

**GIS Shadow Study Exercise 1.2**  
**INDIVIDUAL PRACTICE EXERCISES**

Name\_\_\_\_\_

Date\_\_\_\_\_

**Description: Steady State (Load Flow) Analysis**

1. Formulate the study criteria ☐
2. Set minimum load and no PV interconnection project. Perform load flow analysis. ☐
3. Set minimum load with the PV Interconnection Project at maximum output. Perform load flow analysis. ☐
4. Set maximum load and no PV interconnection project. Perform load flow analysis. ☐
5. Set maximum load with the PV Interconnection Project at maximum output. Perform load flow analysis. ☐
6. Create following table for each of the above scenarios ☐

Power Factor at PCC	Power Factor of Inverter	Individual Inverter output (kW)	Total Plant output (kW)	Individual Inverter KVA	Losses (kW)	Voltage at PCC	Step Voltage Change due to sudden loss of PV	Comments
0.88 lag								
Unity								
0.88 lead								