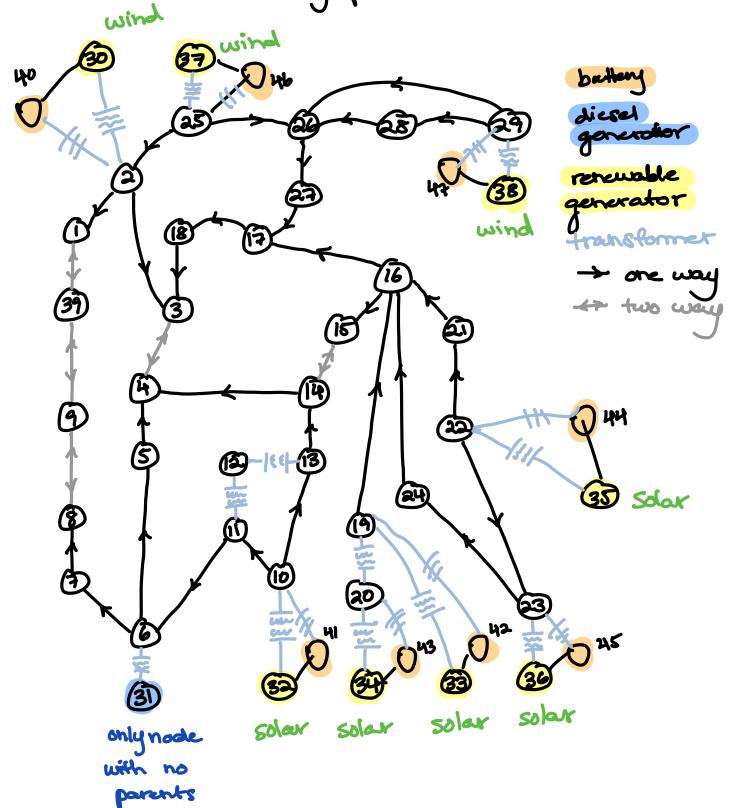
## IEEE 39-bus Test System

Only allows 1-way power flow. We will allow 2-way power flow.



Node	Children	Parents	Generator?
ı	2,39	2,39	2
2	3	25,30	ha
3	4,18	2	no
4	3	5,14	no
5	4,8	6	no
6	5,7	ແ'3(	no
7	8	6	no
8	9	5,7	no
9	8,39	8,39	no
10	n,ເ3	32	no
11	12,31	10,12	<b>no</b>
12	ນ, ເ3	11, I3	100
13	12,14	10	no
14	4, 15	13	hó
15	14	16	100
16	15,17,24	19,21	no
17	18,27	16	no
18	3	17	no
19	16,20	23	no
20	19,34	19,34	no
ລ	16	22	no
22	21,23	35	ns

Node	Children	Parents	Generator?
23	24	22,36	no
24	16	23	nò
25	2,26	37	no
26	27	25,28,29	no
27	17	26	ns
22	26	29	no
29	28,26	38	no
<b>3</b> 0		2	yes
31		6	yes
32		10	yes
33		19	yes
34		20	yes
35		22	yes yes yes
36		23	yes
37		25	yes
38		29	yes yes
39		1,2	yes

## Radial 39- bus test system

