





ESCOSA - Wind Interconnection Requirements Capable of +/-93% PF at high side of power transformer • at full generation. Half of PF correction capability shall be dynamic. • Reactive output proportional to generation level. • Regulate transmission system voltage. • Avoid tripping wind farm for nearby transmission grid • faults and high voltage (LVRT, HVRT). Restore transmission system post fault voltage to a • minimum of 90%. Requirements can be met primarily by installing dynamic and static reactive resources. ANS 4



Lake Bonney 2 Reactive Compensation Requirements at Full Generation			
Target Requirements	Capacitive	Inductiv	<u>′e</u>
 +/-93% PF at 132 kV 	63	63	
 Include reactive losses 			
- GSU transformer	12	-12	47
 33 kV collector grid 	11	-11	4/ MVAR
 132-33 kV transformers 	<u>24</u>	<u>-24</u>	
Total Reactive Required	110	16	
50% Dynamic	55	8	5
50% Non-dynamic	55	- 8	1
6			AMSC





















