



Statement of participation

Michael Frank

has completed the free course including any mandatory tests for:

Energy resources: Wave energy

This 3-hour free course provided an investigation into whether or not wave power might ever make a significant contribution to global energy supplies.

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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:
<http://www.open.edu/openlearn/science-maths-technology/science/environmental-science/energy-resources-wave-energy/content-section-0>

COURSE CODE: S278_9



Energy resources: Wave energy

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Course summary

The energy carried by ocean waves derives from a proportion of the wind energy transferred to the ocean surface by frictional drag. So, ultimately it stems from the proportion of incoming solar energy that drives air movement. Just how much energy is carried by a single wave depends on the wind speed and the area of ocean surface that it crosses; wave height, wavelength, and therefore wave energy, are functions of the distance or fetch over which the wind blows. This free course, *Energy resources: Wave energy*, considers wave power as a source of useable energy and whether or not it can ever make any significant contribution to global energy supplies.

Learning outcomes

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

- explain the principles that underlie the ability of wave power to deliver useable energy
- outline the technologies that are used to harness the power of waves
- discuss the positive and negative aspects of wave energy in relation to natural and human aspects of the environment.

Completed study

The learner has completed the following:

Section 1

Wave energy

Section 2

Conclusion