## greentechsolar:

You can call it another loan-guarantee success story: One of the world's biggest solar PV plants is now fully operational in California.



Earthtechling, Pete Danko November 5, 2013

It's official. The loan-guarantee-backed, 250-megawatt California Valley Solar Ranch in San Luis Obispo County, Calif. is fully commissioned and operating at a whopping capacity of 250 megawatts, making it one of the biggest PV plants in the world, according to owner NRG Energy.

By the way, yes, it is a power plant, not a "ranch." It is a large industrial enterprise on the Carrizo Plain, a unique grassland about 50 miles long and 10 to 15 miles wide that is separated from the Central Valley by a line of peaks called the Temblor Range, a bit of central California (it is midway between Silicon Valley and Los Angeles) that is rarely visited, home to the endangered San Joaquin kit fox and giant kangaroo rats.

And yet environmental groups such as the Sierra Club, Defenders of Wildlife and Center for Biological Diversity seem to feel pretty good about this clean-energy development, all things considered, having worked to gain concessions on the project (and another big project on the plain, called Topaz). To win government approval, the developers had first "agreed to significant commitments to protect and preserve species," the groups said, and then with the private settlement came "additional environmental benefits":

More than 9,000 acres will be added to the 17,000 acres of land required to be permanently protected and preserved under the permits, resulting in a total of approximately 26,000 acres, or about 40 square miles, of the Carrizo Plain receiving protection as a result of these projects.

30 miles of fencing will be removed from the area, allowing for greater wildlife movement around the projects. Additional beneficial enhancements will be made to the wildlifefriendly fencing around the solar system arrays. No rodenticides will be used in the construction or operation of the projects, and the solar companies will help fund efforts to eliminate rodenticides on the Carrizo Plain and in other San Joaquin kit fox conservation areas.

Topaz and SunPower will make additional significant financial contributions to help San Luis Obispo County acquire lots in the largely undeveloped subdivision in the Carrizo Plain to restore for wildlife conservation.

California Valley Solar Ranch actually consists of a number of fairly distinct arrays of SunPower panels -- ten, to be exact. So while the entire site is 4,700 acres, less than a third of it, 1,500 acres, is covered in panels or

NRG hit the environmental point hard in its press release announcing that the project had powered all the way up (it began producing its first electricity more than a year ago).

buildings. NRG counts the remaining 3,200 acres as "permanently conserved and managed to meet conservation objectives for a range of

species."

"Beyond offsetting carbon emissions and offering clean energy from one of the world's largest solar facilities, this project's design takes a leap forward by integrating the surrounding environment in a sustainable manner," Randy Hickok, senior vice president of NRG Solar, said in a statement. "In addition to its nine solar photovoltaic arrays, CVSR includes a water recycling plant that minimizes annual water use and a plan for protecting and conserving more than 12,000 acres of land in and around the facility."

Big as California Valley Solar Ranch is, it will soon be dwarfed by other California plants: the 550-megawatt Topaz and the 579-megawatt Antelope Valley Solar Projects, sited about an hour north of Los Angeles, are both under construction