



Why Solar? – Green Life, Green Brea Benefits

Brea's Energy Efficiency and Solar Power Project helps Brea meet goals of the Global Warming Solutions Act, AB 32. Energy retrofits and solar generation within the city **reduce Brea's carbon emissions an estimated 40% annually** at the PV install sites. This is equivalent to removing 637 passenger vehicles from local roads. The Project helps the City save on energy costs, makes wise use of taxpayer dollars, and leads the way for other cities to create similar energy efficiency projects.

Why Solar? Solar has few moving parts and no fuel costs, meaning solar PV systems require little operations and maintenance compared to other energy generation sources. While the day-to-day operation does not require extensive user input, regular maintenance inspections and cleaning are needed to ensure the system is working properly. However, this is well within the scope of staff capabilities. CES also provides a ten-year maintenance program to assist with this.

◇ It is expected that the solar portion of the project can easily provide 41.6% of the power needed to operate the Civic Center, BCC, and Public Works Yard.

◇ Combined, these **three solar sites will offset 1,833 metric tons of carbon dioxide each year**- equivalent to taking 345 passenger vehicles off the road or planting 428 acres of pine trees.

◇ The PV shade structures at the BCC provide health and safety benefits by protecting visitors and building equipment from harmful UV rays.

◇ Over the course of 25 years, this project will reduce the carbon dioxide emissions for the City of Brea by 47,075 metric tons; equivalent to taking 8,625 passenger cars off the road or planting 10,700 acres of pine trees.