



HILLIARD BRUCE WINERY



- **Certified LEED Silver**
- **11,750 square foot facility in Lompoc, CA**
- **5,000 case winery and tasting room**
- **Energy, water and resource efficient**

This stunning facility houses production, barrel rooms, an administrative office/lab, and event space. It has used the natural topography of the site as an advantage in many aspects of the design. First, by setting the barrel storage room into the hillside on the ground floor, combined with an energy-efficient insulated concrete forms, high thermal performance has been achieved. In addition, the loading bay, crush pad and fermentation areas are located at the upper level, making it possible to bring grapes into the working areas on grade and use an energy-efficient gravity fed process for movement of the wine from fermentation above to storage below. Water efficiency strategies were employed both for indoor and outdoor use, including process water reuse, drought tolerant plants and stormwater infiltration.





PHOTOS: JEREMY BALL, BOTTLE BRANDING

Water

- A 32% reduction in indoor water use has been achieved through low-flow fixtures.
- The landscape utilizes permeable pavers, bioswales and basins to efficiently filter and infiltrate stormwater, which reduces runoff and recharges groundwater.
- Water-efficient plants and trees have been used throughout the landscape, reducing outdoor water use by 55%.
- Water used for processing is recycled and used for adjacent field irrigation.

Energy

- The building uses 41% less energy compared to similar buildings.
- Balanced daylighting in all spaces has been created with windows and suntubes.
- LED lighting has been installed throughout the building.
- Night venting and subterranean construction provide passive thermal cooling.
- A gravity-fed system is used for grape processing, thereby reducing the use of pumps.
- A 10kW photovoltaic system provides 28% of energy usage.
- 35% of the electricity used annually is purchased from renewable energy sources such as wind and solar.

Site

- The site design provided vegetated open space for 52% of the project site.

Project Team

- **Val Milosevic, Architect**
- **Tom Davidson, Project Manager**
- **Rarig Construction, Contractor**
- **In Balance Green Consulting, LEED Consulting and Energy Modeling**

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