



Statement of participation

Muhammad Farid Wajdi Makkulau

has completed the free course including any mandatory tests for:

An introduction to energy resources

This 8-hour free course provided a general overview of the energy sources currently available, both old and new, for the course student to assess.

Issue date: 18 September 2025

www.open.edu/openlearn

This statement does not imply the award of credit points nor the conferment of a University Qualification.
This statement confirms that this free course and all mandatory tests were passed by the learner.

Please go to the course on OpenLearn for full details:

<https://www.open.edu/openlearn/nature-environment/an-introduction-energy-resources/content-section-0>

COURSE CODE: S278_2

An introduction to energy resources

<https://www.open.edu/openlearn/nature-environment/an-introduction-energy-resources/content-section-0>

Course summary

Energy resources are essential for any society, be it one dependent on subsistence farming or an industrialised country. There are many different sources of energy, some well-known such as coal or petroleum, others less so, such as tides or the heat inside the Earth. Is nuclear power a salvation or a nightmare? This free course, An introduction to energy resources, provides background information to each, so that you can assess them for yourself.

Learning outcomes

By completing this course, the learner should be able to:

- understand the difference between energy and power, and their units and prefixes
- state the relative contributions of different natural energy sources to the global energy budget
- describe the contribution of photosynthesis to the carbon cycle, and distinguish the terrestrial and marine parts of the cycle
- discuss the issues involved in concentrating, storing and transporting energy
- recognise which energy resources have a low energy density, and which have a high energy density.

Completed study

The learner has completed the following:

Section 1

Energy use

Section 2

Energy, work, power and efficiency

Section 3

Sources of energy from the natural environment

Section 4

Fossil fuels

Section 5

Nuclear energy

Section 6

Concentrating, storing and transporting energy

Section 7

Renewable and non-renewable energy supplies

Section 9

Glossary