



# BATTERY BANK AND SOLAR SIZING

## BATTERY BANK SIZING

CONVERT KWH TO WATT HOURS

$$\underline{\hspace{2cm}} \text{ KWH} \times 1,000 = \underline{\hspace{2cm}} \text{ WATT HOURS}$$

CONVERT WATT HOURS TO AMP HOURS

$$\underline{\hspace{2cm}} \text{ WH} \div \frac{\text{VOLTS}}{\text{BATTERY VOLTAGE}} = \underline{\hspace{2cm}} \text{ AMP HOURS}$$

## NREL SOLAR PANEL ESTIMATE

$$\text{MONTH KWH} \times 1000 = \underline{\hspace{2cm}} \text{ WH PER MONTH} \quad \text{DIVIDE BY DAYS OF MONTH (31)} = \underline{\hspace{2cm}} \text{ WH PER DAY}$$

CONVERT WATT HOURS TO AMP HOURS

$$\underline{\hspace{2cm}} \text{ WH} \div \frac{\text{VOLTS}}{\text{BATTERY VOLTAGE}} = \underline{\hspace{2cm}} \text{ AMP HOURS}$$