

Questions 31-40

Complete the notes below.

Write **ONE WORD ONLY** for each answer.

Marine renewable energy (ocean energy)

Introduction

More energy required because of growth in population and **31**.....

What's needed:

- renewable energy sources
- methods that won't create pollution

Wave energy

Advantage: waves provide a **32**..... source of renewable energy

Electricity can be generated using offshore or onshore systems

Onshore systems may use a reservoir

Problems:

- waves can move in any **33**.....
- movement of sand, etc. on the **34**..... of the ocean may be affected

Tidal energy

Tides are more **35**..... than waves

Planned tidal lagoon in Wales:

- will be created in a **36**..... at Swansea
- breakwater (dam) containing 16 turbines
- rising tide forces water through turbines, generating electricity
- stored water is released through **37**....., driving the turbines in the reverse direction

Advantages:

- not dependent on weather
- no **38**..... is required to make it work
- likely to create a number of **39**.....

Problem:

- may ham fish and birds, e.g. by affecting **40**..... and building up silt

Ocean thermal energy conversion

Uses a difference in temperature between the surface and lower levels

Water brought to the surface in a pipe