

NORTHERN TIDAL POWER GATEWAY TIDAL POWER PROJECT MORECAMBE BAY AND DUDDON ESTUARY POINTS IN FAVOUR / PROS

Unlike other renewable energy sources generated in the UK, like solar and wind, tidal power is predictable and reliable.

The tidal barrage will hold back the ebb and flow of the tide to allow water to turn turbines sited within the barrage and produce electricity.

There are 2 tides a day, and electricity can be generated on the ebb and flow of each tide. It should generate 10Gw of electricity, enough for 2000 households, or just under 5% of UK energy needs for its life span of 100 years.

Morecambe bay and the Duddon estuary are ideal sites for tidal power as they have a large tidal range of up to 10m.

It will save £370m a year by generating sustainable energy.

This energy source is sustainable as it does not use a finite source (it will never run out) and it does not produce emissions such as carbon dioxide and so has no impact on climate change and global warming. This will allow the UK to move away from polluting and unsustainable energy sources such as fossil fuels and help the government hit its Net Zero target for carbon emissions by 2050.

Producing more of our own electricity will give the UK more energy security and make us less dependent on imported energy sources. This will make the UK less susceptible to price and supply fluctuations caused by the international situation and conflicts. The UK will have more control over supply and pricing.

The road built on the barrage will improve transport links to Barrow and the southern lakes, giving them easy access to Morecambe and Lancaster. This will give a boost to local economies and services by giving improved accessibility and should save £250m a year.

Fuel will be saved due to the infrastructure improvements, there will be less congestion and fewer vehicle emissions. Tourism may be boosted by people coming to view the new barrages and improved access to the southern lakes may also boost tourism and the local economy there.

13,000 jobs will be created during the 10 year building period and up to 7000 jobs during its 100 year life span. Many of these will be jobs for locals which will boost the local economy.

New subsidiary industries and services will be generated by the multiplier effect bringing £400m a year in economic growth and the new industries will generate £20b over 20 years.

The new tidal barrages will help protect the coastline from flooding caused by climate change and global warming. This will save £100m a year protecting against future flooding and storm damage, lessening the impact on coastal communities and coastal / tidal ecosystems.

Although the barrages may have some negative impact on the movement of boats in the two estuaries, locks will be placed in them to allow local vessels, particularly fishing boats, to reach their fishing grounds. Attempts will be made to try to reduce any negative impacts of local / estuarine ecosystems and sea life.

