

<http://www.darvill.clara.net/altenerg/>

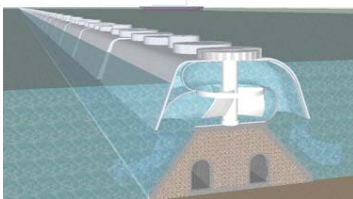
### 1. Introduction

Explain what a tide is: \_\_\_\_\_

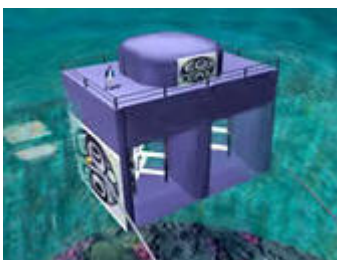
Can you built a tidal station power anywhere in the world? \_\_\_\_\_

### 2. How it works

Tidal barrage



Offshore turbines



## 2. Advantages and disadvantages

Advantages:	Disadvantages:

## 2. Summary

- Tidal Power is renewable
- Doesn't cause pollution, doesn't need fuel
- A tidal barrage is very expensive to build
- Only works when tide is going in or out
- A tidal barrage affects a large area
- There are very few places that you could sensibly build a Tidal barrage
- Underwater turbines may be a better bet than a barrage - they are cheaper and don't have the huge environmental impact.

## Quiz:

There is a great deal of energy in tides. To use it, we can build a large dam, called a tidal \_\_\_\_\_, across an \_\_\_\_\_ where the tides are strong. There are proposals to build one across the river \_\_\_\_\_ in the UK.

Tidal energy is \_\_\_\_\_, needs no \_\_\_\_\_ and produces no \_\_\_\_\_. However, such a huge dam is very \_\_\_\_\_ to build and will affect the environment over a \_\_\_\_\_ area. The largest one in the world so far is in the Rance estuary, in \_\_\_\_\_.

An alternative is 'offshore \_\_\_\_\_, like an underwater wind farm. This will not have such a dramatic effect on the surrounding area.

It will only generate power when the tide is going \_\_\_\_\_ or \_\_\_\_\_, but we know when this will be so we can easily plan for it.