

## (hr = 6 am to 6 pm)Determine hourly effective minimum load $(Eff_{load}^{hr})$

Hourly PV Impact Analysis

Determine normalized PV generation for the selected hour.  $(PV_{norm}^{hr})$ For each PV penetration and each PV

PV generation for the given hour.  $PV_{pen}^{i}(hr) = PV_{pen}^{i} \times PV_{norm}^{hr}$ Simulate load flow analysis for each

deployment scenario calculate the actual

deployment scenarios and measure largest primary voltages.  $(V_{max,k}(hr))$ 

Determine hourly First- and All-PV hosting capacity using (6) and (7), 
$$(H_{1,k}(hr) \text{ and } H_{100,k}(hr))$$

Determine circuit's First-hosting and All-hosting capacity