

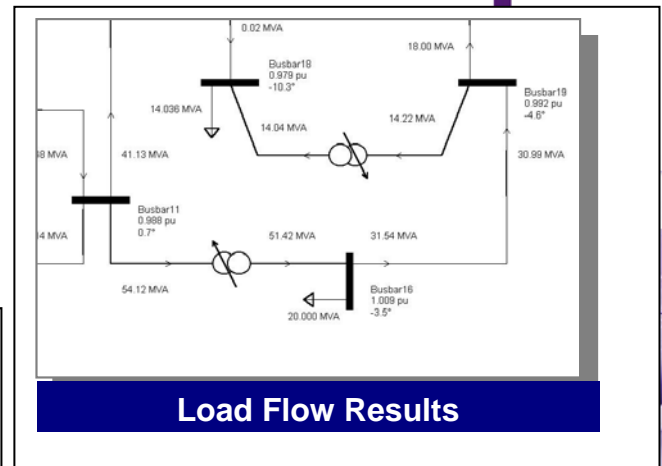
Utility Management Consulting

Specialist Studies

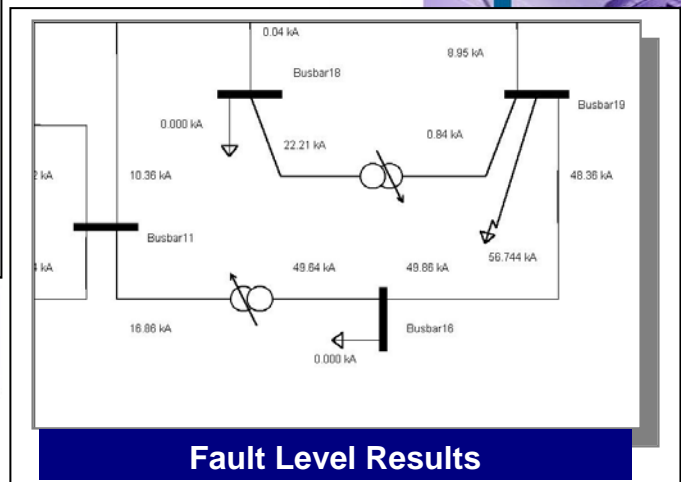
Power System Studies



- Network Analysis (Load Flow- & Fault Level Analysis)
- Nameplate Database
- Geographic or Schematic Line Diagrams to represent network.
- Calculate network losses
- Evaluate network capabilities
- Identify network weakness
- Determine suitable network expansion



	From	To	Name	Status	To P(kW)	To Q(kVAr)	Fr P(kW)	Fr Q(kVAr)	Loss P(kW)	Loss Q(kVAr)	OL
1	Busbar2	Busbar3	Line2	In	20792.8	-21267.1	-20782.7	21387.2	10.0	100.2	N
2	Busbar2	Busbar4	Line3	In	42145.1	-22939.3	-42119.1	23049.2	26.0	109.9	N
3	Busbar2	Busbar5	Line4	In	-12738.7	-23516.9	12779.2	23598.0	40.6	81.1	N
4	Busbar5	Gen1	Line6	In	22322.3	7092.6	-22261.3	-6483.1	61.0	609.5	N
5	Joint	Busbar8	Line8	In	-41452.9	-34090.9	41485.7	34418.7	32.8	327.8	N
6	Busbar4	Busbar10	Line9	In	61973.3	-12958.3	-61968.7	13003.7	4.5	45.3	N
7	Busbar8	Busbar11	Line10	In	-21688.7	-4442.7	21689.3	4445.5	0.6	2.8	N
8	Busbar11	Busbar9	Line11	In	55406.6	3871.2	-55371.6	-3520.8	35.0	350.3	N
9	Busbar11	Busbar12	Line12	In	-33385.3	24106.4	33394.9	-24010.1	9.6	96.3	N
10	Busbar10	Busbar12	Line13	In	-1024.9	-16011.3	1027.8	16040.6	2.9	29.2	N
11	Busbar3	Busbar14	Line16	In	22302.4	-18856.6	-22292.8	18953.5	9.7	96.8	N
12	Busbar14	Busbar12	Line17	In	22312.1	-18846.9	-22302.4	18856.6	9.7	97.1	N
13	Busbar15	Busbar17	Line20	In	-6500.0	-4923.0	6513.2	4962.5	13.2	39.5	N
14	Busbar16	Busbar19	Line21	In	-27426.9	-14436.2	27622.2	15217.1	195.2	780.8	N
15	Busbar19	SmallGen	Line22	In	-13406.2	-11998.7	13416.1	12005.3	9.9	6.6	N
16	Busbar20	Busbar18	Line24	In	-2.0	18.4	2.0	-18.2	0.0	0.2	N
17	Gen1	Joint	Line1	In	-86641.2	32148.1	87676.8	-31502.6	1035.6	645.3	N
18	Busbar2	Joint	Line5	In	45155.6	-66566.8	-44372.7	67018.7	782.9	451.9	N



Analysis Types:

- Analysis software for each environment.
- PSS/ADEPT - Modeling of balanced and unbalanced systems. Ideal for urban and reticulation LV networks.
- PSS/VIPER – Modeling of balanced 3phase networks. Capable of analysing standard and non-standard power frequencies i.e. other than 50hz.
- PSS/E – Modeling of balanced 3phase networks. Full house range of power system analysis tools, from loadflow to eigen analysis.