Increase in Rhodders electrical losses - in Private Cable

Rhodders WF generation = 6 off 2.05MW = 6 x 2.05MW = **12.3MW**

Combined Rhodders and Burnfoot East WF generation = 6 x 2.05 MW + 3 x 3.6MW = **23.1MW**

Rhodders electrical losses within Private Cable

Rhodders WF only losses
(see page - Rhodders WF cable losses)

Generation in %	Total losses kW	Total losses as % of 12.3MW generation
100	13.13	0.11
75	7.38	0.06
50	3.28	0.03
25	0.82	0.01
0	0.00	0.00

Combined electrical losses within Private Cable

Combined Rhodders + BFE losses
(see page - Combined R + BFE cable losses)

Generation in %	Total losses kW	Total losses as % of 23.1MW generation
100	46.30	0.20
75	26.05	0.11
50	11.58	0.05
25	2.89	0.01
0	0.00	0.00

Increase in Rhodders electrical losses within Private Cable

Increase in Rhodders WF Private Cable losses are proportioned as a (12.3/23.1) factor of the new total losses

Generation in %	Total losses kW (R + BFE)	New Rhodders losses = (12.3/23.1) of new Total losses in kW	New total Rhodders losses as % of 12.3MW generation	Resulting increase in losses in kW	Resulting increase in losses in percentage of 12.3MW
100	46.30	24.66	0.20	11.53	0.09
75	26.05	13.87	0.11	6.48	0.05
50	11.58	6.16	0.05	2.88	0.02
25	2.89	1.54	0.01	0.72	0.01
0	0.00	0.00	0.00	0.00	0.00

Note - COP2 accuracy is 1% and therefore the measurable accuracy for Rhodders WF will be 123kW. Which means the real losses in the Private Cable are not accurately measurable, either before or after, combining with Burnfoot East WF. This being due to Private cable being significantly oversized for the combined connection requirements