

ELD 

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Sample_Input1.txt

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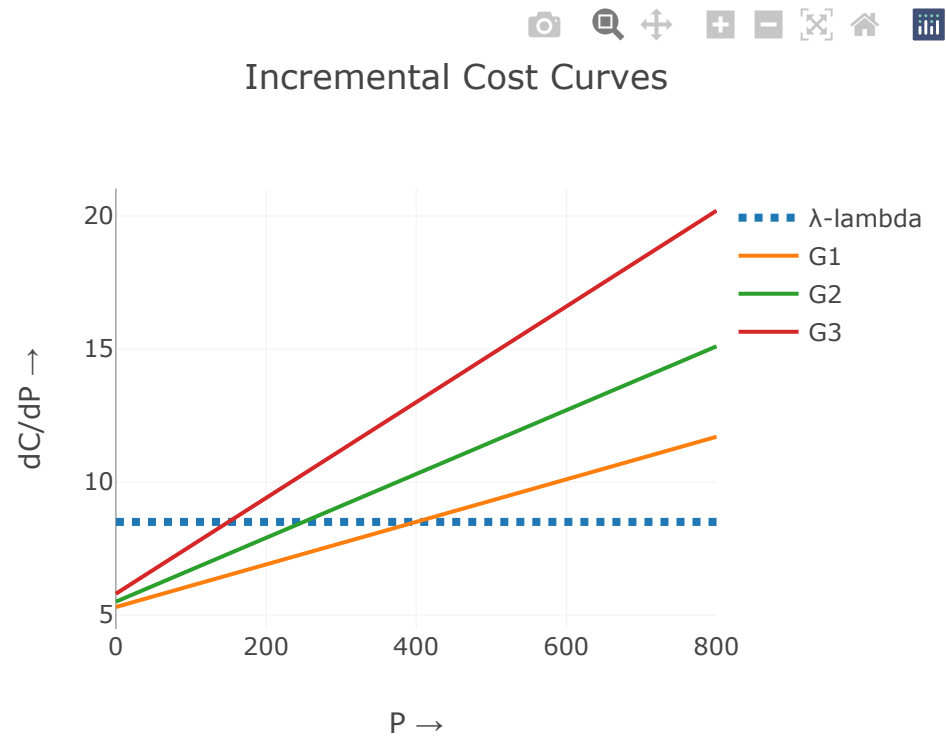
Add

Generator	a	b	c	Pmin	Pmax		
G1	0.004	5.3	500	NaN	NaN		
G2	0.006	5.5	400	NaN	NaN		
G3	0.009	5.8	200	NaN	NaN		

Compute

Given Data

$$P_D = 800 \text{ MW}$$



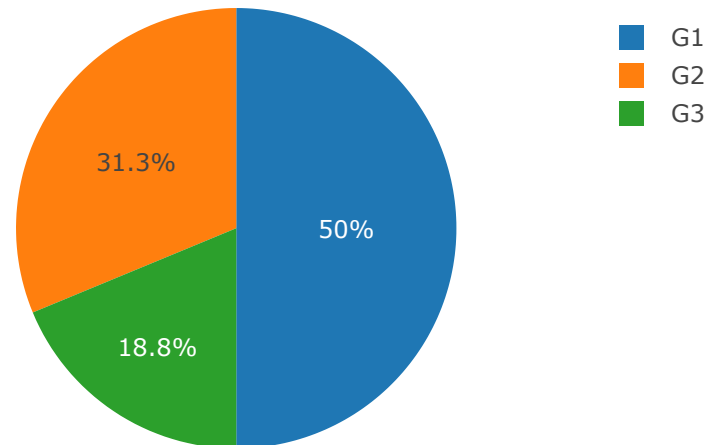
Generator	Cost Function	Incremental Cost Function
G1	$0.004P^2 + 5.3P + 500$	$0.008P + 5.3$
G2	$0.006P^2 + 5.5P + 400$	$0.012P + 5.5$
G3	$0.009P^2 + 5.8P + 200$	$0.018P + 5.8$

Results

$$\lambda = 8.500$$

Generator	Power (MW)	Cost
G1	400.000	3260.00
G2	250.000	2150.00
G3	150.000	1272.50
Total	800	6682.500

Power Split %



Cost Split %

