Listening Activity 1

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

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- 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

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