# Victor Valley College District Sustainability Program



The District leadership made a resource and financial commitment in 2010 to create a comprehensive sustainability program to reduce its dependency on utilities and reduce future expenditures.

#### Overview

- One Megawatt CPV
- 250 kW solar covered parking at VVC new Lead Gold Fire training/A.J./E.M.T. Facility
- Two new solar covered parking structures -200 kW each
- Campus Lighting Retrofit
- Campus Energy management upgrade
- Boiler replacements
- Sustainable landscaping project
- All new construction required to participate in S.C.E. savings by design
- Plug load occupancy sensor and power management software installation

### One Megawatt CPV

- The VVC Power plant is a 1 MW-AC plant
  occupying 6 acres
  - 122 ground mounted CPV arrays
  - Produces approximately 2.6 million Kilowatthours annually
- Roughly 30% of the college's energy requirements















## Sustainable Landscaping





### Sustainable Landscaping

- The new landscape removes 26,367 sq. ft. of non functional turf which saves money!
- Removing the turf saves 865,634 gallons of water a year. Every 1,000 square feet of turf uses 32,832 gallons of water per year.
- The District received a rebate for turf removal by the local Water District.
- This project will be the first step in a "Strategic Partnership" with the Mojave Water District for improvements to the campus that reduces water useage.
- The new landscape design requires substantially less labor to maintain.
- This project eliminates the use of harmful chemical fertilizer and herbicides required by the existing turf areas.
- Landscape green waste will be reduced as a result of the new landscape design thereby reducing waste to the landfill.



#### **Program Results**

- Reduced utility expenditures by \$600,000 annually that can be applied to Instruction
- Create Green jobs and educational opportunities for students
- Reduction in Greenhouse gas and other pollutants
- Reduced dependency on the utilities by lowering the overall demand

# Thank You