

# Urmia Lake: Water is the Gift of the Universe; will it be Destroyed by us Humans? (Introducing the Concept of Golden Water Project to Save the Earth)

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**Abstract:-** With the hypothesis of the presence of water on Mars for years humans have invested hundreds of billions of dollars and researched it now by launching the Perseverance spacecraft and landing it on the surface of Mars they are looking for signs of life on this planet. This is a sign of the importance of water for people and countries while without a doubt water means life and nothing survives without water. Of course the fate of the countries is decided by the water in these countries not the oil and oil condensates that cause the destruction of the planet day by day. Fresh and drinking water is a challenge in more than a hundred countries of the world and it is very difficult to meet the water needs of these countries. This challenge has endangered human lives and all animal species and the environment and if serious action is not taken life on the planet will be destroyed.

**Keywords:-** Water; Golden Water Project Concept; Water Shortage Crisis.

## I. INTRODUCTION

In this article I have taken a detailed look at water and the crisis of water scarcity and climate change and by presenting the project and the concept of golden water I am trying to introduce this project to the world and also registering this project in my name is one of the goals of this project. By introducing some options that have dried up due to the water shortage crisis I will explain the reason for their drying up and the solution to revive them. If we examine the history of the creation of all civilizations in the world the most important factor in their creation was water.

The first oldest and most mysterious civilization in the world; It is ancient Egypt which has a history of more than 6,000 years and was built on the banks of the great Nile River. All the civilizations of the world from ancient Iran to ancient China were certainly founded next to rivers and water sources and whenever the rivers and water sources of these civilizations and settlements dried up life in that place was lost because of that. Iran and the Middle East region is one of the driest places in the world in terms of water resources. Now the situation is very acute and deteriorating and if this problem is not solved soon unfortunately we will witness an irreparable human disaster. Iran ranks 5th among waterless countries and all Middle East countries are among the 20 driest countries in the world and this indicates that a comprehensive and fundamental solution should be found to solve this problem.

We are facing a very dangerous phenomenon of land subsidence.

This is a very serious alarm. Unfortunately in the last 50 years with the growth of the population and the increase in agriculture and the lack of management of water resources and the lack of culture in the communities we have seen that permanent rivers have become seasonal rivers and seasonal rivers are generally dry and they are removed. Lake Urmia - Karun and many other rivers have dried up.

In fact, we in these 50 years to the weather; trees; mountains; forests; We have not given any price to the seas and humans and today the smoke of not paying this price has reached our eyes.

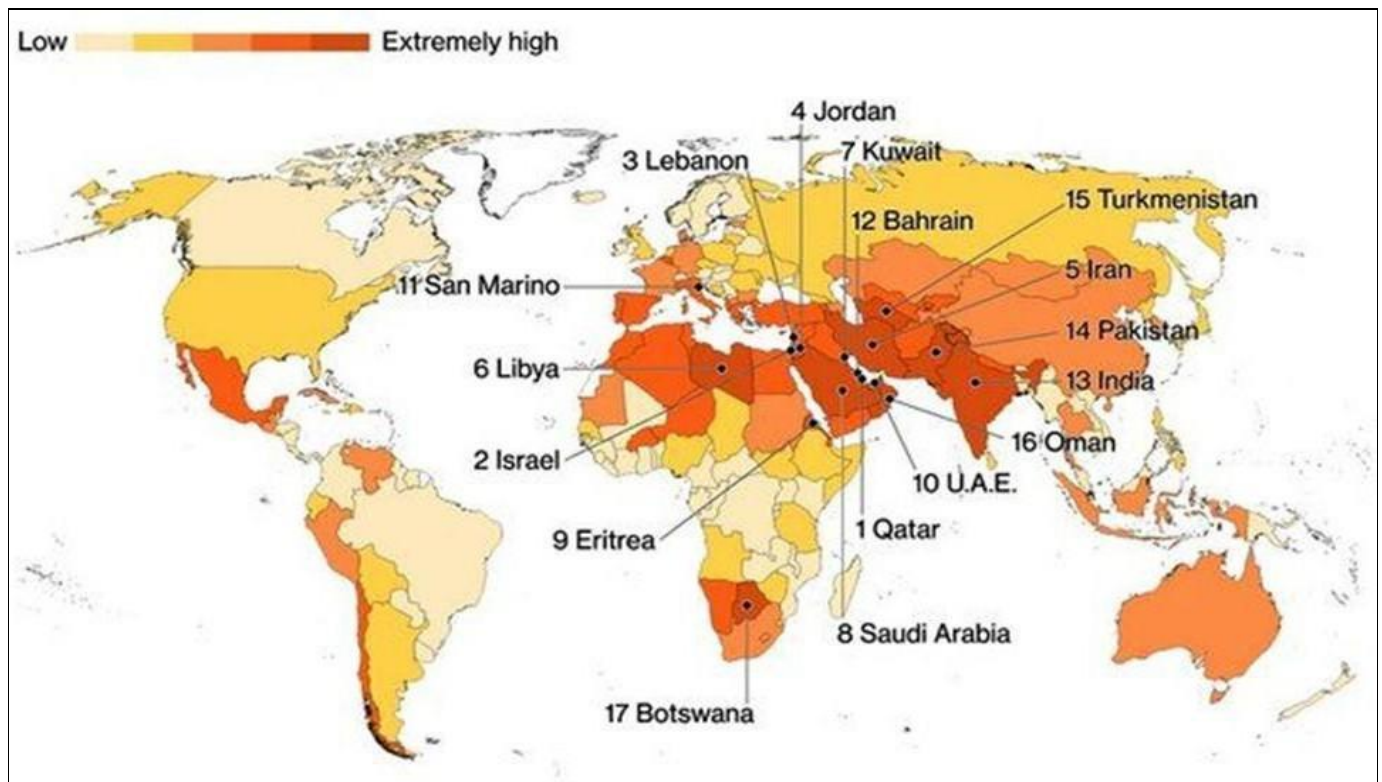


Fig 1: Ranking of Countries in Water Shortage Crisis

## II. DEFINITION OF WATER AND WATER SCARCITY

Water this life-giving substance is in danger. Water is the most important recycling cycle of the earth. Water vapor rising from the surface of the earth turns into clouds and then returns to the earth in the form of snow or rain. This unique cycle of recycling gives life to the planet and causes water to evaporate from salty seas and return to the earth as fresh water.

In areas where there is little rain the greenness of pastures trees and the lives of humans and animals are at risk. In the more comprehensive definition of man by water It produces the energy it needs because it produces its electricity from dams and nuclear power plants. If there is no water the production of energy will stop even the production of nuclear electricity will stop because as we know in order to cool the reactor of a nuclear (powerplant) there must be water around the reactor so without water there is no electricity from water.

Humans have tried various methods to supply their water such as fertilizing clouds after an operation.

The clouds are fertilized and start to rain but in this method there must be clouds in the sky to be able to implement this method. Another method is to transfer water from underground sources which is currently a workaround Because with the harvesting of these waters we will witness the subsidence of more soils and another method of desalination of sea water to meet water needs is very

expensive.

And it harms the environment a lot because the salt that comes out of the water during the desalination process is returned to the sea which causes the water to become more turbulent and the air in the water to decrease which is very harmful to the aquatic life of the seas. With these conditions by 2050 the fresh water in the world will be half of today's water.

➤ *The Problems of Water Crisis are:*

- Water shortage crisis in countries.
- Problems in the agricultural-industrial and drinking sectors due to lack of water.
- Reduction of underground water and the risk of land subsidence in all countries.
- Changes in various climates in countries due to low rainfall and snow. 5- Constant concern for the occurrence of rainfall in countries and the occurrence of permanent droughts.
- Providing temporary and ineffective and costly solutions to solve the water crisis including cloud fertilization seawater desalination and water transfer from underground sources...
- Air pollution in big cities in the winter season.



Fig 2: Water Crisis

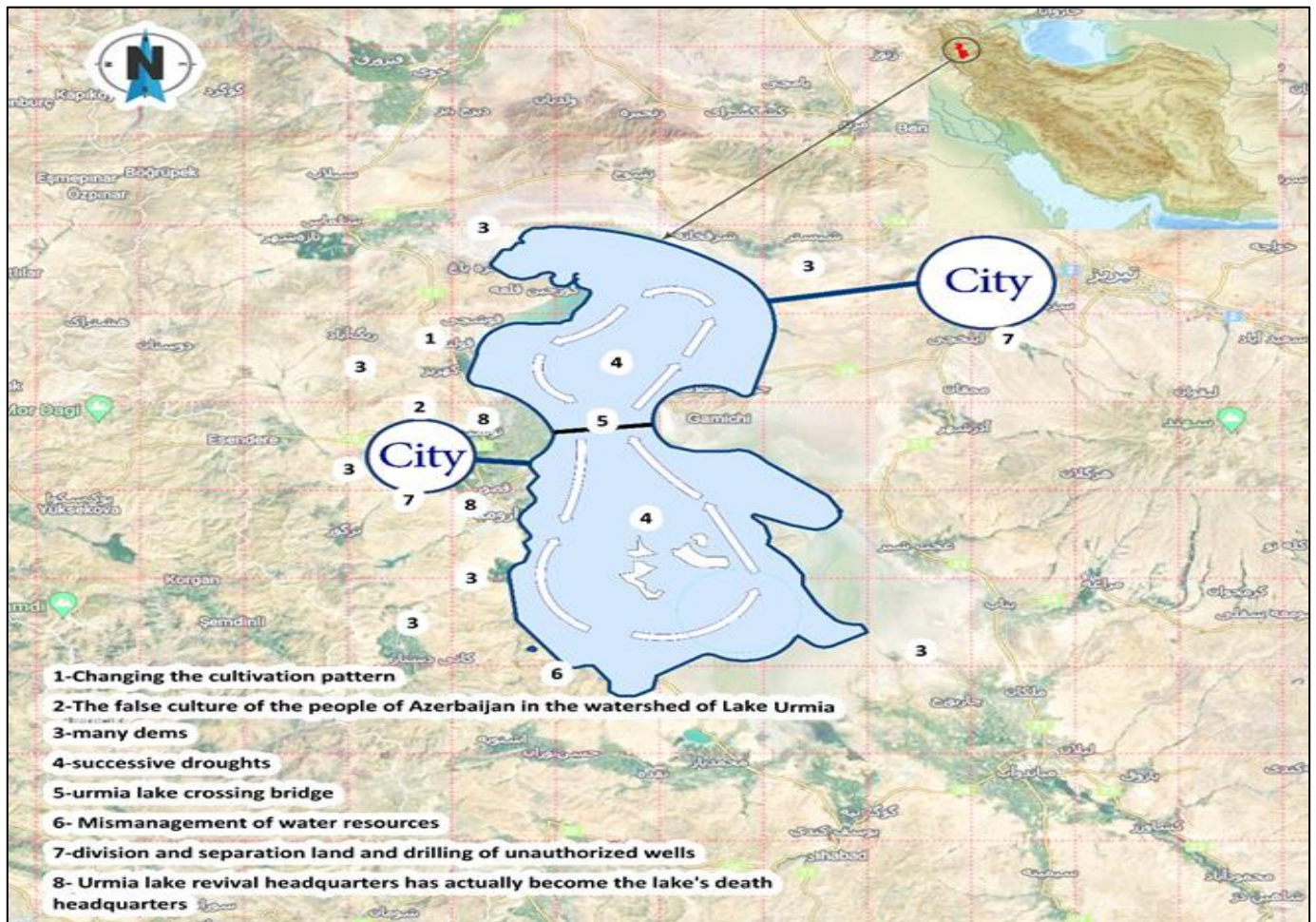
### III. OBJECTIVES OF THIS ARTICLE

- The main goal of introducing the Golden Water project and concept and registering it as the only option to save from the water crisis.
- Identifying the areas in the world that have lost their green climate due to the water shortage crisis and returning them to their original climate is one of the main goals of this article.
- Registration of new designs and new inventions to deal with the water crisis.



Fig 3: Lake Urmia in the Summer of 2023





7-The Main Causes of Lake Urmia Drying Up

#### IV. LAKE URMIA

The biggest environmental crisis in the Middle East is the drying up of Lake Urmia. The lake was so full of water in 1993 that the villages around the lake were thinking of evacuating their settlements. Because the height of the water was very high but now it has turned into a waterless salt marsh which is getting closer to destruction every day than

yesterday. Various theories and plans have been put forward and implemented, but none of them have been and will not be successful and the lives of more than 50 million people are at risk.

Because the world's second salt lake when it dries up it will cause salt storms and bring all kinds of cancers to people.



Fig 4: Comparison of Lake Urmia in the Summer of 1995 and in the Summer of 2023



➤ *The Main Reasons for the Drying Up of Lake Urmia are as Follows:*

- Changing the cultivation pattern of the catchment area of Lake Urmia (on average until 25 years ago grapevine cultivation was the dominant cultivation in Azerbaijan. Because a 10-year-old vine consumes 250 liters of water annually and this statistic is excellent for a tree that produces 8 types of products but unfortunately this pattern has changed to products such as sugar beet and vegetables that consume a lot of water).
- The wrong culture that exists among the people of Azerbaijan.
- All the people think about themselves and expect the lake to be revived. More than 70% of the people of Azerbaijan do agriculture and 90% of this agriculture is traditional

and in which 75% of the water used is absorbed by the soil and wasted without use however everyone is only thinking about their profit and income. Of course it goes without saying that if there was support from the government for farmers maybe we would see positive effects in this field.

- The lack of fruition of plans and programs for the restoration of Lake Urmia by various governments, which have not reached any results despite receiving several thousand billion of credits. Urmia lake restoration headquarters has basically become the death headquarters of Urmia lake because this headquarters has not done any positive program for lake restoration in recent years except for receiving credit.



Fig 5: Lake Urmia in the Summer of 2023

- Low rainfall and successive droughts that we have seen in the last 20 years have caused us to see thousands of wells being dug without permission in the Urmia plain and its surroundings. This has caused the reduction of underground water and eventually dried up the natural boiling springs which were one of the important sources of water supply of the lake.
- Many dams in the catchment area of Lake Urmia: Unfortunately in the last 25 years more than ten dams have been built on the main water supply branches of Lake Urmia.
- The intermediate bridge of Urmia Lake which has caused the natural flow of lake water to be interrupted and the lake water to remain stagnant and meanwhile water evaporation continues rapidly due to the increase in water temperature. In a conversation I had with one of the engineers of Sadra company (the contractor of the lake bridge) they stated that during the concreting process of the bridge foundation we had to fill six natural springs of the lake and if instead of the current bridge a more modern type of bridge would be used. It could have been used we would not have had to do this.



Fig 6: The Main Reason for the Drying up of Lake Urmia is this Bridge

- The seventh reason is the wrong management of water resources and watershed and the modification of water consumption patterns. The science of watershed management is the first word of water resources management in the world but unfortunately little importance is given to this science in Iran.
- Unfortunately in the last 20 years profit-seeking people have caused the destruction of vegetation by dividing and separating agricultural lands and making them smaller for example from 6,000 meters to 6 1,000-meter plots as well as digging more wells to irrigate agricultural crops.

## V. ANALYSIS OF TRIED METHODS FOR THE RESTORATION OF LAKE URMIA

Various solutions have been proposed for the restoration of Lake Urmia and a lot of expenses have been incurred. Among these solutions was the transfer of water from Aras ‘Zaab ‘ Van Turkey and Karadeniz which was finally completed from the Zab River.



Fig 7: Construction of a Tunnel to Transfer Water to the Lake

The second solution is to modify the consumption pattern which has failed due to the culture formations that have taken place.

The third solution is to control and increase the water input of the lake which is possible due to the release of water from the existing dams which is due to the lack of coordination between the relevant institutions which causes the water from the dams to not flow into the lake on time.

The fourth way is to destroy the earthen-stone bridge that was built due to political and security issues and divided the lake into half like a trench and in an age where cable-stayed bridges have been the first word in bridge construction in the world since 70 years ago a bridge is being built in Iran with all this national wealth and young labor and engineering which was out of order years ago and with the construction of this bridge the natural water flow of the lake was cut off and the water remained in its stagnant state thus the evaporation of water continued more intensively due to its stillness.



Fig 8: The Bridge that has Cut Off the Water Flow of the Lake



The length of this beautiful bridge in the picture below is 6790 meters and its height is 254 meters and it was opened in Denmark in 2009. It is interesting to know that in the same

year the intermediate bridge of Lake Urmia was opened twenty years later.



Fig 9: A Bridge in Denmark that has Prevented the Water Flow from Being Cut Off

## VI. ACCURATE ASSESSMENT

Lake Urmia had 16 billion cubic meters of water in its full state, and now in the summer of 2023 it has about 1 billion cubic meters. Also the evaporation rate of the lake water reaches 2 billion cubic meters annually and this means a disaster.

Many people compare Lake Urmia with Lake Van which is about 250 kilometers apart which is a completely wrong comparison.

Because firstly the Anatolian Plateau and the Iranian Plateau have a height difference of 700 meters from the surface of the open seas and Urmia Lake is located in a low point this is a factor for more heat and evaporation secondly the depth of Van Lake is more than 400 meters While the depth of Lake Urmia was 25 meters when it was full of water and this low depth and high salt of the lake causes the water to evaporate from both the bottom of the lake and direct sunlight in the summer season.

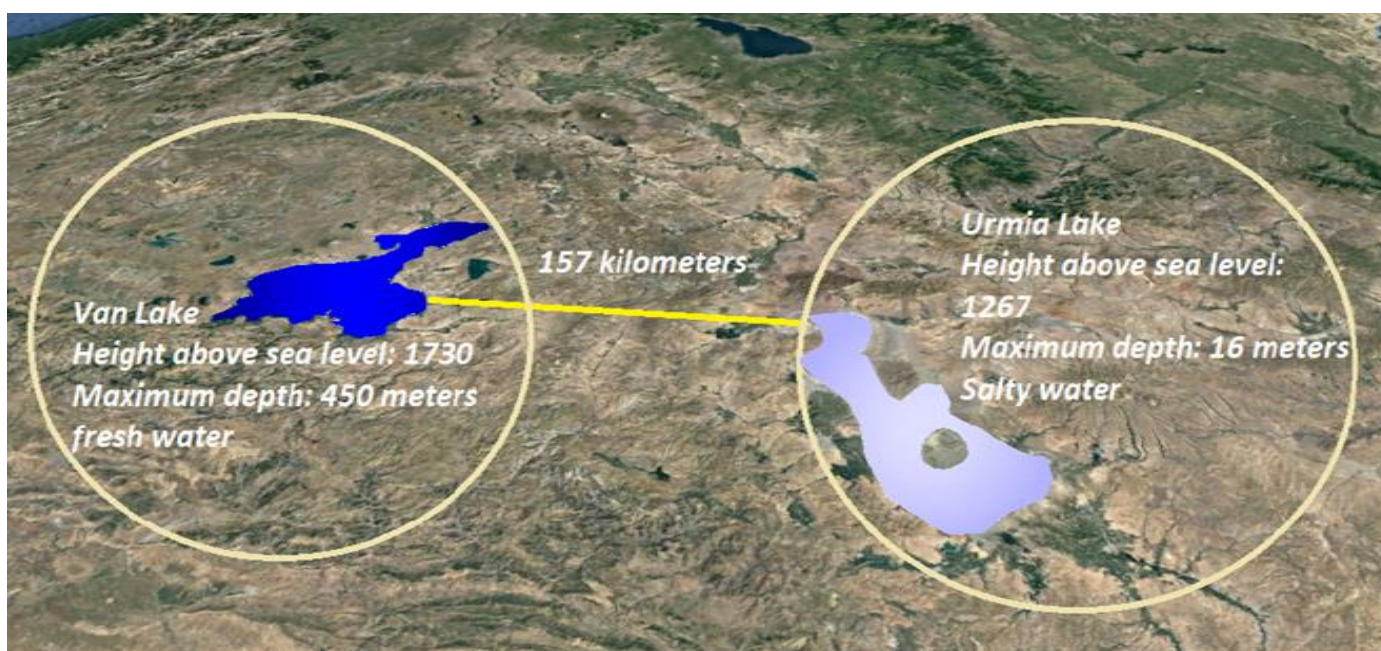


Fig 10: Comparison of Van Lake and Urmia Lake

All these things were stated to make it clear that the drying up of Lake Urmia is certain because just like third world countries we do not have any plans to revive Lake Urmia and a basic thought should be given about it.



Fig 11: Golden Water Project

## VII. GOLDEN WATER RESCUE PROJECT

This project belongs to all regions of the world that are facing the crisis of water shortage or drought and from an extraterrestrial perspective it can be said that by creating the golden water project we can provide life on other planets.

By taking over the areas involved in the water shortage crisis we will solve the water shortage crisis in those areas and return the climate of these areas to their original state.

We have the knowledge required for this.

The purpose of this article In fact, the introduction of golden water as a concept and life-saving project and its registration in my name in one of the prestigious journals.

### ➤ What Should be done to Revive the Lake?

The equation is very simple the annual water input should be double the water output in order to revive Lake Urmia.

If we want Lake Urmia to survive we must add 2 billion cubic meters of water to it every year and not allow this water to evaporate.

This program requires ten years of management scheduling and exhausting work with the program.

It is possible to supply water for agricultural products such as almonds pistachios and grapes which require very little water in the form of drops In this way it is possible to determine the type of agricultural crops in the catchment area of Lake Urmia and it is possible to save Lake Urmia from death forever.

In this way with the help of golden water we can supply drinking water to the cities and villages around the lake and in this way, we can release the stored water into the lake.

With the establishment of the Golden Water project firstly sunny days in the hot season will decrease secondly a black hole will be created on the surface of the lake and all the surrounding clouds will be drawn to it.

- Creating clouds in specified spaces helps a lot.
- with the help of golden water in winter we will eliminate the pollution of cities and not create a greenhouse effect.
- with golden water, we can restore the climate of regions and cities that have changed due to droughts and lack of management of water resources to their original state.
- Today with the crisis of water scarcity and the decrease in rainfall we are witnessing the drying up of underground and ground water streams which must and must be used for every city and metropolis in the necessary amount of this technology to be able to provide the water they need for agriculture and drinking and with the pollution of the air in big cities and industrial cities in the cold season we see many problems and for this reason it is important to use this technology to eliminate their air pollution.

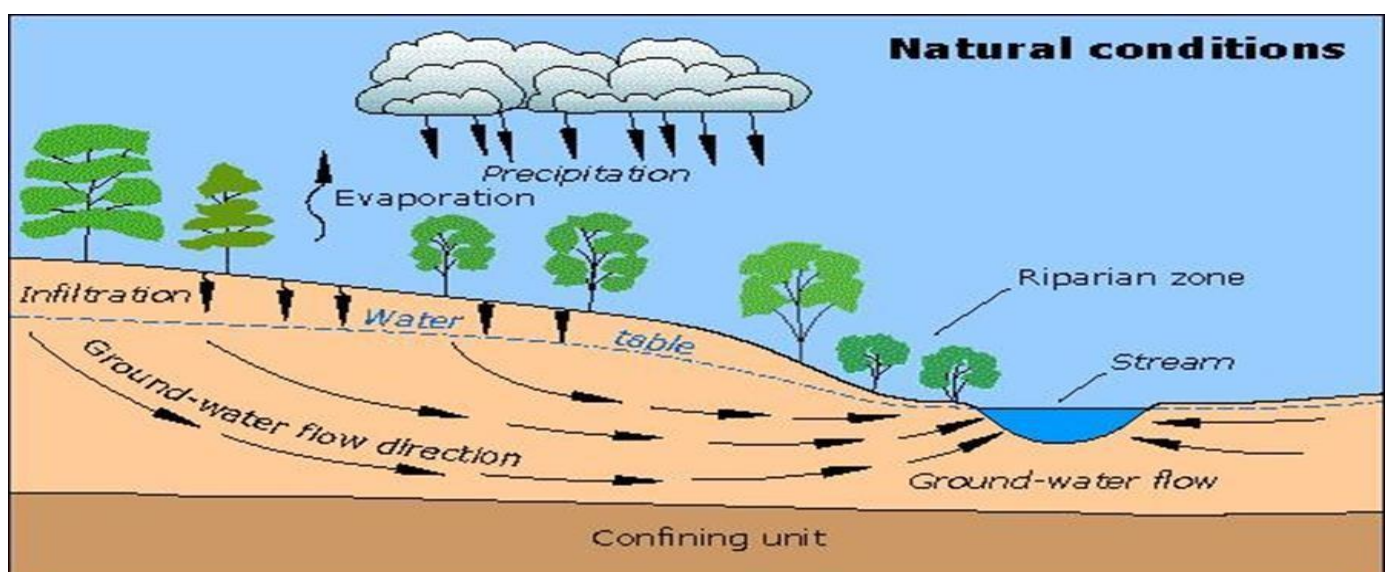


Fig 12: The Natural Cycle of Filling Lake Urmia as the Lowest Point in Azerbaijan



By using this technology, the sunny days of that region and city can be significantly reduced in the summer season because one of the reasons for the reduction of ground water is evaporation which occurs due to the increase of sunny days in each region for example the water of Lake Urmia loses its water on hot sunny days of the year but with the use of this technology we will not witness this phenomenon again.

The use of this technology is one of the obligations and requirements of our country.

Today it is no longer useful to fertilize the clouds because no more clouds enter our country in that way.

By using this technology it is possible to change the climate of the regions where there is a water shortage crisis in a natural way and turn it into an area full of water.

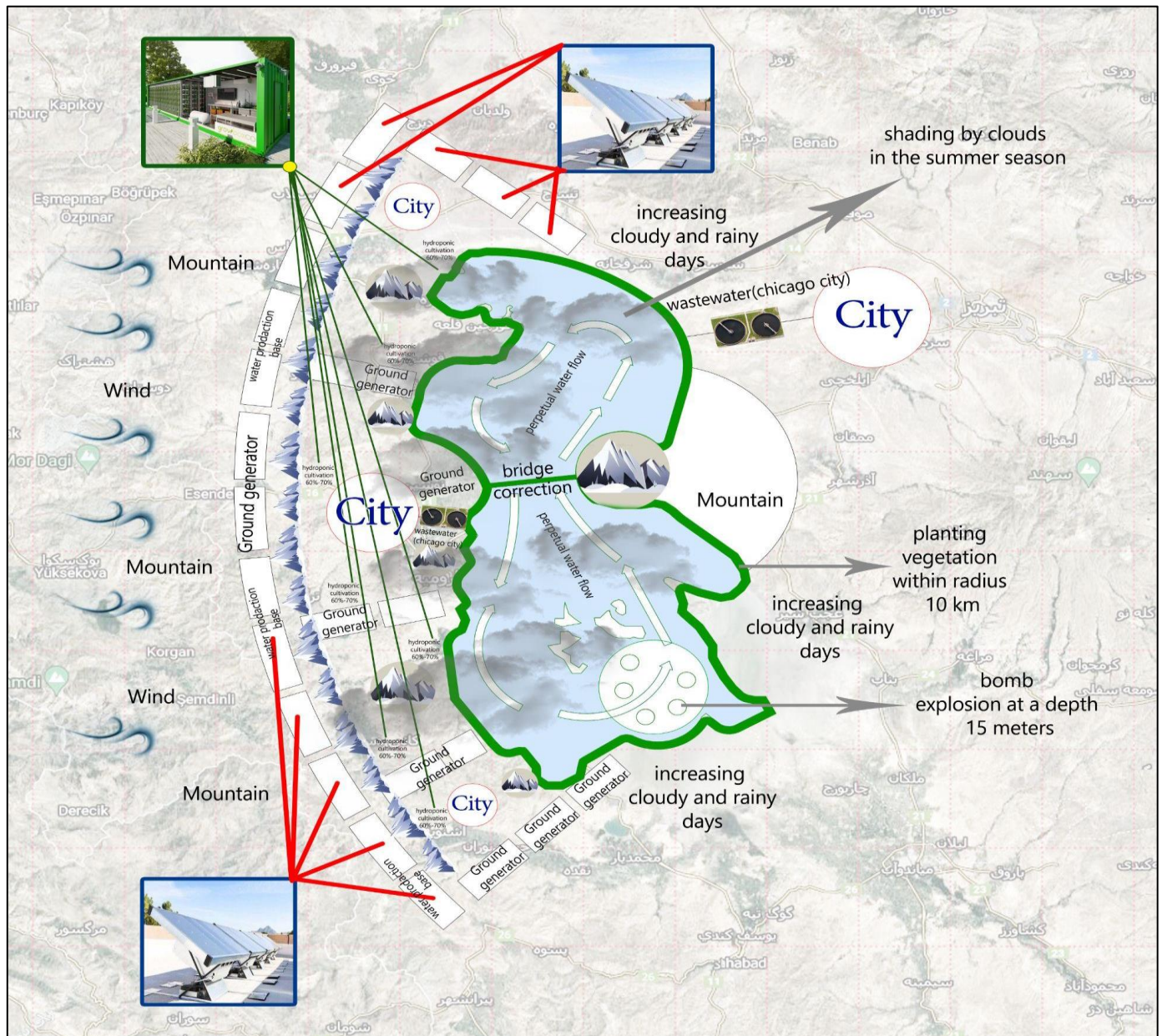
For this purpose water production bases should be installed on the mountain peaks above 2500 meters.

The linear distance of this base should be 10 km from each other for this purpose water production hydropanels that work with solar energy can be used. On the days when the sky in the area is clear by turning water into steam and clouds and directing it to the desired area sunny days can be reduced. Of course, it goes without saying that the cloud produced is heavy with the help of technology and is placed at a height of 2500 to 3000 meters above the ground it must be fertilized with the help of an earth generator and it should start raining in that area for this purpose it must be done by ionizing or manipulating the ions of the clouds. Regular repetition of these rains can change the ecosystem of any region up to 99.99% and improve the climate of that city or region. For areas that do not have mountains or hills the method of throwing clouds can be used.



Fig 13: Dams Built in the Last 20 Years





13-Basic proposed ways and theories and uses to restore the urmia lake

As it is clear in the picture the prevailing winds of Lake Urmia come from the west and this is a bonus for this revival of the lake. Because the wind plays an important role in the implementation of the Golden Water Project. There are also active dams in the Urmia lake basin.

In the above map, two important cities close to Lake Urmia namely Urmia and Tabriz are marked. The population of these two cities is over three million people. The existence of these cities despite being threatened by salt storms is due to the drying up of the lake; The best score is to revive the lake. Because with a complete and accurate modeling of the engineering and the method of sewage treatment in the city of Chicago America (with a population of 2 million people) which cleans more than one billion cubic meters of water daily and pours it into the Chicago River.

This river passes through the middle of the city of Chicago and the purified water returns to the system without any smell and completely healthy and with standard drinking parameters. Now why shouldn't this type of system be used in the two big cities of Urmia and Tabriz?

This system can help Lake Urmia and any city that faces water problems.

Because one of the necessities of every urban household is the use of sewage and if we can control the sewage and treat it with a modern system we can control dehydration.

Also the type of cultivation of all seasonal agricultural products should be changed to hydroponic cultivation because with this method 90% of water consumption will be saved, and the productivity and quality of agricultural products will increase by 98%.



Also planting trees with a radius of 10 km around Lake Urmia will reduce the lake and the environment and with this method the evaporation of the lake water will be greatly reduced and it will change the climate of the lake.

In another way by digging wells with a depth of 15 m in the lake bed and sending bombs inside the ground and detonating them it is possible to increase the depth of the lake and reactivate the springs that used to erupt into the lake. the power of these bombs should be at least 1 tons of TNT to completely lower the depth of the lake.

The Golden Water project and concept has been able to find a definite and permanent solution for this crisis with a ten-year detailed study of the available fresh water in the world as well as the study of the water in the countries involved in the water crisis. The future wars will be to get water because this precious resource is being destroyed and many countries are involved in this crisis.

Because of its infinite uses, water has been the most important liquid in nature since the beginning of life on the planet. Despite the existence of water the average temperature of the planet is 14 degrees above zero and if the water in the oceans and seas dries up the average temperature of the air on the planet It reaches 37 degrees and this means the destruction of the planet and all its living beings.

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