

## The Inman Family Winery Project: The Embodiment of Eco-Ethics

3900 Piner Road, Santa Rosa, CA

**Maintaining Farming Architectural Heritage of the Site:** The Inman Family Winery is located at the organically farmed Olivet Grange Vineyard. The new winery occupies the same footprint as the old redwood barn which was on the property when purchased from the family which had owned it for the previous 116 years. This redwood was saved and was used on the interior of the winery.

**Recycled Steel:** The building was engineered to use the minimum amount of steel required and the lighter steel structure means reduced footings and foundations, which reduce the concrete used. Nearly all of the steel used to make the primary frame of the building is from post consumer and post industrial recycled materials (old automobiles turned to new buildings!) To further reduce the carbon footprint, the building was fabricated in California, reducing transportation energy costs.

**Recycled Aggregates:** The aggregates used in the foundation, for the carpark base and in the concrete in some areas are 100% recycled and in others contain some recycled materials.

**Paint Finishes:** Paint on the exterior as well as caulks and adhesives are all low VOC. Interior paints were zero-VOC.

**Energy Efficient:** The wall and ceiling sandwich panels have very high insulation values: R-30 for the walls and the “cool roof” is R-38. Further energy saving is made with argon-filled “Low E” windows. High insulation levels combined with night air cooling eliminate air conditioning requirements in the winery. LED and CF lights will use a fraction of the energy of standard lights.

**Solar Power:** Our building’s solar system provides 100% of our current energy requirement. Forklifts, appliances and other systems are all electric to ensure we use the greenest power possible.

**Heat-Island Effect:** The combination of the “cool” metal roofs and the use of light colored decomposed granite rather than black tarmac reduce the heat-island effect, minimizing the impact buildings have on microclimate and human and wildlife habitat.

**Waste Water Recycling:** All winery gray water is recycled via a biomass reactor stored for reuse in the vineyard.

**Toilets and sinks:** Extremely low water use ADA compliant toilets from Toto are installed. The faucets are also water savers and all confirm to the lead free requirements for CA.

**Post Consumer Recycled Materials:** Besides the building frame, the flooring and countertops will be made from various recycled materials: cork, rubber, concrete, pottery and glass (including a tasting bar made from used wine bottles from the SF Bay Area). Local manufacturers were our preferred suppliers.

**Electric Vehicle Charging Station:** Inman Family was the first small business to install a public EV charge point in Sonoma County. Guests of the winery are able to charge their electrical vehicle from our solar power (filling up on sunshine) while having a tour of our organic vineyard and gardens or tasting the fruits of our labors.

