

WHERE CAN WE USE IT?

1 KG OF HYDROGEN...

It provides about 3 times more energy than 1 kg of gasoline.

- Hydrogen calorific value: 120–142 MJ/kg
- Gasoline calorific value: ~44 MJ/kg

Recalculations:

1 kg of hydrogen \approx 3.2 kg of gasoline in terms of energy.

This means that to get the same amount of energy as from 1 kg of hydrogen, you'd need to burn over 3 kg of gasoline.



TRANSPORT

INDUSTRY



ENERGY STORAGE

RESULT OF HYDROGEN COMBUSTION:

- Byproducts: Water vapor (H_2O).
- No carbon dioxide (CO_2) emissions – hydrogen burns cleanly, producing no greenhouse gases.
- Released energy: Hydrogen combustion releases a large amount of energy, depending on the amount of gas burned (approximately 120–142 MJ/kg).

