



A new way
of living

casa  iva

www.energeen.com



Energeen, a leader in the renewable energy sector, has focused its considerable technical resources and technological know-how in a new way of designing and constructing buildings, as a result of the events that occurred in Abruzzo in 2009, from which it has been directly affected.

Setting all the preconceptions, Energeen has developed brand new and original technical solutions to achieve the best in seismic safety and energy performance, starting from its own needs and in a completely new and modern way.

The architectural and structural design, integrated with the most advanced plant system available, has allowed us to obtain building performances unattainable with traditional building techniques, using only internal human resources (engineers, technicians and building site personnel).



Sharing a maximum of Henry Ford:

“There is real progress only when the benefits of a new technology become for everyone”

Energeen has industrialized technologies used in the prototypes realized for its own needs, proposing itself on the market with a revolutionary product:



in addition to the technological features of absolute reference in terms of safety and well-being, our Casaviva is to become the new reference in the residential sector even from an economic point of view.

Well aware of the strength and reliability of its products, Energeen, the only one in the market, offers its Casaviva as a unique technological apparatus whose clients know from the start:

Price - Performance - Consumption – Guarantees

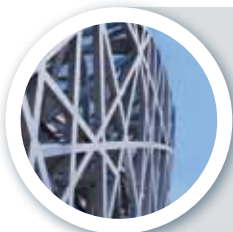
In addition, Energeen also proposes a package of “maintenances” (coupons) programmed at set times and certain costs. Business organization and technologies used allow Energeen to stand for the entire life of the property as single point of contact with regard to maintenance repairs and adjustments (the handle of the door, the dripping tap, the light bulb that does not work) with quick times of operation and certain tariffs.

Innovative materials



Wood is a natural resource with characteristics of efficiency and ductility not common to any other material.

The experience of living in a wooden building means enjoying an environment whose high energy performances offer wellness and cost management.



The constructive and expressive possibilities given from

steel are virtually endless

These are high-speed construction solutions, which are able to customize the image of a company and to make a building unique, with its own characterizing way of construction.

In addition, the reliability of controls, the speed of construction and the reduced labor required for it, allow a rapid return on investments by reducing any financial costs.

Of no less importance is the behavior of steel structures in the event of seismic activity, in fact, the achievements of steel to date, are the most secure in the event of an earthquake.



The X-Lam technology

Cross-Laminated Timber



The characteristics of antiseismicity and fireproof safety of X-lam structures, have been tested and certified by many documented experiments and available for viewing online both on "wikipedia" and on "youtube".

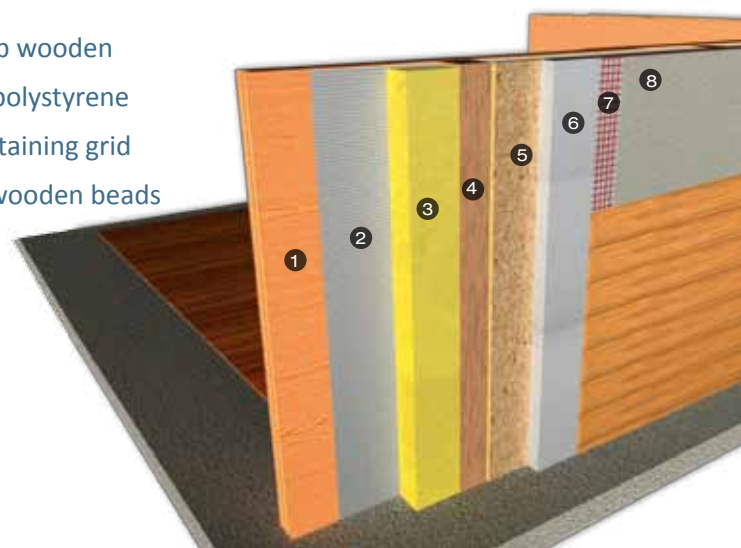
The X-Lam construction system is composed of panels of softwood (pine, fir, etc.), cut according to the phases of the moon in order to not alter the balance of the natural forests, assembled cross-laminated in the absence of formaldehyde and treated on dryers that balance the percentage of wood moisture in order to achieve maximum efficiency and structural strength to withstand earthquakes.

Thanks to this production process this material is capable to obtain a result of absolute resistance to mechanical stress such as to permit its use for garrets, walls, roofs, floors, both in the field of housing and offices, warehouses, manufacturing facilities, commercial activities, extensions, etc, etc

Wall sections



- 1 X-Lam wooden panel
- 2 Vapor control
- 3 Thermal and acoustic insulation
- 4 Mural in fir
- 5 Panel in osb wooden
- 6 Expanded polystyrene
- 7 Plaster containing grid
- 8 Plaster or wooden beads

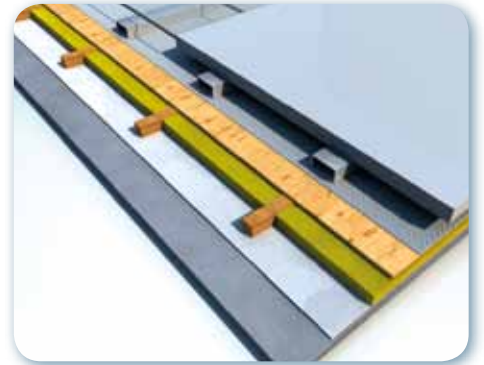
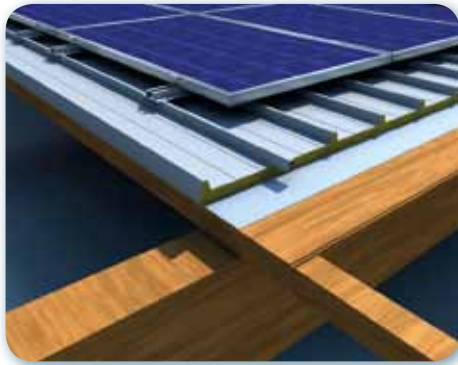
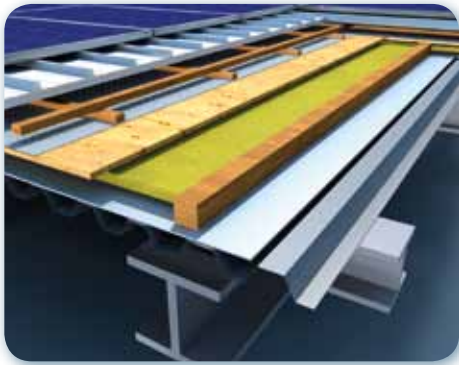


Covers

Each construction system in Energeen is created with the aim of reaching the achievement of thermal health and noise requirements. For this reason every technical solution must be realized ad hoc according to the climatic conditions and the specific use of each building.

Energeen uses wooden and steel and the best selection of insulation materials for isolation.

We make covers with total integration of solar thermal and photovoltaic.



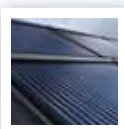
Integrated technologies

All our homes are designed for a sustainable future: not only new materials but the integration of all currently available technologies, in an energy-saving and environmental sustainability.

Energeen cares, from planning, to implementation and maintenance, for all his accomplishments, regarding:



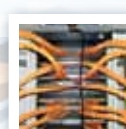
Photovoltaic Systems



Solar thermal systems



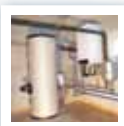
Electrical installations



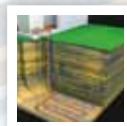
LANS



Hidraulic Systems



Heat pumps



Geothermal



Alarm and Video monitoring



Air conditioning



Home Automation



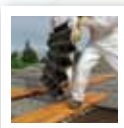
Telephonic systems



Power plants with MV / LV



Thermographic analysis



Asbestos removal



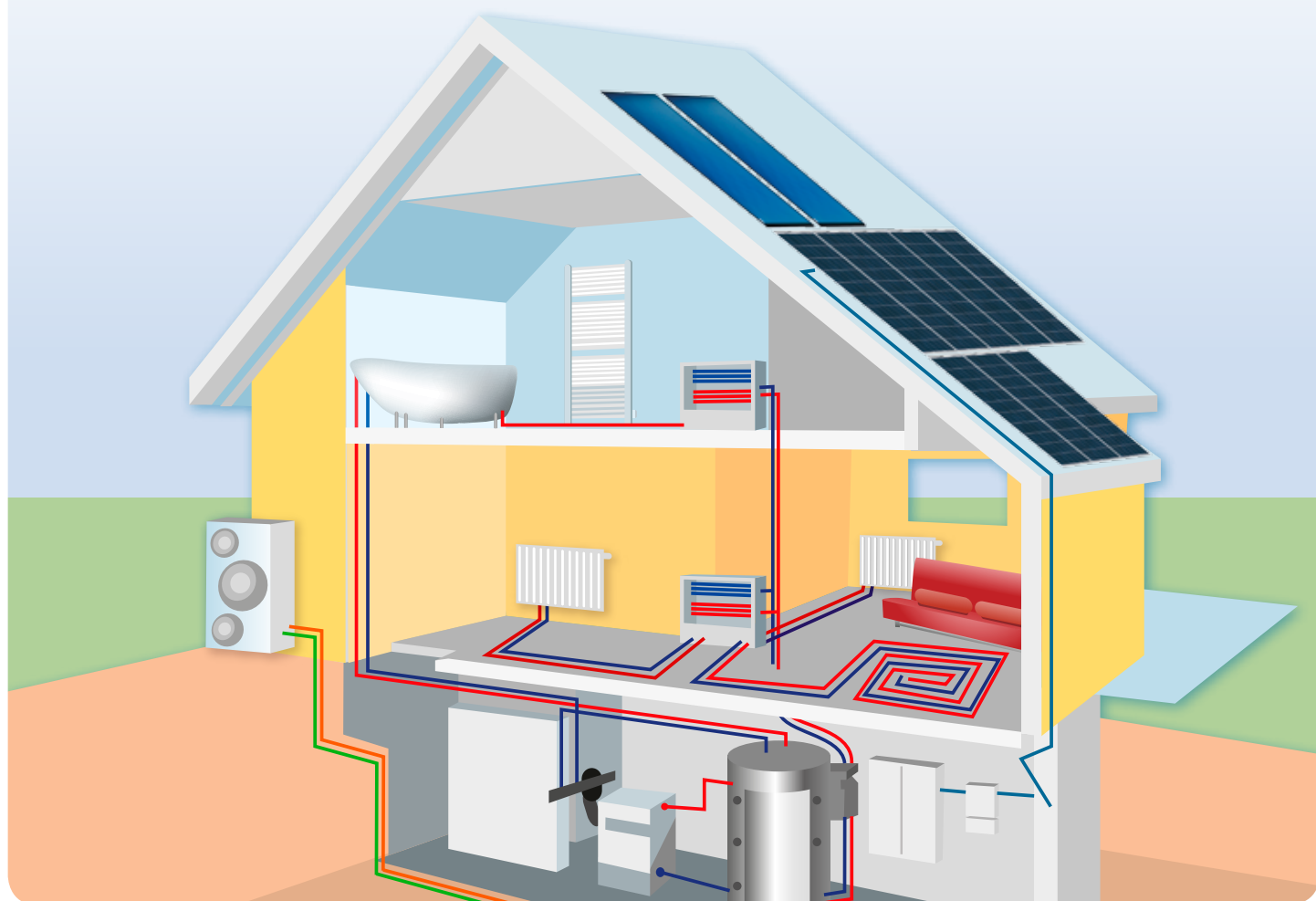
Energy certification

Energy self-sufficiency

Our homes are designed to capture from the natural elements (sun, water, earth and air) all the requirements for living, and this is possible thanks the use of modern technologies.

The optimal orientation allows to maximize the use of photovoltaic panels and solar thermal systems, the materials used insulate against heat and cold, but the real added value of the building is the logic design in order to optimize the energy produced.

Through the use of “fan coil unit” (fans) and induction cooker, electrical energy using devices that provide heating, air conditioning and heat for cooking, and solar thermal systems for hot water, our homes are totally self-sufficient and does not need to be connected to the public gas network.





A photovoltaic system is a system of modular elements which is totally adaptable to the needs of any kind of user, from family to industry.

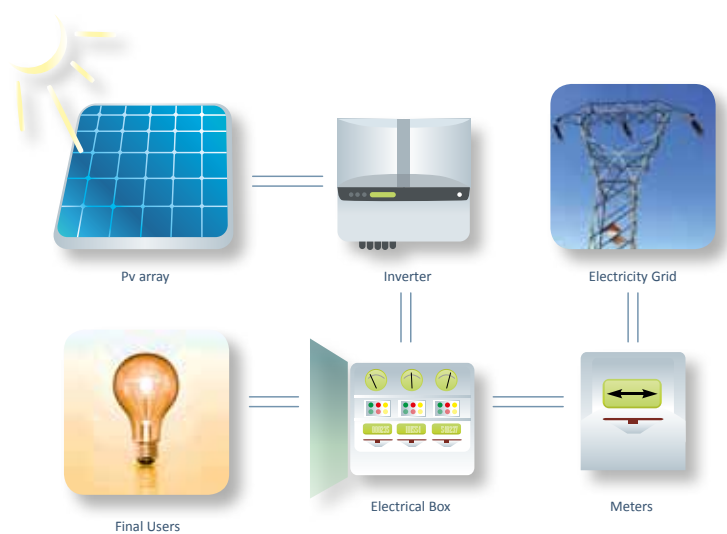
The photovoltaic systems offers a wide range of advantages, first of all the great profitability along with low maintenance costs and a technical life of about 30/40 years, but, above all, it grants the possibility of producing electricity without cost and with zero emissions.



Government incentives
for photovoltaic system

The State recognizes companies and individuals who have made a photovoltaic system a real incentive for the production of electricity. In addition to government incentives, other revenues are represented by the direct use of energy produced and by the sale of production in excess of the direct use.

System diagram





A solar thermal system produces thermal energy collected in the form of hot water using solar energy and without any harmful entry into the atmosphere.

It can be used for domestic hot water and space heating, or in industry, in manufacturing plants of the food sector, in wellness centers and spas, in facilities, in gyms and sports centers.

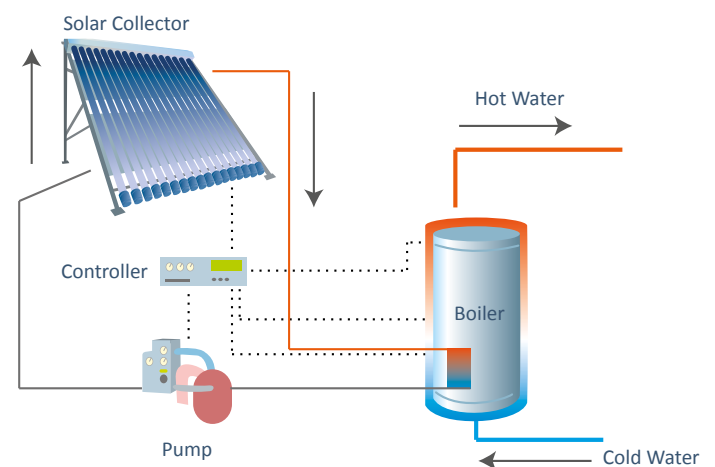


Government incentives

for solar thermal systems

The government incentive plan for solar thermal system provides a tax deduction of 55% up to a maximum of € 60,000.00 in ten years under income tax return. This deduction cannot be combined with any incentives provided by the European Union, Regions and local bodies. The customer must then choose whether to take advantage of the government deduction or incentives provided by European Union, regional or local bodies.

System diagram



Thermal energy CLEAN ENERGY

Heat pumps air / water, air / air and geothermal

An efficient heat source is naturally present in the atmosphere and soil: this system, ecological and silent, extracts heat from natural elements even at temperatures well below zero degrees.

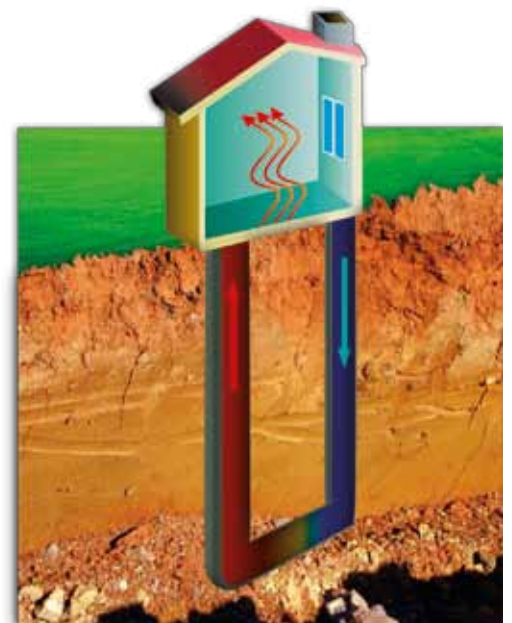
The heat pumps produce hot water for sanitary and heating systems, and they represent a very efficient source of heating or cooling indoors. The principle on which they are based is to move thermal energy, not to create it.

The heat pumps, despite requiring electricity, contribute to the conservation of the primary sources and therefore are to be considered, in all respects, a form of renewable energy.



Government incentives for heat pumps and geothermal

Replacing a traditional heating system with heat pumps and geothermal, in addition to the aforementioned advantages in terms of energy saving and conservation of natural resources, is entitled to a preferential tax regime with a tax deduction of 55% on the income tax return .





Sustainable living space

Here we propose various types of integrated solutions for energy savings, each of these can be applied both in new buildings as in existing ones, or in situations of partial or total renovation / expansion.



- Replacement of the thermal plant

Replacing a conventional boiler with a geothermal pump allows the use of geothermal energy for heating and summer cooling, while maintaining the use of heating systems already in place, with considerable energy savings.



- Heating, cooling and hot water

In case of new constructions or renovations, it is possible to configure the system in order to offer maximum comfort and energy savings.

A single heat pump is able to replace three different conventional systems, boiler for heating, air conditioner and water heater during summer months, electric or gas water heater for the production of hot water.



- Geothermal / heat pump system integrated with solar thermal

To further reduce consumptions of the system, the geothermal heat pump can be integrated with a solar thermal system. The pump, with the use of solar energy, will limit the action of the compressor.



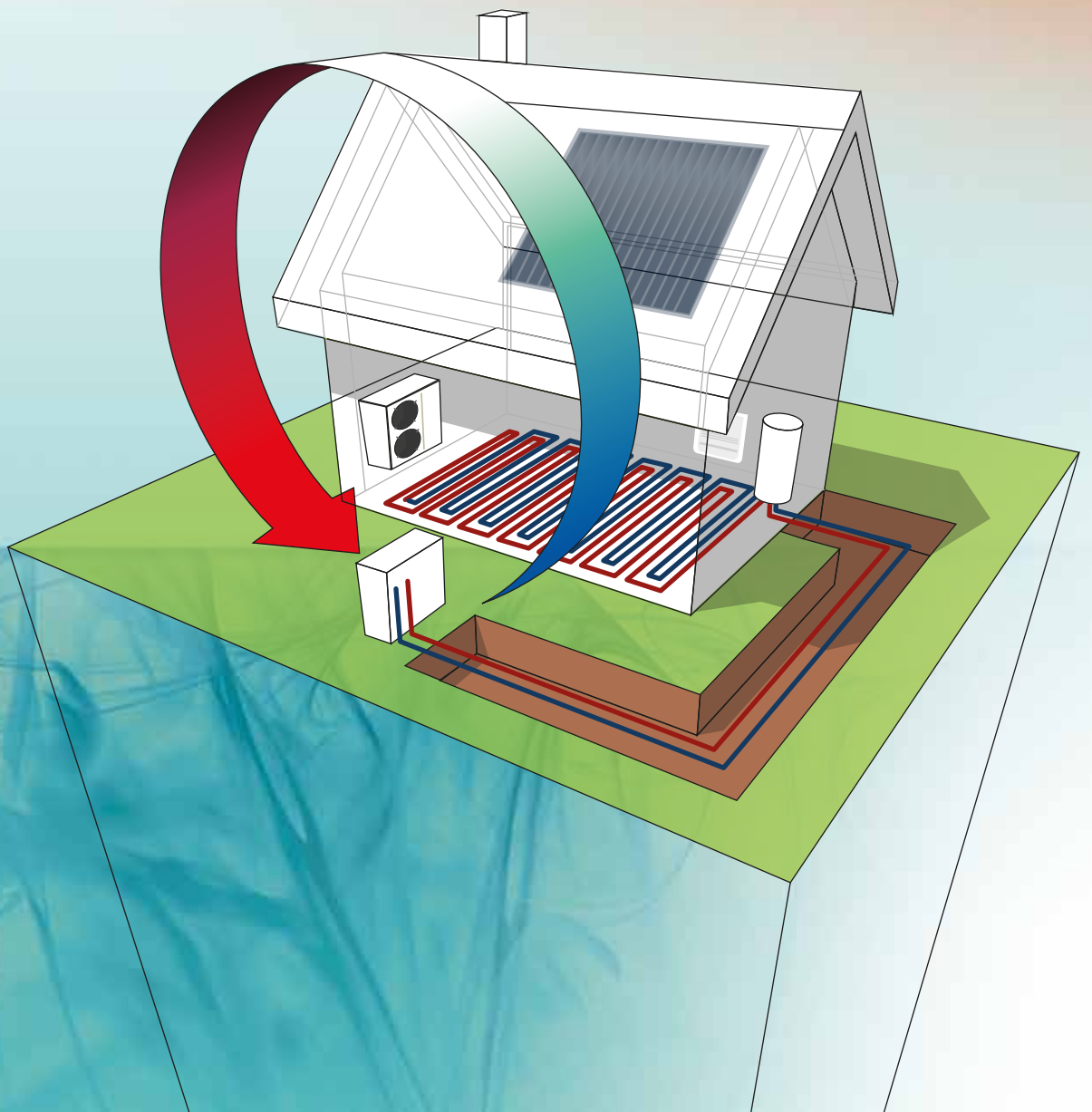
- Geothermal / heat pump system with integrated photovoltaic

By integrating a PV system to a geothermal heat pump one, there will be a reduction or even a flyback of power consumption necessary for its operation, with huge savings in terms of costs and emissions, to the complete self-sufficiency of the plant.



Geothermal / heat pump system with integration of photovoltaic and solar thermal

The most complete solution. It allows the maximum living comfort, with infinite advantages in terms of operating and maintenance costs, creating an energy self-sufficiency condition, without emissions



Our offer for the home

also includes masonry, painting, interior finishes, drywall, ceilings, sanitarries mounting, floors and walls.



Energeen designs and manufactures

residential, industrial and commercial constructions - production facilities - facades – hovels - sloped or curved roofs - greenhouses – shelters – station roofs - modular coverings with fully integrated photovoltaic system

interventions that integrate with existing conventional architectures or “turnkey” planned with the aim of achieving maximum results in terms of brightness, aeration and aesthetics. Energeen is also a qualified partner for restructuring, concrete restoration, reclamation and disposal of asbestos.



Energy certification

ENERGEEN company is accredited to issue the Energy Certification of Buildings, which is vital for the sale or lease of properties and for access to the system of tax deductions on income.

work in progress

Some of our projects under construction



project for the creation of
businesses and offices





project for the construction
of residential unit



project for the construction of
a village of 14 family homes at
high energy efficiency.





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