

## « What Is Energy Efficiency? »

(Video Transcript)

## What is energy efficiency?

In physics, energy efficiency means the ratio of useful energy produced by a system to the total energy consumed to make it run.

But it also refers to efforts made to reduce the energy consumed by a system while maintaining its final performance at an equivalent level.

In other words: **DOING THE SAME WITH LESS!** 

Example: Energy efficiency for a home means consuming less gas or electricity but enjoying the same level of comfort. There are simple solutions out there:

Double glazing and energy-saving light bulbs. These consume less gas or electricity while providing the same level of comfort.

Example: Energy efficiency for a motor vehicle means being able to cover the same distance while consuming less fuel.

Why is energy efficiency so important?

- Global demand for energy keeps growing STRONGLY.
- It's IMPOSSIBLE to fully meet demand, even by building more power plants.
- It's **DIFFICULT** to make up for the decline in fossil fuels. Coal / Oil / Gas

So, we need to use energy better.

So, we need to use less energy.

That's energy efficiency!

It's especially vital in the manufacturing and building industries, which both consume a lot of energy.

## **Summary:**

Energy efficiency = efforts made to reduce the energy consumed by a system...
... while still maintaining its final performance at an equivalent level.

At home = consuming less energy while enjoying the same level of comfort.

Optimizing energy efficiency in buildings and manufacturing is essential... ... to reduce consumption and meet increasing demand.