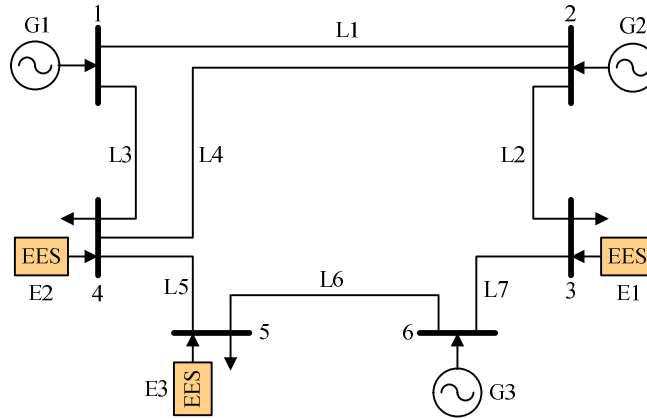


## 6-Bus System Data

### 1- One-line Diagram



### 2- Units data

Unit	Cost Coefficients			Startup Cost (\$)	Shutdown Cost (\$)	Pmin (MW)	Pmax (MW)	Min On (h)	Min Off (h)	Ramp (MW/h)
	a (\$)	b (\$/MW)	c (\$/MW <sup>2</sup> )							
G1	177	13.5	0.00045	100	50	100	220	4	4	55
G2	130	40	0.001	200	100	10	100	3	2	50
G3	137	17.7	0.005	0	0	10	70	1	1	20

### 3- Transmission lines data

Line No.	From Bus	To Bus	X (pu)	Flow Limit (MW)
1	1	2	0.170	200
2	2	3	0.037	100
3	1	4	0.258	100
4	2	4	0.197	100
5	4	5	0.037	100
6	5	6	0.140	100
7	3	6	0.018	100

### 4- Load data

HOURLY LOAD DATA

Hour	1	2	3	4	5	6	7	8	9	10	11	12
Load (MW)	179.2	168.0	162.4	156.8	156.8	162.4	179.2	212.8	243.6	266	277.2	280.0
Hour	13	14	15	16	17	18	19	20	21	22	23	24
Load (MW)	277.2	280.0	280.0	271.6	268.8	268.8	260.4	257.6	257.6	260.4	243.6	201.6

BUS LOAD DISTRIBUTION PROFILE

Bus No	Load (%)
3	20
4	40
5	40