

# CVSR PROJECT BENEFITS FACT SHEET

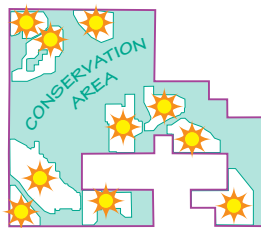
## REFERENCES



**AVOIDED GHG EMISSIONS:**  
**255,000 TO 333,000 METRIC TONS/YEAR**



**AVOIDED POWER PLANT EMISSIONS:**  
**NO<sub>x</sub> – TO 270,000 LBS/YR**  
**SO<sub>2</sub> – TO 14,000 LBS/YR**



**BIOLOGICAL CONSERVATION:**

- **6,000 AC. PROTECTED FOR SPECIES**
- **CA VALLEY CONSERVATION: \$500K**
- **10 MILES OF FENCE REMOVED**



**POLICY GOALS:**

- **CA RENEWABLES PORTFOLIO STD**
- **SLO CONSERVATION AND OPEN SPACE ELEMENT**
- **SLO COUNTY CLIMATE ACTION PLAN**



**ECONOMIC BENEFITS:**  
**CONSTRUCTION & OPERATIONS \$10 MILLION IN TAX REVENUES;**  
**\$315M TOTAL ECONOMIC BENEFIT**  
**350 CONSTRUCTION JOBS**



**COMMUNITY BENEFITS:**

- **271,000-GAL WATER TANK AVAILABLE FOR FIREFIGHTING**
- **RECLAIMED GYPSUM MINES**
- **COMMUNITY ENERGY EDUCATION**
- **HIKING TRAIL & OVERLOOK**

Solar power displaces power produced by burning carbon-based fuels in conventional power plants. The CVSR will produce about 679,000 megawatt hours annually. Greenhouse gas emissions would be reduced by up to 333,558 metric tons of CO<sub>2</sub> equivalents per year with a total reduction of up to 8,339,000 MTCO<sub>2</sub>e.

- The Energy Payback Time to offset emissions from construction of CVSR is estimated at 1.4 years.
- It is estimated that the following emissions would be emitted from an equivalent-sized fossil-fueled power plant:

The CVSR will offset project impacts and enhance and conserve additional species habitat. It will provide for:

- Additional offsite conservation through funding to acquire and consolidate small lots to promote permanent habitat connectivity;

California's Renewables Portfolio Standard requires a 20% renewable energy delivery by 2010. The state has established a further goal of reaching a 33 percent renewables by 2020. SLO County Climate Action Plan encourages development of renewables. Construction of the CVSR Project will establish San Luis Obispo County as a leader in energy conservation and GHG

The CVSR Project will benefit the local economy directly through additional jobs and revenue from sales and property taxes. Indirect economic benefits will result from project spending in the local supply chain, and induced economic benefits from employee spending.

**Tax revenues estimated at \$10,000,000.**

The CVSR will:

- Improve fire safety by making a 271,000-gallon water tank available to CalFire for off-site fire fighting
- Reclaim two idle on-site gypsum mines and improve site drainage
- Provide a hiking trail and Sunrise Overlook to increase local recreational opportunities

"Real world" emissions equivalent\* to:

	Annual	Lifetime
<b>Cars on the road</b>	49,000	1,225,000
<b>Gallons of gasoline</b>	28,750,000	718,750,000
<b>BBQ propane cylinders</b>	10,650,000	266,250,000
<b>Railcars of coal</b>	1,300	32,500

\* – conservative estimate: EPA methodology yields higher results

	NO <sub>x</sub> (lbs/yr)	SO <sub>2</sub> (lbs/yr)
<b>Natural Gas</b>	47,500 to 270,000	7,000 to 14,000
<b>Coal</b>	2,650,000	815,000

- Mitigation by conservation of land at a ratio of 4:1 for protection of the giant kangaroo rat and the San Joaquin kit fox, yielding benefits to a wide range of common wildlife and species of special concern; and,
- Fence removal to improve large animal movement.

reduction. It will advance the County's efforts to reduce GHG and increase use of renewable energy. It will contribute to an environmentally sustainable supply of energy. It will also encourage and support the development of solar power as a commercial energy enterprise.

Economic Activity	Salaries	Economic Output
<b>Project Development</b>	\$103,000,000	\$170,000,000
<b>Local Supply Chain</b>	\$15,000,000	\$67,000,000
<b>Employee Spending</b>	\$18,000,000	\$78,000,000
<b>Total Economic Benefit</b>	<b>\$136,000,000</b>	<b>\$315,000,000</b>

- Commit \$150,000 for solar and renewable energy education in the California Valley.

U.S. EPA 2011a. *Green Power Equivalency Calculator Website* – <http://www.epa.gov/greenpower/pubs/calculator.htm>.

U.S. EPA 2011b. *Greenhouse Gas Equivalencies Calculator Website* – <http://www.epa.gov/cleanenergy/energy-resources/calculator.html>. (see Attachment 1)

Emission factors from Appendix D of the CARB's *Proposed Regulation for a California Renewable Electricity Standard - Staff Report: Initial Statement of Reasons* (CARB 2010).

(see Attachment 2)

*California Valley Land Acquisition Program* is MM BR-34.1. Fence removal is MM BR-31.1. Additional conservation for protection of common wildlife and species of special concern is in BR-1.4, BR-16.2, and BR-22.2. (see Attachment 3)

*California Senate Bill 1078 Executive Order S-14-08, and San Luis Obispo County General Plan Conservation and Open Space Element (COSE). SLO Climate Action Plan.* (see Attachment 4)

*"Economic Impact to San Luis Obispo County of the California Valley Solar Ranch"; prepared by Stephen F. Hamilton, Professor and Chair of Economics, Orfalea College of Business, California Polytechnic State University; and Darin Smith & Tapa Banda, Economic & Planning Systems, Inc.; December 13, 2010.* (see Attachment 5)

County of San Luis Obispo, Department of Planning and Building. *"Final Environmental Impact Report, California Valley Solar Ranch, Conditional Use Permit (DRC2008-00097) and Twisselman Conditional Use Permit / Reclamation Plan (DRC2009-00004),"* State Clearinghouse No. 2009021009. January 2011. Ongoing discussions regarding conditions of approval. (see Attachment 6)