Low-energy buildings The ultimate goal of research and development is a building that requires no energy or no external energy aid to be the force behind many discussions into low-energy housing and behind a number of demonstration projects in this field.

What is a very low energy building? - ISOVER

Towards very low energy buildings Very low energy buildings are designed to provide a significantly higher standard of energy efficiency. They are often designed without traditional heating systems and without active cooling systems, depending on the depth and strength of the insulation.

Low-energy buildings - Centre for Alternative Technology

To achieve low energy buildings, the main considerations are high standards of insulation & draught-proofing, and low levels of air infiltration. Argon-filled double-glazing with a 'low-e' coating is the most efficient type of pane.

5 ways to future-proof a building

Low energy buildings use a mixture of passive techniques and active systems to deliver a comfortable environment with low energy use and low greenhouse gas emissions. They may also use passive solar heating design techniques or solar water technologies.

Low energy, passive and zero-energy houses – Our energy

Low-energy buildings typically use high levels of insulation, energy efficient windows, low levels of air infiltration and passive solar heat collection. They may also use passive solar heating design techniques or solar water technologies.


The climate-neutral design is deal for dense urban environments (there’s a subway station just across the street) and uses very little energy. The building features solar panels on the roof, while...