ELD

900

Upload input as .txt file

Upload | Choose File | Sample_Input2.txt

(or)

Add/Edit Inputs

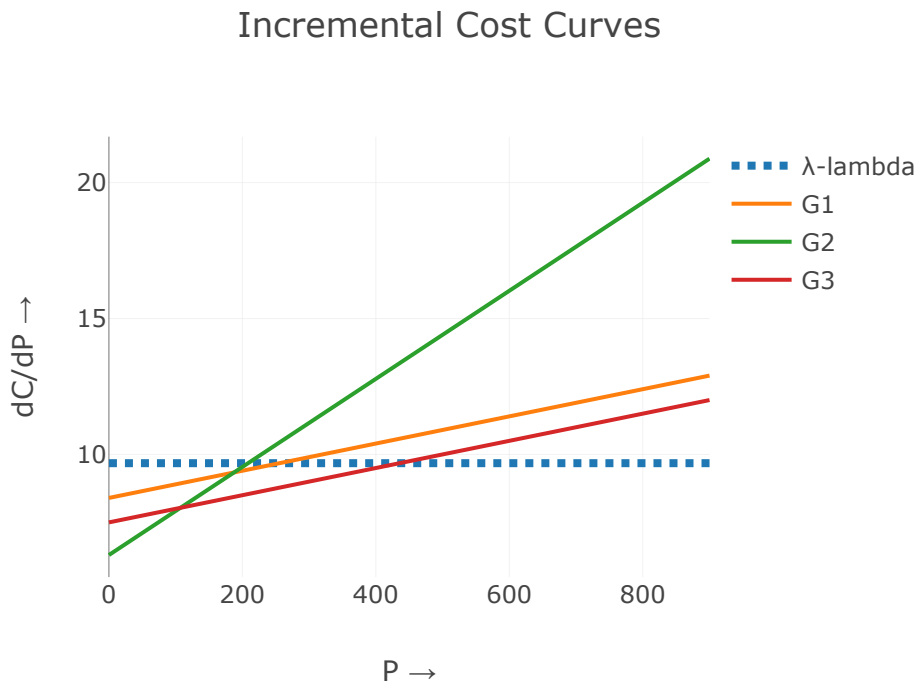
a | b | c | Pmin | Pmax | Add

Generator	a	b	c	Pmin	Pmax		
G1	0.0025	8.4	225	45	350		
G2	0.0081	6.3	729	45	350		
G3	0.0025	7.5	400	47.5	450		

Compute

Given Data

P_D = 900 MW

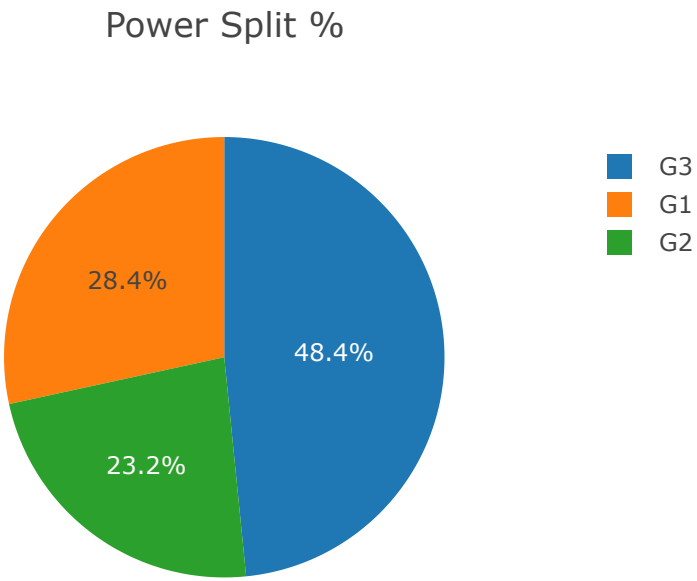


Generator	Cost Function	Incremental Cost Function
G1	0.0025**P**^{2} + 8.4**P** + 225	0.005**P** + 8.4
G2	0.0081**P**^{2} + 6.3**P** + 729	0.0162**P** + 6.3
G3	0.0025**P**^{2} + 7.5**P** + 400	0.005**P** + 7.5

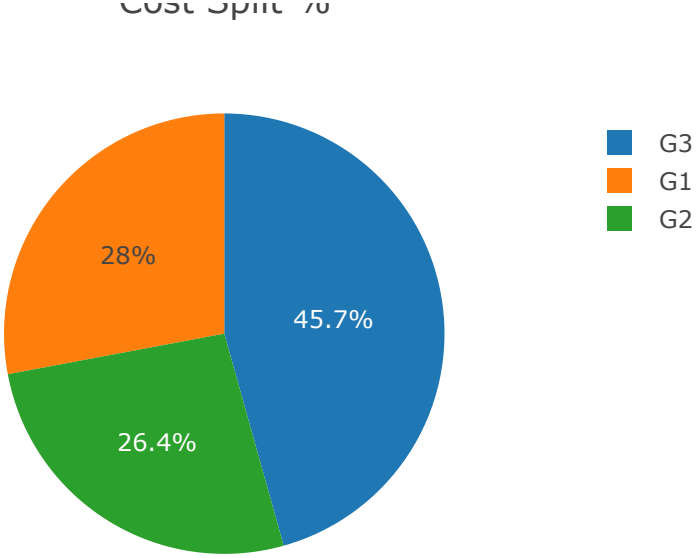
Results

λ = 9.679

Generator	Power (MW)	Cost
G1	255.722	2536.55
G2	208.556	2395.22
G3	435.722	4142.55
Total	**900**	**9074.316**



Cost Split %


Cost Split %
G3
G1
G2
28%
45.7%
26.4%