

**CALIFORNIA ENERGY COMMISSION
Agricultural Peak Load Reduction Program**

**Wastewater Pond Aerator Retrofit
Franciscan Winery Project Summary**

Project Description:

The Franciscan Winery, located in St. Helena, California, retrofitted solar-powered aerators to two wastewater treatment ponds. One of the units replaced a 25 horsepower aerator, and the other replaced a 7.5 horsepower unit. As before, these aerators operate 24 hours per day, 7 days a week. During nighttime operation, 110 V electricity is provided to the solar units.



Primary effluent pond with electric and solar-powered aerators

Project Results:

This facility has multiple loads on one service meter. Verification is by continuous data logging of the existing electric-powered aerators for operation times.

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| Total Project Cost | \$51,124 |
| Total Grant Award | \$6,735 |
| Contracted kW Load Reduction | 26.93 |

Contact Information:

Chase Cambron
Telephone: 707.967.2149
Fax: 707.967.7867