

## References

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Appendix-A: Governor capability of large machines in Sri Lankan system (Source: System Control Center, CEB)

Power Station	Unit No.	Mode of frequency/MW control		Mode of Voltage / Mvar control	AVR setting
		Free Governor /Fixed load .etc	Droop Setting		
Victoria	1,2,3	Free Governor	ep1: 1.2% , ep2: 4.6%	Voltage Control	12.5kV +/- 5%
Kothmale	1,2,3	ep1/ep2	ep1: 2.4% , ep2: 8.9%	AVR	Auto
Randenigala	1,2	Fixed Load	5%	Fixed	Auto
Rantabe	1,2	Fixed Load	5%	Fixed	Auto
Ukuwela	1	Free Governor	3%	AVR	10 Mvar/- 10 Mvar
Bowathenna	1	Free Governor	5%	AVR	10 Mvar/- 0 Mvar
WPS	1,2	Free Governor	5%	AVR	11kV
Canyon	1,2	Load Limiter Operation forced Governor	5%	AVR	5%
N/Laxapana	1,2	Free Governor	5%	AVR	12.5kV
O/Laxapana	1,2,3,4,5	Free Governor	4%, 4%, 4%, 5%, 5%	MVAR	11kV
Polpitiya	1,2	Fixed Load	6%, 8%	AVR	12.5kV
Samanalawewa	1,2	Free Governor	4.50%	AVR	10.5 kV - 0.88/1.1 pu
Kukule	1,2	Free Governor	5%	Voltage Control	13.8kV +/- 10%
Puttalam Coal	1,2,3	Fixed Load	N/A	Auto/Manual	~0.9-1.1 pu
Sapugaskanda A	1,2,3,4	Fixed Load	5%,7%,8%,7%	VAR Mode	Usually set at 8 Mvar subjected to system control requirement and stator winding temperature
Sapugaskanda B	5,6,7,8,9,10,11,12	Fixed Load	7.5%, 7.7%, 7.2%, 7.2%, 8.0%, 7.5%, 7.8%, 7.5%	PF Mode	Usually set at .8 subjected to system control requirement and stator winding temperature
KCCP GT	1		4%		
KCCP ST	1		4%		
AES GT	1	Droop mode	4%	VAR Mode	10.5 kV +/- 10%
AES ST	1	Droop mode	5%	VAR Mode	10.5 kV +/- 10%
WCP GT	1,2	Free Governor	4%		
WCP ST	1	Free Governor	4%		

End of Thesis