Energy efficiency

An original, one-page study example from Tali

Definition

Efficiency is useful output energy divided by total input energy, multiplied by 100.

Worked example

The device delivers 150 J of useful energy from 200 J of input energy.

Efficiency = (150 / 200) x 100 = 75%.
The denominator is the total input, not the useful output.

Your turn

Another device receives 250 J of input energy and delivers 200 J of useful energy. What is its efficiency?

Check your answer

Efficiency = (200 / 250) x 100 = 80%.