

- Category: Reorganization of historical buildings in rural ground
- Case History: Farm holiday reorganization and other cases

● ● ● **ITALY**
Province of Savona



Project cofinanced by



Lead Partner



● **Category** Reorganization of historical buildings in rural ground
● **Caso Studio** Farm holiday reorganization and other cases



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 Date 2009



Building and equipment house built into the terraces. In the thermal power plant: wood-fired boiler and storage tank. On the green roof: solar panels (mq 8)

● ● ● **Context**

The renovated building is located within the rural park of centroAnidra, in Borzonasca (Ge), to mt.500 a.s.l., terraced along a hillside among orchards, gardens and forests.

The landscape is characterized by the presence of small groups of medieval origin and isolated rural buildings, used for the treatment of agricultural land and pastures.

This work is part of a larger recovery of an area of 15 hectares, through interventions characterized by a high degree of environmental and landscape in one holistic wellness centre.

● ● ● **Descrizione intervento**

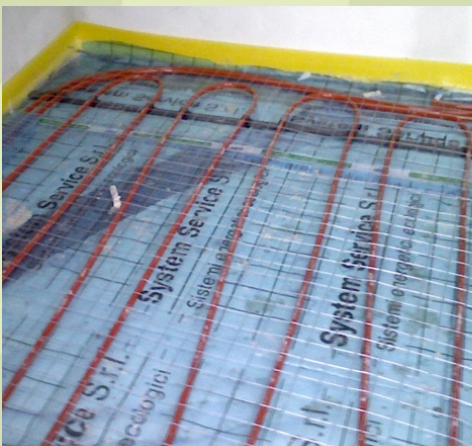
The building work includes the main building (a little house and three bedrooms with bathroom) and one contiguous utility house (tot. mq 180).

The building was reconstructed with the use of materials and technologies compatible with local building traditions.

The long axis of the building is oriented north - south. The building type is "chair form" typical of the Ligurian hillside, with the building located on both sides of a terrace. The northern front is protected by the hill, facing south, historically used as a dwelling, presents the most important windows, thus interpreting, optimally in terms of microclimate, local conditions. The external image was bound by existing building and landscape regulations.

It was decided therefore, to place the building elements and plant in an independent and integrated building in the terraces.

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It has taken the innovative features and technology to save energy, starting from the choice of plants.

Considering the availability of firewood from the forest stand, it was decided to use a biomass plant with integrated solar panels for domestic water and radiant floor heating.

As regards the production of electricity instead, is an ongoing project for the construction of a plant, derived minihydro restoring the creek, a canal that runs through the property with a jump of about 100 meters final installment.

The types of construction and the materials used are: chestnut floors, brick walls and stone mantle with slate, wood fiber insulation boards, plasters, wood fixtures, low-emissivity glasses, use smaller vessels in the external system and on panels buffer.

The resin floors give the opportunity to differentiate the different environmental units through choices in color and shape.

In the space of the mini house, interior volumes are inserted into a single continuous allows good natural ventilation inside.

Outside there is recovered from an old artisan technique of execution of infill willow, used here in the balustrade of the terrace and usable panels elsewhere in interior partitions or brise soleil.

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Genova Pegli: integrated photovoltaic tiles in the mantle slate - project arch. P.Rissotto



Ruta di Camogli: rooftop photovoltaic system in rural house - project arch. A. Natale



In other cases made in rural areas, in Genoa Pegli (Farm Board) and Ruta di Camogli (private home), we observe interesting applications of the use of photovoltaic systems integrated into the surfaces of roofs. Particularly effective integration into traditional roofing slate is given by the use of thin-film photovoltaic tiles.

● ● ● Evaluation

The small rural buildings are being broadcast across interventions, for the manifestation of a renewed interest in the recovery of rural areas.

Experiences are presented in the items of interest:

- integration of the plant with the construction aspects of the search for a comprehensive environmental sustainability
- the use of local materials and its historic landscape
- the use of elements integrated in the plant construction elements (in If the shell) or in the accommodation of soil present (terraced bands)
- careful to limit the additional costs
- repeatable and easy to implement

● ● ● Potential for transferability

General criteria:

- recovery of building systems that characterize the local landscape and climate in buildings with good behavior
- choice of systems based on the best yields and the ability to find the material on site (eg biomass)
- use of innovative integrated historic building (photovoltaic tiles, resin floors, etc ...)

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Using the wood: chesnut floors, wood fiber insulation
board mineralized, willow railing



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