



Our Carbon Commitment PVCC Sustainability

Reduce. Reuse. Recycle

Did you know? We are replacing exterior lighting to LEDs around campus!

These changes will result in significant cost and greenhouse gas savings. For more information visit: paradisevalley.edu/sustainability



PVCC's Sustainability Committee wants our community to learn about changes we are making toward reducing our carbon footprint and adopting a more mindful way of living. Watch for more reports to follow.

| Description – Pole Lights Replacement | kWh | \$\$** |
|--|-----------------|----------|
| Existing Annual System Consumption | 435,543 | \$21,777 |
| Proposed Annual Consumption | 99,982 | \$4,999 |
| Estimated Annual Maintenance expense reductions | | \$2,466 |
| Proposed Annual System Energy Reduction Savings | 335,561 | \$19,244 |
| Greenhouse gas (GHG) Annual Savings - per U.S. Energy Recovery, Inc. | 327.16 | |
| Estimated GHG savings over 20-year lifetime | 6,543.16 | |

**Payback period for lighting upgrade: 4.11 years

| kWh energy reduction is equivalent* to any of the below: | 1 year | 20 years |
|--|--------|----------|
|--|--------|----------|

Greenhouse gas emissions from:

| | | |
|--|---------|------------|
| Passenger vehicles driven for one year | 49.8 | 996 |
| Miles driven by an average passenger vehicle | 565,189 | 11,303,780 |
| Tons of waste recycled instead of landfilled | 74.8 | 1,496 |
| Garbage trucks of waste recycled instead of landfilled | 10.7 | 214 |

CO2 emissions from:

| | | |
|-------------------------------------|---------|-----------|
| Gallons of gasoline consumed | 26,536 | 530,720 |
| Pounds of coal burned | 251,647 | 5,032,940 |
| Homes' electricity use for one year | 34.8 | 696 |
| Barrels of oil consumed | 546 | 10,920 |
| Tanker trucks' worth of gasoline | 3.1 | 62 |

Carbon sequestered by

| | | |
|-----------------------------------|-------|---------|
| Tree seedlings grown for 10 years | 6,112 | 122,240 |
| Acres of U.S. forests in one year | 223 | 4,460 |

| | |
|---|-----------------|
| Description: Wallpack Lighting replaced with LED fixtures Annual Savings | \$11,903 |
|---|-----------------|

Annual kWh energy reduction is equivalent* to any of the below:

Greenhouse gas emissions from:

| | | |
|--|---------|--|
| Passenger vehicles driven for one year | 17.7 | |
| Miles driven by an average passenger vehicle | 200,493 | |
| Tons of waste recycled instead of landfilled | 26.5 | |
| Garbage trucks of waste recycled instead of landfilled | 3.8 | |

CO2 emissions from:

| | | |
|-------------------------------------|--------|--|
| Gallons of gasoline consumed | 9,413 | |
| Pounds of coal burned | 89,268 | |
| Homes' electricity use for one year | 8.8 | |
| Barrels of oil consumed | 194 | |
| Tanker trucks' worth of gasoline | 1.1 | |

Carbon sequestered by

| | | |
|-----------------------------------|-------|--|
| Tree seedlings grown for 10 years | 2,168 | |
| Acres of U.S. forests in one year | 79.2 | |

*Per EPA Calculator