

# Hydrokinetic Power. The Power of Water.

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# What is Hydrokinetic Power?

- Hydrokinetic power is electricity power that is generated through the energy of moving water.
- Hydrokinetic power has to be used where a high moving water levels is found.
- This method of energy generation is viewed as very environmentally friendly by most people, since no waste occurs during energy generation.

# Pros.

- Hydrokinetic power is undoubtedly the most widely-used form of renewable energy.
- Hydrokinetic power is a preferred choice of power.
- In terms of reliability & consistency, hydrokinetic is way ahead of its other renewable energy counterparts.
- Hydrokinetic power is completely independent of fossil fuels or other perishable resources.
- The operational cost is low & is a clean way of producing energy.
- Unlike many other forms of energy, power generation is almost instantaneous in case of hydrokinetic.

# Cons.

- Some are generated by waves and if there isn't too many waves that day then the power of it would be slower.
- You need a large enough reservoir or you can't have one.
- There are rare occasions but it has happened where the reservoir may break and flow into the ocean or place of which it was placed.
- Can sometimes on where the reservoir is placed effect the environment.
- A drought can harm it severely.
- Silt may effect the walls on where it was build and cave them in.

# Prices.

The piston type system as which we would like to use would cost from the minimum of 300,000 dollars from the highest to about 2.2 million dollars.

A dam type system would cost about at lowest 1 million dollars to the highest at about 5 millions dollars.

# This is a Piston Hydrokinetic Model.

The pistons are placed in the ocean and when the waves hit them they then slightly sink and harness the energy from the waves to generate the power sent to the houses to power their homes.



Pelamis Wave Generator

# Picture on how it works.

There is one piston that connects all of them and that one is very close to shore and is hooked up to a pump that is on shore that is connected to electric lines that send the energy to the homes.

