

ECODESIGN OF WINE CELLAR

The construction of a viticultural building or wine cellar and the choice of equipment associated with the design of facilities imply in-depth reflection, particularly with regard to the economic and qualitative aspects as well as the safety of those using the equipment. Apart from practical features, sustainable development must be considered, taking into account energy use and water management in particular.

These aspects, together with landscape integration, contribute to promoting the cellar's environmental image. It is possible to incorporate an original and pioneering approach beyond architectural choices in communications and wine promotion measures.

ENERGY COMPONENT

Energy Production

Solar energy

- ◆ It can be used directly to produce heat at different temperature levels for various uses,
- ◆ Or electricity can be produced directly by the photovoltaic conversion of solar energy.



Photovoltaic panels - Cooperative wine cellar, Côteaux du Pic in Pic Saint-Loup



Photo IFV - Geothermal energy

Geothermal energy

- ◆ Subsoil heat is used, most commonly via the intermediary of a water circulation system,
- ◆ However, potential sites of this type are abundant and, it will eventually be possible to shift the production zone deeper to continue exploitation.

Energy Saving

Ecological insulation

- ◆ Made from materials which satisfy both the usual technical criteria for construction and environmental criteria for their entire life cycle,
- ◆ Ecological insulation can be from animal, vegetable or mineral sources.

Green walls

- ◆ The plants reduce overall temperatures of the building which in turn reduces energy consumption,
- ◆ For living walls there are many methods including attaching to the air return of the building to help with air filtration.



Photo IFV - Inner yard of Château des Hospitaliers

WATER MANAGEMENT

Constructed wetland

Constructed wetlands are engineered systems designed to simulate the water quality improvement functions of natural wetlands to treat and contain surface water runoff pollutants and decrease loadings to surface waters.

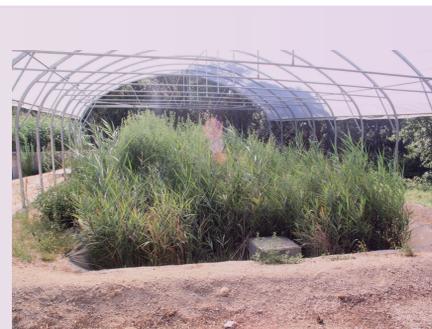


Photo IFV - Constructed wetland of domaine Mont-Redon