

Glossary: Tonnes of oil equivalent (toe)

Statistics Explained

Tonne(s) of oil equivalent , abbreviated as **toe** , is a normalized unit of energy. By convention it is equivalent to the approximate amount of energy that can be extracted from one tonne of crude oil. It is a standardized unit, assigned a net calorific value of 41 868 kilojoules/kg and may be used to compare the energy from different sources.

Other energy carriers can be converted into tonnes of oil equivalent (toe) using the following conversion factors:

- 1 t diesel = 1,01 toe
- 1 m³diesel = 0,98 toe
- 1 t petrol = 1,05 toe
- 1 m³petrol = 0,86 toe
- 1 t biodiesel = 0,86 toe
- 1 m³biodiesel = 0,78 toe
- 1 t bioethanol = 0,64 toe
- 1 m³bioethanol = 0,51 toe

Further information

- [Tonne of oil equivalent \(TOE\)](#) (CODED - Concepts and Definitions Database)
- [Review of EU biofuels directive](#) - conversion factors

Related concepts

- [Kilograms of oil equivalent \(kgoe\)](#)

Statistical data

- [Energy statistics - an overview](#)