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Spain: Water

Lack of water around the world

I hope you are having a nice day, today I will talk to you about the lack of water that Spain is having. Spain's lack of potable water is a major crisis for the people living there and it reflects the urgent need to take care of our natural water resources. The main problem that Spain is having lack of water specifically the south of Spain this is because of their rivers system, and also I am going to be giving some solutions that can solve this problem on Spain. But Spain is not the only country that have problems with the access of potable water and also don't have too much resources to survive. How Isaac Newton said once and now is best known as the Newton's third law, every action has a reaction, so, I will be giving you some of the consequences that the solutions can produce. With the water we can provide to a lot of people around the world it also can useful to water the crops, so they can cultivate the food they need to eat or sale the product to buy other important resources that they can achieve easily. This is a big project that can change the whole world for a good reason, and on an emergency where there is no more potable water on the earth. Then there will be no more solution than look out for different and desperate solutions to keep surviving. Also on a case of emergency (If we keep going like this, we will be on that situation on a couple years) where the drinkable water is at a lower percentage (actually 2.5% of water that we can use) then we will be forced to look to other solutions to use more water, and I think that this project will be one of the best options to solve the lack of water around the world. A good idea and a good use of the other 97.5% (which is salty water) will be purifying it and make it useful unless to water crops so field product can keep growing, and also can be used to keep alive animals, all for the same good that will be keep making products for food. The places where it will be best used is the countries where there is more lack of water and is harder that water go naturally, these will be mainly for the countries that suffer a lot of lack of water, but also can help bigger countries that are having a bad time with their resources. This is a project to make the world a better place to be and still living. This is a project that I have being thinking to do since four years ago, since here on Honduras there is a lot of lack of water on certain places of the country, but there are countries that are on worst and critical situations, live or death situations because of the lack of main resources. I didn't knew how to carry out this project or how to ask help for helping me carry these project out, maybe if I could talk about it or give the idea before I could have save many life or be about to. I have the faith that one day these projects will carry out and will save lots of lives around the world. I wish you could consider carrying out these project or helping me to carry it out, it will be a satisfying feeling working with other people that cares about the people on world that are on a critical situation, and will do their best to make sure that the project will be a good opportunity to have a better world, and also that feeling of helping people that really needs it.

According to (Group, World Bank, 2019) In Spain there are 46,741,647 million of people 20.2% are rural areas and 79.8% are urban areas. The government of Spain is a monarchy, a social representative democratic constitutional monarchy. 24.66 % of the land on Spain is cultivated by apples, apricots, bananas, pears, peaches, and plums according to what (Encyclopædia Britannica, inc., 2020) says. Some of the things Spain exports are vehicles, mineral flues including oil,

machinery, electrical equipment, plastics, and other more things. The farm size of Spain is 1 million hectares (2.5 million acres). The climate that Spain has is hot and mild when is summer but rainy when is winter also on some parts of Spain on winter it snows. The borders that Spain has are with Portugal, Gibraltar, Andorra, Atlantic Ocean, Mediterranean sea, Morocco, France (40 000N, 400W). Some of the typical foods or foods that are mainly known that are eaten on Spain are: Paella, Iberian Ham, Gazpacho, Spanish Tortilla, Churros with chocolate (Adventurer, Local, 2019). In Spain there are almost 2.5 people per household. Their diet consist on a small breakfast, midday snack, a large afternoon lunch, late noon snack, late evening meal . (Boutique, Lexidy Law, 2018) Says that on Spain some of the mainly products that Spain export are: Vehicles, machines and engines, oil, electronic equipment, pharmaceuticals, plastics, fruits, iron and steel, clothing. Some of the works that you can find in Spain are automobile, banking, electricity, Pharmaceuticals, telecommunications. All families on Spain have access to public education; public education on Spain is free for every Spanish kid. All the families also has access to clean water met the MDG target for water 100%. The most important barriers influencing healthful shopping behaviors including high price of healthful food, inadequate geographical access to healthful food. In Spain there are almost 2.5 people per household. Their diet consist on a small breakfast, midday snack, a large afternoon lunch, late noon snack, late evening meal . Some of the works that are in Spain is automobile, banking, electricity, Pharmaceuticals, telecommunications. All families on Spain have access to public education; public education on Spain is free for every Spanish kid. All the families also has access to clean water met the MDG target for water 100%. The most important barriers influencing healthful shopping behaviors including high price of healthful food, inadequate geographical access to healthful food. (Fund, World Wildlife, s.f.) says that proximately all around the world over 1.1 billion people worldwide lack access to water, 2.7 billion find water 1 month at the year, 47% of the world suffers scarcity of water at least 1 month at the year, worsening by 2050 57% of the world will suffer scarcity at least 1 month at the year. Climate change, water overuse, increased pollution, affects rural areas because they need water for their crops and for their personal hygiene the same with urban areas. Lack of water that is affecting all around the world, but it affects more on the places where people cultivate food and don't get the enough water to water all of their crops, so then they could lose all of those cultivations that can feed many people, that don't have access to it.

Solutions	Strength(pros)	Weakness (cons)
Have reserves were people can't waste water	It will be more water	Will have lot of people against the project
Reduce water were is wrong wasted	All will have almost the same amount of water	Some of the gubernators of does countries won't accept
Use the water of the ocean for purification and use it	Will have pure water and have a solution to save more water	It will be tons of salt left, and won't know how to get rid of it

What is a water reservoirs? A water reserve is a tract of land reserved for feeding streams that are utilized for water supply (Merrian-Webster , 2020), in other words, a water reserve is a place where the water is accumulated for a country, city or a town to have a better control of their water waste so they can conserve water on a better way so the water can surrender and have a better use of it, and also to control flooding. How are water reservoirs built? (Stanley, s.f.) Is explaining to us what is a water reservoirs and also will be talking to us of how those the water reservoirs are built and created. A reservoir is an artificial lake where water is stored. Most reservoirs are formed by constructing dams across rivers. A reservoir can also be formed from a natural lake whose outlet has been dammed to control the water level. The dam controls the amount of water that flows out of the reservoir. People build reservoirs because the amount of water in a river varies over time. During very rainy times or when mountain snow is melting, the water in a river rises and sometimes overflows its banks. By limiting the amount of water allowed to continue downriver, reservoirs help control flooding. Also a benefit that water reservoirs can provide is activities that you can do with family or friends, some of those activities are boating, fishing. A bigger benefit that water reservoirs have is that it can be use a process that is name hydroelectricity, hydroelectric is a way to make electricity by the help of water on the water reservoirs, this helps the cities or towns to get a cleaner electricity that also helps the environment to use the natural resources for many things, for good things. Do the water reserves replenish? According to (water.ca.gov) Groundwater recharge (or replenishment) is the mechanism by which surface water moves from the overlying land surface and into the aquifer below. Replenishment can be accomplished when surface water moves through the topsoil and subsurface, or through injection of water directly into the aquifer through wells. Natural replenishment occurs from precipitation falling on the land surface, from infiltration of water stored in lakes and streams, and from groundwater underflow into the basin. All of this it occurs by itself without any help of humans, it is a natural process that can replenish their resources. I will also name you the top 10 countries with Freshwater Resources according to (Anwar, 2018),

Country	Freshwater(cubic kilometers)
Brazil	8,233
Russia	4,508
United States	3,069
Canada	2,902
China	2,840
Colombia	2,132
European Union	2,057
Indonesia	2,019
Peru	1,913
India	1,911

Water waste is one of the other problems that the world is facing, because on the agricultural part there are almost 1.3 billion tons of food wasted every year worldwide is 45 trillion gallons of water. This represents a staggering 24 percent of all water used for agriculture. Agriculture is already the world's biggest user of freshwater: The sector accounts for 70 percent of all use around the world, according to the World Water Assessment Program. This has benefits and consequences, some of the main benefits of this is that the product that they harvest it will be cleaner, fresher, on better conditions, have a better appearance, they will have a longer duration while they collect all the

product. By the other side the obvious consequences are that they waste too much water that can be useful to other things, it could be used on the same process while collecting the product, or also use the water until it is useful (dirty). Farming accounts for 70 percent of the water consumed and most of its wasteful use, said representatives of 130 nations at the World Water Forum discussing water management (Wired, 2020).

The solution that I think is the easiest and most comfortable to carry out is the solution to try to purify ocean water, because of many reasons will be a good idea, some of those ideas will be that there will be less people with lack of access to water. Another benefit of this project will be that in case of an emergency when the world is at a point where no more potable water we could have that solution until we find other solution because we can't leave the oceans without water, from this solution we will have a bigger solution and is that we will need to have a better care with the oceans, by not throwing trash or wastes, we will be more careful with the boats that import and export products between counties and continents so we can pollute in the less way possible. But also we will need to be careful in the way we extract water from the oceans because we also need to take care of the aquatic life because believe it or not the aquatic ecosystem is very important to the earth they are in charge to clean the ocean by a natural way, if this project is carried out we will need to be careful with the places where we extract water, a place where there is not too much living ecosystem so all the aquatic organisms have a normal life. This was some solutions that can solve other situations that are critically happening on the world right now like the amount of trash there is right now. (Gleick, 2008) Say that it's hard to put an exact dollar figure on desalination—this number varies wildly from place to place, based on labor and energy costs, land prices, financial agreements, and even the salt content of the water. It can cost from just under \$1 to well over \$2 to produce one cubic meter (264 gallons) of desalted water from the ocean. One of the problems with purifying the ocean water is that the desalination of water requires a lot of energy. Salt dissolves very easily in water, forming strong chemical bonds, and those bonds are difficult to break. Energy and the technology to desalinate water are both expensive, and this means that desalinating water can be pretty costly. How is energy used to separate salt from water? Two basic methods for breaking the bonds in saltwater: thermal distillation and membrane separation, Thermal distillation involves heat: Boiling water turns it into vapor—leaving the salt behind—that is collected and condensed back into water by cooling it down. The most common type of membrane separation is called reverse osmosis. Seawater is forced through a semipermeable membrane that separates salt from water. Because the technology typically requires less energy than thermal distillation, most new plants, like Tampa's, now use reverse osmosis.

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solutions that can solve other situations that are critically happening on the world right now like the amount of trash there is right now.

There will be many disadvantages of this project, the first one is that maybe we will need many chemicals so we can clean and purify water and it could be a little bit dangerous depending how powerful the chemicals are, and the amounts of chemicals it could need the desalination chemical treatment market for scale inhibitors, biocides and cleaners is approximately \$600 million, according to Richard Barwell, VP MENA at chemical company BWA Water Additives. Over 70% of thermal desalination production is used in drinking water and less than 20% used for industrial applications. "The thermal market is growing at a rate of 2.5 CAGR (compound annual growth rate), with the Middle East accounting for 90% of the market," says Barwell. "Membrane desalination also has a very large presence in the US - at over seven million cubic meters a day of production - with Saudi Arabia next at around four million cubic meters a day. The membrane market is growing around 9% CAGR with Seawater Reverse Osmosis growing the fastest". Other disadvantage on this project will be that if we abuse extracting water then the aquatic life will start to decrease and the ocean probably will start to present some problems because of the lack of some important organisms that have an order to maintain the ocean clean and without toxic substances like metals found on the ocean because some organisms (bacteria) eat metal to stop those toxic substances. The main disadvantage of this and the most obviously is that there will be a lot of salt and how we will get rid of it, well after thinking about solutions and searching the benefits of salt. There are 25 ways of how we can use salt around our house and have benefits about it. This could be a great solution to get rid of that big amount of salt left over by purifying the ocean water, this will make another pros on why it is a good idea to carry out this project we will help people have a better management of their houses. In conclusion this project could save many life of many people of different countries and all around the world that don't have the resources to achieve does kind of essential resources, this project can also can help people that works on the field raping and on certain seasons they don't get the enough amount of water to water all of their crops and lose part of does resources that could feed many families, because of the lack of water, and that can also help to stop the hunger around the world. This is one of the most convenient projects to solve the problem of lack of access of water on the countries, continents, and world when there is no more potable water left on the earth. This can be a very good project but like everything it has consequences we will need to be careful on the way we extract water and the way we use it because we won't have the opportunity to waste lots amounts of water.

This is one of my biggest dreams, create or plan something that can help thousands, millions of lives to keep surviving and giving them another opportunity to do something about their lives like try to fight for their resources against the government for their rights. This is one of my life goals, and will work hard to try to carry out this project. It would be a great opportunity to help people that don't have any type of resources. I will like you to help me to carry out this project that could change the world on a positive way, make it prettier, change people's mind of how to help other people even if they are at the other side of the world, show our kids and grandkids to maintain the beautiful world where we live, and also not only the world also the people's perspective that we need to start taking care of the world because is the only planet on the solar system where we can live in.

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