1 Results

Using ENApp, the

Various Analyses on IEEE 123 Node System in a 5 Hour Horizon

IEEE 123 Node System for a 12 Hour Horizon to Demonstrate Scalability

Table 1: Combined MPDOPF and OpenDSS Results (Substation Power Cost Minimization - 12 Hour Horizon)

Metric	MPDOPF	OpenDSS
Line Loss	194.14 kW	194.05 kW
Substation Real Power	10595.10 kW	10595.71 kW
Substation Reactive Power	2068.79 kVAr	$2058.30~\mathrm{kVAr}$
PV Real Power	272.60 kW	272.60 kW
PV Reactive Power	66.04 kVAr	66.03 kVAr
Battery Real Power	-17.04 kW	-17.04 kW
Battery Reactive Power	-83.30 kVAr	-83.30 kVAr
Substation Power Cost	\$1424.54	\$1424.63
Demand Real Power	10657.21 kW	
Demand Reactive Power	5863.79 kVAr	

redProvide a separate graph for PV, Load forecasts for T=5 and 12

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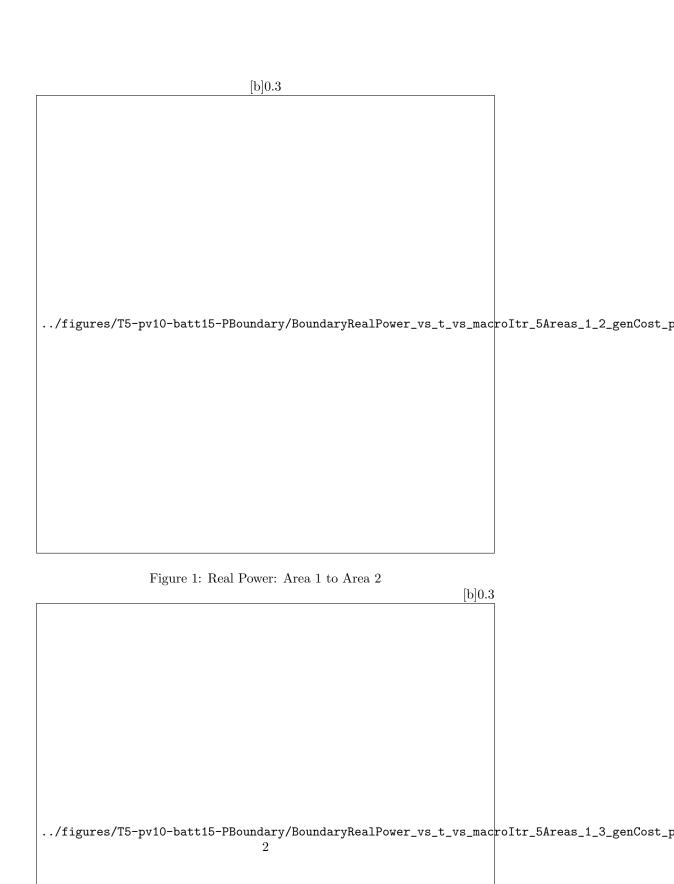




Figure 8: Charging-Discharging and SOC graphs for Battery 9 located in Area $4\,$