

# Hydro Power

The sum total of all the external conditions affects the environment and all the living beings which exist in it. If the environment is affected by some means then all the animals, plants and human beings are also affected by the stimuli which occur in their behavior and survival. This change occurs



by [population explosion](#) or distinction, depletion of natural resources and pollution. So anything that affects ecosystem is indeed harmful and needs to be eradicated. Similarly, [hydropower](#) is not the biggest [source of energy](#) on earth although it has a very less cost because it has many disadvantages.

## Disadvantages of hydroelectric power

There are many disadvantages of hydroelectric power due to which it is not used on a very large scale all around the globe. Before employing something on an industrial level, you should consider [pros and cons of hydropower](#). So the disadvantages are:



### **Emission of methane and carbon dioxide**

The reservoir of water for hydroelectric power releases a large amount of carbon dioxide and methane. The area around the dam is filled with water. The plants and trees in them start rotting and decompose by other method without the use of oxygen. So this type of decomposition dumps a great amount of methane and carbon dioxide which increase [pollution](#).

### **Disturbance of habitat**

The formation of large and huge dams destroys the living beings around them. Local life is disturbed as human can't live in such a flooded area and plants are destroyed. People living nearby have to relocate.

### **Installation costs**

Although the effective cost is zero but the manufacturing and building a dam and installation of the turbines is very costly due to which many countries do not employ this alternative source of energy. If the initial cost had been less; then it would have used more commonly. Its construction requires a lot of human capital and labor. Its maintenance is also very costly.

### **Limited use**

As the hydroelectric power is produced by the water which depend on the yearly rain falls so only those areas can use this method which receives a good amount of rainfall water because this method needs a huge reservoir of water.

### **Divert natural waterway**

Dams and rivers collect water for the production of electricity which alters the natural system of water flow thus depriving houses of the water they need.

## Effects on agriculture

Making dams on rivers affect the amount, quality and temperature of water that flow in streams which has drastic effects on agriculture and drinking water.

## Fish killing

The water while flowing through the dam collects nitrogen which can damage and also kills fish. They can also damage the reproduction of fishes thus eliminating the whole [species](#) of fishes.

## Disputes between people

Changing the river pathway and shortage of water can cause serious disputes between people.

## Breaking of dams

Many dams which were built for industrial use or for mills are not now used and occupying a great space but they can't be broken or removed as it would cause serious flooding. This would not only affect the humans but also many buildings and property.

## Deposition of silt

So the research is going on decrease its disadvantages and to make it happen on a large scale. So hydropower is sustainable and long-lasting source of energy. It produces a great amount of electricity. Dams can also be used for other purposes like fishing and sports. All these advantages show the importance of hydropower electricity which gives us a solution for the problems of this boom and gloom economy.

[http://www.conserve-energy-future.com/Disadvantages\\_HydroPower.php](http://www.conserve-energy-future.com/Disadvantages_HydroPower.php)

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[Hydropower](#) has now become the best source of electricity on earth. It is produced due to the energy provided by moving or falling water. History proves that the cost of this electricity remains constant over the year. Because of the many advantages, most of the countries now have hydropower as the source of major electricity producer.



## Advantages of hydropower:

### No pollutants!

The first [benefit of the hydropower](#) is that no air or water pollutants are produced. The water used does not contaminate the air or water by producing harmful wastes. No poisonous bi-products are produced. If we compare it to the a nuclear source which produce electricity from a radioactive substance in a nuclear

reactor, then we notice that no pollutants are produced from a hydropower source as compared to the nuclear wastes and radioactive rays which are damaging the life on earth. These wastes from nuclear reactors then reach water due to power system and this is how [water pollution](#) takes place, not only affecting humans but also aquatic life.

## Say no to greenhouse gases

No greenhouse gases like carbon dioxide are produced which makes this source of energy environment-friendly. It prevents us from the danger of [global warming](#).

## **Saving natural resources**

The hydropower does not use any fuel or fossil fuels. The natural balance in an ecosystem is not disturbed. The fossils are non-renewable so their saving is very important to make sure that they do not deplete.

## **A predictable renewable source of energy**



It is a [renewable resource](#) as it can be pumped again and again and water is recycled on the earth naturally and artificially both through the water cycle. Water never actually completely depletes. It dominates other renewable resources like [wind energy](#) because it has a predictable nature. The forecast can tell us about the rainfall and we can keep ourselves prepared for water collection.

## **Dams as a water reservoir**

Another benefit of dams is that they not only produce electricity but also saves and reserves water so that the

water is not wasted into oceans and seas. So it is like two advantages in a single packet.

## **Economical advantage**

This source not only assists environment but also the economy. As no fuel is used and we also know that the prices of fossil fuels are raising very high so not much cost is made on the production of electricity. Other than that, no imports are needed to be made which saves money. The cost of this electricity is less than electricity produced from [fossil fuels](#) and nuclear power.

## **Constant source of energy**

The prices of fuels keep on increasing on and off. Due to which the cost of electricity also keeps on changing but due to rainfalls the rate of hydroelectricity remains constant somewhat and does not increase much. Hydropower source can lighten the country 24/7 whole year.

## **Controllable source of energy**

The rate of electricity produced can be changed by varying the speed of water flow. The faster it would flow, the more energy it will have to run the turbines. So ultimately turbines convert the comparably greater amount of [energy](#).

So hydropower is sustainable and long-lasting source of energy. It produces a great amount of electricity. Dams can also be used for other purposes like fishing and sports. All these advantages show the importance of hydropower electricity which gives us a solution for the problems of this boom and gloom economy.

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