

# Advantages and disadvantages of tidal energy

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Tidal energy is a growing renewable, clean, and environmentally friendly energy source that produces far fewer greenhouse gases than fossil fuels such as coal and oil. Moreover, its high predictability and elevated power output are also among the advantages of tidal energy.

Advantages of tidal power. Renewable and fossil fuel free. Unlike fossil fuels, tides are a nearly unlimited resource that we aren't running out of. This type of energy does not generate greenhouse gases or cause pollution through oil spills or burning like fossil fuels do. Predictable and consistent power.

List of Advantages of Tidal Energy. 1. It is renewable. Tidal energy's source is a result of the effects of the sun and moon's gravitational fields, combined with our planet's rotation around its axis, which result in low and high tides.

Riding the renewable wave: tidal energy advantages and disadvantages. Tidal power is one of the major renewable energy sources, but also one of the most infantile. What are some tidal energy advantages and disadvantages to consider when looking to invest in this relatively green energy source?

Advantages and disadvantages of tidal energy. Advantages. Unlike solar and wind energy, tidal movements are reliably constant. Every day there are two high tides and two low tides that can...

It is becoming clearer and clearer by the day that the world must break its addiction to fossil fuels. With humanity's use of fossil fuels have come air, land, and water pollution, more greenhouse gases generated than the environment can handle, and political and armed conflicts, among many other issues [1,2]. It is clear that humanity must switch to sustainable energy sources to ensure the survival of both ourselves and of our precious environment upon which we all depend.

As there is no "one size fits all" energy solution for every location and condition, humanity's energy future will likely consist of a variety of energy sources that are tailored to meet the unique needs and resources of each place. One of the options that may be explored as part of our future energy toolkit is tidal power, the capturing of the energy in the ocean's tides to generate electricity. However, as with all energy sources, there are advantages and disadvantages to using this type of energy.

Unlike fossil fuels, tides are a nearly unlimited resource that we aren't running out of. This type of energy does not generate greenhouse gases or cause pollution through oil spills or burning like fossil fuels do.

The tides occur every day at predicted times, and how much power the tides contain is relatively consistent. This consistent energy in tides allows for the construction of appropriate equipment that effectively collects

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the energy.

Since water is 1,000 times more dense than air, electricity can be generated from tides much more efficiently at slower speeds than wind turbines can.

The estimated lifespan of tidal energy plants is about 75-100 years, which is much longer than nuclear power plants. The world's oldest tidal energy plant, La Rance, in France has continued to efficiently produce large amounts of electricity since 1966.

This lower cost of equipment and facility replacement can translate to lower energy costs for consumers who use the plant's energy.

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