 6 Calculation of Tasmanian Cap Values Costing Quarter Quarter ending 30 June 2016 Quarter ending 30 June 2019 Economic Life 30 years 25 years	· · · · · · · · · · · · · · · · · · ·		
Reduced Supplementary Offer Energy Volume 15GWh 15GWh Capacity Headroom Buffer 130 MW 130 MW Energy Headroom Buffer 200GWh 200GWh Reserved Percentage 90% 90% Table 4 Marginal Loss Factors Maximum Export Marginal Loss Factor 0.899 0.894 Maximum Import Marginal Loss Factor 1.005 1.069 Off-Peak Marginal Loss Factor 1.000 1.001 Peak Marginal Loss Factor 0.949 0.952 Average Basslink Flow Export 500MW 500MW Average Basslink Flow Export 462MW 462MW Table 5 New Committed Wind Generation Quarters ending 30 June 206 203 Quarters ending 30 June 201 204 Quarters ending 30 June 201 204 Quarters ending 31 December 232 227 Table 6 Calculation of Tasmanian Cap Values Costing Quarter Quarter ending 30 June 2016 Quarter ending 30 June 2019 Economic Life 30 years 25 years	• • • • • • • • • • • • • • • • • • • •		
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Energy Headroom Buffer 200GWh 90% 90% 90% 90%			
Reserved Percentage 90% 90% 90%	• •		
Maximum Export Marginal Loss Factor 0.899 0.894 Maximum Import Marginal Loss Factor 1.075 1.069 Off-Peak Marginal Loss Factor 1.000 1.001 Peak Marginal Loss Factor 0.949 0.952 Average Basslink Flow Export 500MW 500MW Average Basslink Flow Import 462MW 462MW Table 5 New Committed Wind Generation Quarters ending 31 March 206 203 Quarters ending 30 June 201 204 Quarters ending 30 September 230 234 Quarters ending 31 December 232 227 Table 6 Calculation of Tasmanian Cap Values Costing Quarter Quarter ending 30 June 2016 Quarter ending 30 June 2019 Economic Life 30 years 25 years Forecast Inflation Rate 2.25% p.a. 2.00% p.a. Nominal Post Tax Debt Cost 3.20% p.a. 2.39% p.a. Pre-Tax Real WACC \$10.13/kW (\$ as at Costing Quarter) \$4.87/kW (\$ as at Costing Quarter) Real Total Capital Cost \$1 067/kW (\$ as at Costing Quarter) \$895/kW (\$ as at			
Maximum Import Marginal Loss Factor 1.075 1.069 Off-Peak Marginal Loss Factor 1.000 1.001 Peak Marginal Loss Factor 0.949 0.952 Average Basslink Flow Export 500MW 500MW Average Basslink Flow Import 462MW 462MW Table 5 New Committed Wind Generation Quarters ending 31 March 206 203 Quarters ending 30 June 201 204 Quarters ending 30 September 230 234 Quarters ending 31 December 232 227 Table 6 Calculation of Tasmanian Cap Values Costing Quarter Quarter ending 30 June 2016 Quarter ending 30 June 2019 Economic Life 30 years 25 years Forecast Inflation Rate 2.25% p.a. 2.00% p.a. Nominal Post Tax Debt Cost 3.20% p.a. 2.39% p.a. Pre-Tax Real WACC 5.8% p.a. 4.7% p.a. Real Annual Operating Cost \$10.13/kW (\$ as at Costing Quarter) \$4.87/kW (\$ as at Costing Quarter) Construction Quarter 2028 2029 Table 7 Con	Table 4 Marginal Loss Factors		
Off-Peak Marginal Loss Factor 1.000 1.001 Peak Marginal Loss Factor 0.949 0.952 Average Basslink Flow Export 500MW 500MW Average Basslink Flow Import 500MW 462MW Table 5 New Committed Wind Generation Quarters ending 31 March 206 203 Quarters ending 30 June 201 204 Quarters ending 30 September 230 234 Quarters ending 31 December 232 227 Table 6 Calculation of Tasmanian Cap Values Costing Quarter Quarter ending 30 June 2016 Quarter ending 30 June 2019 Economic Life 30 years 25 years Forecast Inflation Rate 2.25% p.a. 2.00% p.a. Nominal Post Tax Debt Cost 3.20% p.a. 2.39% p.a. Pre-Tax Real WACC \$10.13/kW (\$ as at Costing Quarter) \$4.87/kW (\$ as at Costing Quarter) Real Total Capital Cost \$1067/kW (\$ as at Costing Quarter) \$895/kW (\$ as at Costing Quarter) Construction Quarter 2028 2029 Table 7 Contract premiums Off-Peak	Maximum Export Marginal Loss Factor	0.899	0.894
Peak Marginal Loss Factor Average Basslink Flow Export Average Basslink Flow Import Table 5 New Committed Wind Generation Quarters ending 31 March Quarters ending 30 June Quarters ending 30 September Quarters ending 31 December Table 6 Calculation of Tasmanian Cap Values Costing Quarter Costing Quarter Forecast Inflation Rate Nominal Post Tax Debt Cost Pre-Tax Real WACC Real Annual Operating Cost Real Total Capital Cost Construction Quarter Real Total Capital Cost Constructor Quarter Real Total Capital Cost Constructor Quarter Survey	Maximum Import Marginal Loss Factor	1.075	1.069
Average Basslink Flow Export Average Basslink Flow Import Table 5 New Committed Wind Generation Quarters ending 31 March Quarters ending 30 June Quarters ending 30 September Quarters ending 30 September Quarters ending 31 December Table 6 Calculation of Tasmanian Cap Values Costing Quarter Costing Quarter Forecast Inflation Rate Nominal Post Tax Debt Cost Pre-Tax Real WACC Real Annual Operating Cost Real Annual Operating Cost Real Annual Operating Cost Real Total Capital Cost Construction Quarter Table 7 Contract premiums Off-Peak Contract Premium Sand/MWh Sand/MWh Sound Table 7 Contract Premium Sand/MWh Sound Ade2MW 462MW 404 Quarter ending 30 June 2016 Quarter	Off-Peak Marginal Loss Factor	1.000	1.001
Average Basslink Flow Import Table 5 New Committed Wind Generation Quarters ending 31 March Quarters ending 30 June Quarters ending 30 June Quarters ending 30 September Quarters ending 31 December Table 6 Calculation of Tasmanian Cap Values Costing Quarter Costing Quarter Costing Quarter Economic Life Torecast Inflation Rate Nominal Post Tax Debt Cost Pre-Tax Real WACC Real Annual Operating Cost Real Annual Operating Cost Real Annual Operating Cost Construction Quarter Table 7 Contract premiums Off-Peak Contract Premium Suppose A 206 203 Quarter ending 30 June 2016 Quarter ending 30 June 2019 Quarter ending 30 June 2019 25 years 25 years 2.00% p.a. 2.39% p.a. 4.7% p.a. \$4.87/kW (\$ as at Costing Quarter) \$895/kW (\$ as at Costing Quarter)	Peak Marginal Loss Factor	0.949	0.952
Table 5 New Committed Wind Generation Quarters ending 31 March Quarters ending 30 June Quarters ending 30 September Quarters ending 31 December Table 6 Calculation of Tasmanian Cap Values Costing Quarter Economic Life Forecast Inflation Rate Nominal Post Tax Debt Cost Pre-Tax Real WACC Real Annual Operating Cost Real Total Capital Cost Construction Quarter Real Total Capital Cost Construction Quarter Contract premiums Off-Peak Contract Premium 206 203 204 204 204 204 204 208 Quarter ending 30 June 2016 30 years 225years 25 years 25 years 2.25% p.a. 2.20% p.a. 2.20% p.a. 2.39% p.a. 4.7% p.a. \$4.87/kW (\$ as at Costing Quarter) \$895/kW (\$ as at Costing Quarter) \$895/kW (\$ as at Costing Quarter) \$895/kW (\$ as at Costing Quarter) \$805/kW (\$ as at Costing Quarter)	Average Basslink Flow Export	500MW	500MW
Quarters ending 31 March Quarters ending 30 June Quarters ending 30 September Quarters ending 31 December Table 6 Calculation of Tasmanian Cap Values Costing Quarter Economic Life Forecast Inflation Rate Nominal Post Tax Debt Cost Pre-Tax Real WACC Real Annual Operating Cost Real Total Capital Cost Construction Quarter Table 7 Contract premiums Off-Peak Contract Premium 206 203 204 204 204 204 204 204 204 204 204 204	Average Basslink Flow Import	462MW	462MW
Quarters ending 30 June Quarters ending 30 September Quarters ending 31 December Table 6 Calculation of Tasmanian Cap Values Costing Quarter Economic Life Forecast Inflation Rate Nominal Post Tax Debt Cost Pre-Tax Real WACC Real Annual Operating Cost Real Total Capital Cost Construction Quarter Table 7 Contract premiums Off-Peak Contract Premium 201 232 227 Quarter ending 30 June 2016 Quarter ending 30 June 2019 25 years 2.25% p.a. 3.20% p.a. 2.25% p.a. 2.20% p.a. 2.39% p.a. 4.7% p.a. 4.87/kW (\$ as at Costing Quarter) \$895/kW (\$ as at Costing Quarter) \$895/kW (\$ as at Costing Quarter) \$895/kW (\$ as at Costing Quarter) \$3.40/MWh			
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Table 6 Calculation of Tasmanian Cap Values Costing Quarter Economic Life Forecast Inflation Rate Nominal Post Tax Debt Cost Pre-Tax Real WACC Real Annual Operating Cost Real Total Capital Cost Construction Quarter Table 7 Contract premiums Off-Peak Contract Premium Quarter ending 30 June 2019 25 years 2.20% p.a. 2.20% p.a. 2.39% p.a. 2.39% p.a. 4.7% p.a. 4.7% p.a. 4.87/kW (\$ as at Costing Quarter) \$\$895/kW (\$ as at Costing Quarter)		230	234
Costing Quarter Economic Life Solvears Forecast Inflation Rate Nominal Post Tax Debt Cost Pre-Tax Real WACC Real Annual Operating Cost Real Total Capital Cost Construction Quarter Construction Quarter Table 7 Contract premiums Off-Peak Contract Premium Quarter ending 30 June 2019 25 years 2.20% p.a. 3.20% p.a. 3.20% p.a. 5.8% p.a. 5.8% p.a. \$10.13/kW (\$ as at Costing Quarter) \$10.13/kW (\$ as at Costing Quarter) \$10.67/kW (\$ as at Costing Quarter) \$2028 \$3.40/MWh \$3.40/MWh	Quarters ending 31 December	232	227
Economic Life Forecast Inflation Rate Forecast Inflation Rate Nominal Post Tax Debt Cost Pre-Tax Real WACC Real Annual Operating Cost Real Total Capital Cost Construction Quarter Table 7 Contract premiums Off-Peak Contract Premium 25 years 25 years 2.00% p.a. 2.39% p.a. 4.7% p.a. 4.7% p.a. \$4.87/kW (\$ as at Costing Quarter) \$895/kW (\$ as at Costing Quarter) \$895/kW (\$ as at Costing Quarter) \$2029 \$3.40/MWh \$3.40/MWh	•		
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Construction Quarter 2028 2029 Table 7 Contract premiums Off-Peak Contract Premium \$3.40/MWh \$3.40/MWh	, ,		
Table 7 Contract premiums Off-Peak Contract Premium \$3.40/MWh \$3.40/MWh	•		
Off-Peak Contract Premium \$3.40/MWh \$3.40/MWh	Construction Quarter	2028	2029
	Table 7 Contract premiums		
Peak Contract Premium \$15.60/MWh \$15.60/MWh	Off-Peak Contract Premium	\$3.40/MWh	\$3.40/MWh
	Peak Contract Premium	\$15.60/MWh	\$15.60/MWh

Note 1: the new values apply from 1 October 2019