

Domanda n. 1

Leggere e tradurre il seguente brano in lingua inglese.

There are many advantages to using a photovoltaic system; the main ones are listed below:

- Respect for the environment: it eliminates pollution and associated greenhouse gas emissions during the energy production cycle
- Modularity: the possibility to modify the system's power output at any time by simply varying the number of modules
- Independence: ability to self-produce part of the energy consumed when the sun is shining. Furthermore, those who choose to incorporate batteries into the system can store the surplus energy produced for subsequent use when required.

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If the building upon which the system is to be installed is not situated within an area subject to planning restrictions (environmental, historical, artistic, landscape, etc.), then, in accordance with the specific requirements of the local municipal urban planning regulations, the photovoltaic system can be installed without a specific authorisation.

If, on the other hand, the property is located in an area subject to planning restrictions, an ordinary or simplified authorisation must be requested, as in the case of other building interventions.

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Photovoltaic system modules can be installed on a building's roof, its façade or on the ground. During the initial survey, the installer will check the feasibility, taking into account:

- the available space required for the installation of the modules (for every 1,000 W of installed power, about 3-4 photovoltaic modules are necessary)
- the correct exposure and incline of the surface, which must be facing southwards, southeast or southwest. The incline should be between 10° and 35°
- the absence of any obstacles that could create shade.

Domanda n. 4

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Energy efficiency is the use of less energy to perform the same task or produce the same result. Energy-efficient homes and buildings use less energy to heat, cool, and run appliances and electronics, and energy-efficient manufacturing facilities use less energy to produce goods.

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Energy efficiency is one of the easiest and most cost-effective ways to combat climate change, reduce energy costs for consumers, and improve the competitiveness of national businesses. Energy efficiency is also a vital component in achieving net-zero emissions of carbon dioxide through decarbonization.

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Energy communities dealing with renewable sources currently play a limited role in the European energy system. However, there is an increasing acknowledgement that they will represent an essential tool to involve citizens and foster the energy transition. The recent reform of European energy law recognizes such prominence and introduces new legal concepts with related rights and duties. Member states shall transpose and implement such regulation at the national level. The significant leeway that Member states benefit from suggests that the development of energy communities will be rather heterogeneous in the coming years and differ from country to country.

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Domanda n. 7

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Energy diagnosis is one of the key aspects within an energy efficiency program. It is also the initial step for organizations that want to certify their energy management system.

The Energy Diagnosis includes the following steps:

- analysis of energy supply bill data and reconstruction of actual consumption
- identification and collection of adjustment factors
- identification and calculation of energy performance indices
- collection of information necessary for the creation of the energy inventory
- construction of energy inventories
- calculation of the operational energy performance index and comparison with the target energy performance index
- identification of energy efficiency improvement measures and technical-economic feasibility analysis

Domanda n. 8

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An external thermal insulation system is a layer that insulates the outside cladding of a building to improve thermal efficiency.

The thermal insulation systems keep the temperature of perimeter walls at milder values, thus generating an active thermal mass that improves the thermal inertia of the building. Not only does thermal insulation reduce heat dispersion, it also optimizes the performance of the wall throughout the seasons.

In the summer, by increasing external insulation, the flow of heat that would require intensive use of air conditioning is greatly reduced.

In the winter, the walls that are insulated from the outside cold create thermal exchange almost exclusively with the internal heated space of the building.

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