

Enter Power Demand (MW)

Upload input as .txt file

Upload

Choose File

Sample_Input2.txt

(or)
Add Inputs

a







b

c

Pmin

Pmax

Add

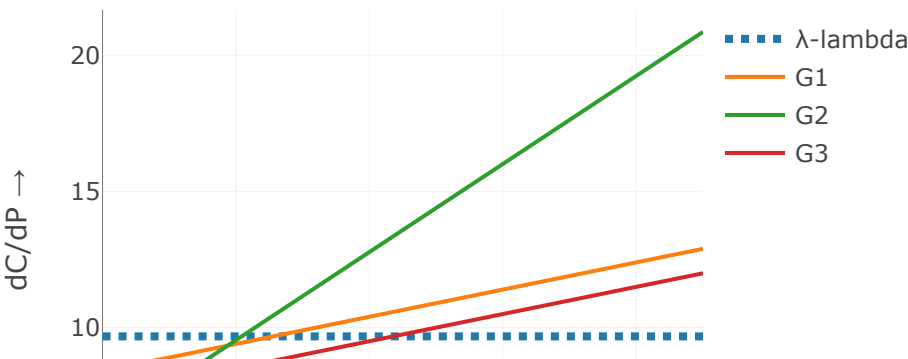
Generator	a	b	c	Pmin	Pmax		
G1	0.0025	8.4	225	45	350		
G2	0.0081	6.3	729	45	350		
G3	0.0025	7.5	400	47.5	450		

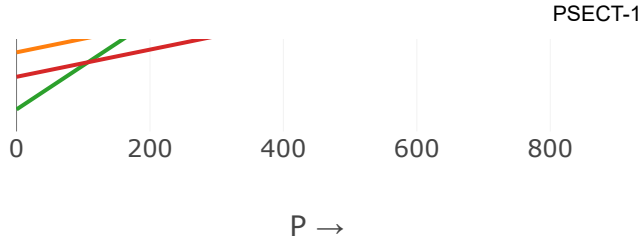
Compute

Given Data

$P_D = 900 \text{ MW}$

Incremental Cost Curves





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

Results

$\lambda = 9.679$

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

