



## Belmar Solar Array Fact Sheet

- The Belmar Solar Array will begin operating late summer 2008.
- The Belmar Solar Array consists of approximately 8,370 panels and is 125,000 square feet in area. WHILE THERE ARE OTHER STRUCTURAL ROOFTOP ARRAY SYSTEMS ACROSS THE COUNTRY, THE ARRAY AT BELMAR IS THE LARGEST AT THIS TIME.
- The Belmar Solar Array is a 1.75 mega watt system generating approximately 2.3 million kilowatt hours of electrical energy per year. SAID ANOTHER WAY, THIS WILL PRODUCE THE EQUIVALENT CHEMICAL ENERGY TO POWER THE AVERAGE AUTOMOBILE WITH 38,132 GALLONS OF GAS PER YEAR OR 104 GALLONS OF GAS PER DAY.
- The Solar Array will power the lights in the three structured parking garages on which the panels are mounted. TECHNICALLY, THE POWER GENERATED IS ROUTED DIRECTLY BACK TO THE XCEL ENERGY GRID AND XCEL SELLS IT BACK TO THE BELMAR PROJECT AT A SLIGHTLY REDUCED COST.
- Here's how it works:
  - The Solar Panels mounted on top of three Belmar parking structures collect the sun's rays. IN TERMS OF RENEWABLE ENERGY, COLORADO IS THE PERFECT PLACE FOR SOLAR ENERGY GENERATION DUE TO THE FACT THAT IT IS SUNNY 300+ DAYS A YEAR.
  - The energy then runs through an inverter, where it is converted from DC voltage to AC voltage so it can be sent to the main Xcel Energy grid. THE POWER GENERATED BY THE BELMAR SOLAR ARRAY IS SENT DIRECTLY TO THE MAIN XCEL ENERGY GRID.
  - Xcel then sells the electricity needed to power the garages back to the Belmar Project. IN ACCORDANCE WITH AMENDMENT 37, XCEL IS REQUIRED TO DERIVE 20% OF ITS ENERGY FROM RENEWABLE SOURCES BY 2015. BECAUSE BELMAR IS PARTICIPATING IN THIS PROGRAM TO CREATE RENEWABLE ENERGY SOURCES, THE ENERGY XCEL SELLS BACK TO THE PROJECT WILL BE SLIGHTLY UNDER THE MARKET RATE BUT MORE IMPORTANTLY, GOOD FOR OUR ENVIRONMENT!