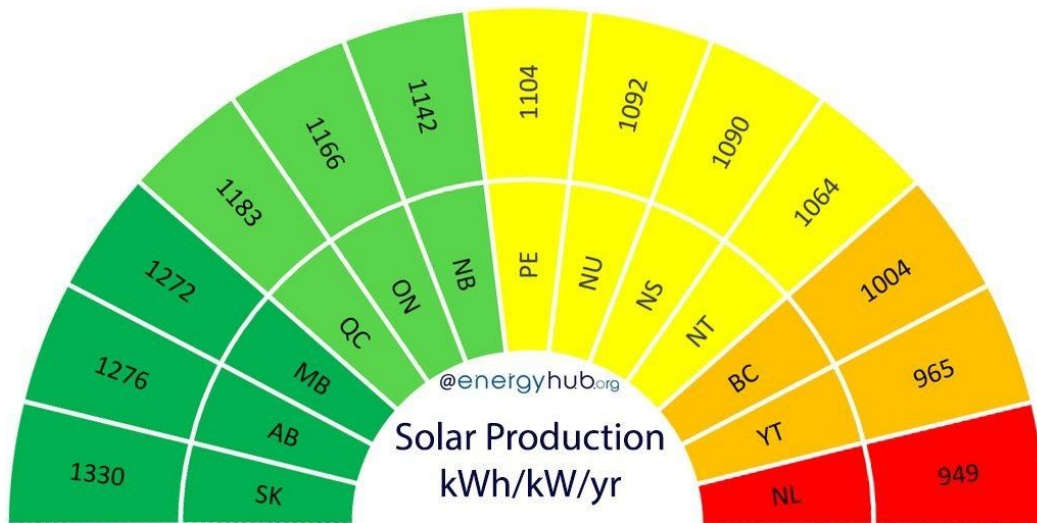


1.0 Solar Panels:

Panel / model name	Price (\$)	Power (W)	Size
TSM-DD05H.05-310B OB	250	310	18.8kg 1675 x 992 mm
SEG-6MB-305BB	154	305	17.5kg 1640 x 992 mm
REC320TP2M	205	320	18.5kg 1675 x 997 mm
RNG-160DB-H	330	160	2.8kg 1504 x 673 mm

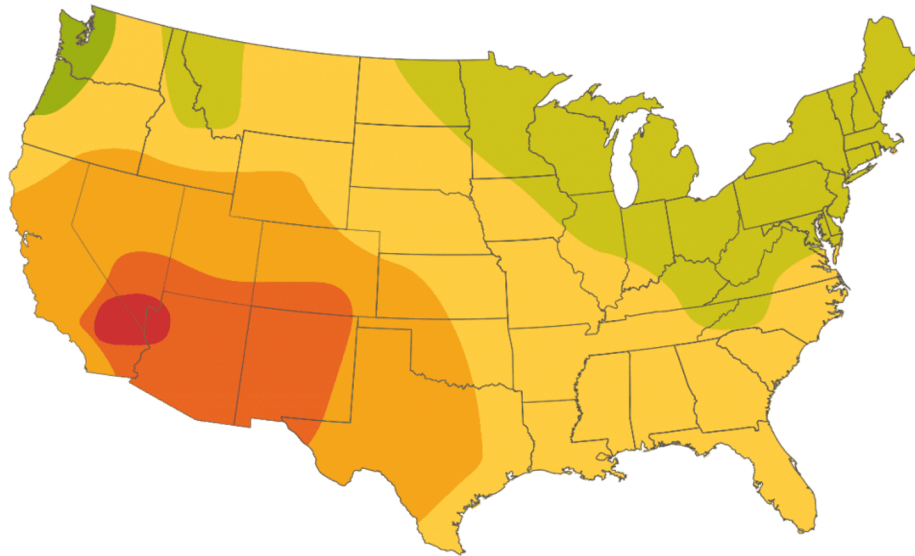
2.0 Calculate annual energy production:

Average solar production in Canada:



$$\text{Annual production [kWh]} = \text{solar production [kWh/kW/yr]} * \text{panel generation [W]}/1000[\text{W/kW}]$$

Peak sun hours in the US:

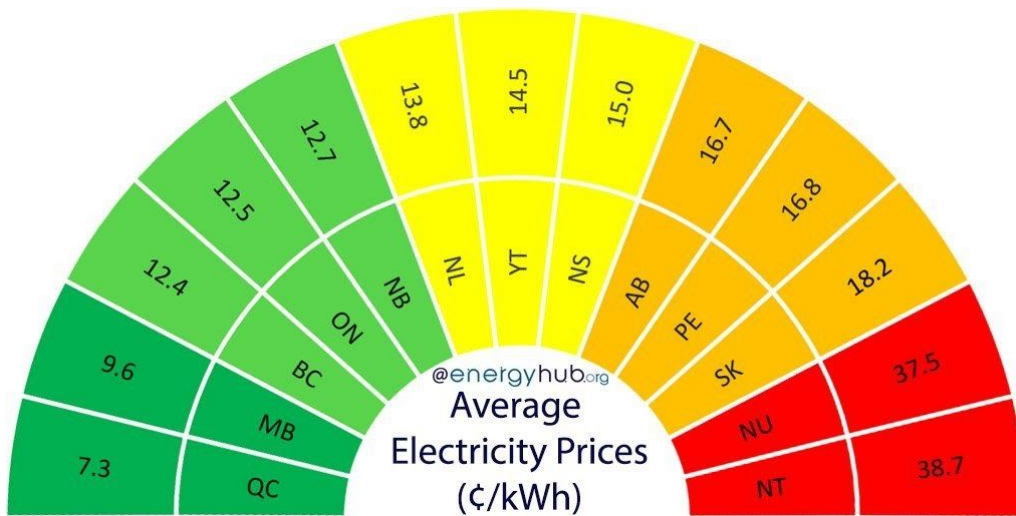


PEAK SUN HOURS



$$\text{Annual production [kWh]} = \text{peak hours [h/day]} * 365 [\text{day}] * \text{panel generation [W]} / 1000 [\text{W/kW}]$$

Electricity prices for different provinces in Canada:



$$\text{Electricity Saving [\$]} = \text{Annual electricity production [kWh]} * \text{average prices [¢/kWh]} / 100 [¢/\$]$$