



# WELSH BACCALAUREATE SKILLS CHALLENGE CERTIFICATE

National/Foundation

## Global Citizenship Challenge

Marine Energy Wales



**Available for assessment from September 2020**

# Marine Energy

## PURPOSE

The purpose of the Global Citizenship Challenge is to develop learners' skills, whilst providing opportunities to understand and respond appropriately to global issues. During the Global Citizenship Challenge, learners will explicitly develop skills of **Critical Thinking and Problem Solving** and **Creativity and Innovation** and apply them in an appropriate manner.

## BRIEF

There are many problems in the world that we should all help to resolve even if it happens hundreds or thousands of miles away, or where you live in Wales. How do you become a global citizen? You need to make decisions about the issues that matter and the type of world you want to live in. Being a global citizen gives you the power to bring about positive change to make this world a better place. Reducing our dependence on fossil fuel gas and oil reserves is a 21st-century global aim.

Marine energy developers in Wales are striving to make a change in the UK's energy mix by developing infrastructure to harness natural power from the sea. Different designs can make use of waves, tidal currents, or from the tidal range around the Welsh coast.



Wales-based Marine Power Systems and Bombora Wave Power Ltd have invented very different machines that convert the movement of the **waves** into electricity.

Minesto have built and demonstrated an underwater kite, that uses **tidal stream** energy to make electricity.

All these renewable energy devices were built in Wales, contributing to our economy.

The Challenge will involve you being able to inform and educate people about the importance of **marine energy**.

- You will need to research the local and global effects of **marine energy**.
- Use what you have learned to write a personal standpoint.
- You then have to create a piece of work to engage an audience of your choosing with the potential of marine energy to contribute to the **Well-Being Goals for Wales**.

By completing this Challenge you will show that you can reason, make judgments, and make decisions to create an informed personal standpoint on marine energy. Show how creative and innovative you can be in communicating your ideas and presenting your message to other people.

## RESOURCES

### Marine Energy Wales

<https://www.marineenergywales.co.uk/about/education/> [education@marineenergywales.co.uk](mailto:education@marineenergywales.co.uk)