



Calculating Your School's Avoided Carbon Dioxide (CO₂) Emissions

1. Use your school's Energy Report to determine Total Annual Electricity Consumption in kilowatt-hours (kWh).
2. Multiply the Total Annual Electricity Consumption (TAEC) by the Energy Savings (ES) {in percent (%), divided by 100}, to date to obtain Annual Electricity Savings (AES) in kilowatt-hours (kWh).

Annual Electricity Savings (AES):

$$\frac{\text{TAEC kWh}}{\quad} \times \frac{\text{ES \%}}{100} = \frac{\text{AES kWh}}{\quad}$$

$$\frac{\quad \text{kWh}}{\quad} \times \frac{\quad \%}{100} = \frac{\quad \text{kWh}}{\quad}$$

3. Take the answer from the above calculation and multiply by the Carbon Dioxide Emissions conversion factor (0.30 kg/kWh). This will give you avoided Carbon Dioxide Equivalent Emissions in kilograms.

Avoided Carbon Dioxide Equivalent Emissions:

$$\frac{\quad \text{kWh}}{\quad \text{(AES)}} \times 0.30 \text{kg/kWh} = \frac{\quad \text{kg}}{\quad}$$

4. Plot the answer on the carbon dioxide graph on your DC poster.