# The Poseidon Projects

## Deepwater Horizon X. - The Final Solution

On the 10th Anniversary of the Deepwater Horizon catastrophe, our team presents a possible solution for the **complete cleanup of the ocean floor and the Bio-Remediation of the entire Gulf of Mexico.**
This mission is the flagship project of **The Poseidon-Projects.**
The Poseidon-Project that is going to be one of the **most respected projects in the history of the ocean.**
This **new study** shows the level of the problem, 10 years after the catastrophic event, there are scientific estimates between 10-26 million gallons of oil-sediment poisoning the ocean on more than 2500 square miles area.

The Projects can be a milestone in combat climate change, because the success of the project and future projects like this, will contribute to the CO2-O2 balance, that affects the temperature in the lower atmosphere. Environmentally speaking, the project is going to be the largest, most important, most economical and most efficient ocean protection project which is at the same time will be a leading climate project. It is a scientific project, to be led by marine scientists, oceanographic professionals. Our major partner during the tests and the live operation will be a well-known Oceanographic Institute that is one of the oldest and most respected research institutions on Earth.

The operation will be a very interesting event and it will affect not just the ocean floor, but the entire Gulf of Mexico, and its residents. We will heal, feed and regenerate the ocean from the bottom to the top. In this recultivation process, we will regenerate the ocean environment by creating healthy PH-balance, we will affect the ecosystem and the lower atmosphere where we can take control of the CO2-O2 balance. Taking **control of carbon-dioxide** is important. The impact of **rising carbon dioxide concentrations** - including **warmer global temperatures**, altered weather patterns, changes in ecosystems, and melting ice- bringing catastrophic events on Earth.

Our solution will solve the acidification of the ocean. The **acidity of waters** and the **depleted level of calcium** is the main problem that we apply on the bottom of the water. **Photosynthesis is also needed calcium,** supporting and optimizing the reduction of CO2 level and transforming carbon-dioxide to oxygen. The well-being of phytoplankton and photosynthesizing plant-like organisms, which are actually suffering the acidic status of the ocean.

We have the **Concepts, Technology,** and **Solutions** that the World will greatly appreciate.

- The components of our technology are scientifically proved and also correct on logical pathways that based on scientific approaches.

  - **Scientific researches** show the detoxification, antibacterial, decontamination effects of



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earthworms and its **enzyme,** we also have laboratory test reports about that – we can produce and derive the high volume of it and it is a pure organic protein solution.

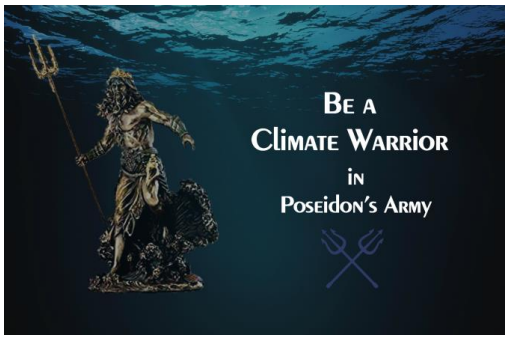
- Lime has proven deacidification ability for thousands of years. We make a compound with a small amount of lime, adding components, the enzyme, creating a special **temporary hydrophobe formula** that does not dissolves in the water (it stays **dry** on the ocean floor). We will apply this compound with a carrier material on the bottom and it will provide its decontamination-regeneration and revitalizing services. When the formula is losing its hydrophobe status, it will release the agents, the calcium, enzyme, and oxygen in the specific time like a medication capsule, depends on how we set up the timing.

- We have a **nanotechnology solution**, based on a new, but proven science. We finished our initial laboratory testing as well as field testing regarding the detoxification, antibacterial and absorbing capacity of our technology. With successful and promising results in our hands, we know it is time to step forward and enter a higher level, on the 10th anniversary of the Deepwater Horizon catastrophe. As a result of our systematic environmental protection program, we will guide the world into a cleaner, sustainable future.

- Our United Nations (UN) endorsed technology is part of the Strategic Technology Alliance that supports United Nations Sustainable Development Goals, SDG 14 and SDG 17.

# The Poseidon-Projects

**The Cleanup and Bioremediation of the ocean floor after the Deepwater Horizon oil-spill.**
**In Greek Mythology, Poseidon was most notably the God of the Sea and the Protector of All Waters, while he was also the God of the Storms and Earthquakes.**



### The Poseidon Projects – Deepwater Horizon: Our Flagship Project

Our flagship operation is BP Deepwater Horizon oil spill (2010) cleanup and regeneration of the ecosystem on the ocean floor. This project will be **one of the biggest and most famous ocean-protection, rescue-operations in the history of the ocean.** The problem is big, 10 years later there is still "nightmare" on the ocean floor as the research professor said in his report. There are still more than 10 million gallons of oil-sediment is poisoning the ocean. The scientist mentioned in his study: "*There is no technology to clean and regenerate the environment and the ecosystem on the bottom of the ocean"*, but he did not have knowledge about our technology.

The environmental disaster and the problem also proved by other scientists in different researches.
**Igal Berenshtein** (University of Miami) is the lead author of a scientific article, where he found an invisible and toxic oil layer from Deepwater Horizon spill on the estimated more than 50,000 square miles area, that may have made the disaster much worse than previously thought.
**Erin Pulster** scientist (University of South-Florida) made research and a long-term Gulf-wide survey and found evidence of oil exposure in fish, especially polycyclic aromatic hydrocarbons (PAHs), the most toxic chemical component of crude oil in all of them. Including some of the most popular types of seafood.
The highest levels were detected in yellowfin tuna, golden tilefish, and red drum.
*"We were quite surprised that among the most contaminated species was the fast-swimming yellowfin tuna as they are not found at the bottom of the ocean where most oil pollution in the Gulf occurs,"* said Pulster.

**We have a complex solution, which is actually compound of a physical absorbent and a biological remediation agent**. The UN SDG14 and SDG17 (United Nations) endorsed our technology based on proven tests and with your support, we can enter with this into a higher level and we will solve the unsolvable.

### Who can lead the world into a sustainable future if not us?

Our concept, technology, and products are one of a kind. The science tells the story behind our project. We are the sole company on the Earth who has the most effective liquid formula of the earthworm enzyme that enables us to perform the cleaning-decontamination in an aquatic environment. We use and combine the earthworms' powerful detoxification effects and the alkalinity of the hydrophobic powder to apply on the ocean floor. It is all organic and there is no harmful residual left behind.
People have used lime for thousands of years in water and soil when it became acidic to bring the PH into a neutral state, which supports life. But the lime dissolves in the water immediately. Only our company can apply it in controlled volume to the bottom of the ocean by using our time-release powder. Our specially prepared temporary hydrophobic powder will be applied on the ocean floor by ROV.

## Mechanism of action

The targeted application will cover the oil-sediment. The powder stays dry underwater because it repels the water (hydrophobic) but absorbs the oily substances. It does its job in 2-24 hours and the oil absorbed and transformed within the formula in the biological degradation process. After that over time, the powder loses its hydrophobic status and releases the healing components, basically the calcium and enzyme. The transformed, neutralized oil becomes food for the environment together with the calcium. When we produce the hydrophobic powder and enclose the calcium and enzyme, we also enclose oxygen that revitalizes the water upon release. The formula is alkali-based, therefore it will eliminate the acidic status of the bottom and the water. Of course. sampling, measurement and range-finding tests are necessary to restore the neutral PH-balance. Depends on the result of the tests, we can change the volume and the ratio of the components as well as the time of the loss of the hydrophobic status. This is the way, how we can take control of the PH-balance on the bottom of the ocean that creates a healthy and flourishing environment.

The Depleted levels of calcium is a big problem in the ocean, not just in the freshwater. Studies led by Yale University indicated low PH-level (acidic ocean) and low calcium levels were a major contributor to the last mass extinction. We can prevent this by adding calcium to the water, especially in deep water and the bottom of the ocean. Adding the healing calcium on the ocean floor removes the oil and transforms it into neutral, harmless material.
The Depleted level of oxygen also a significant problem in the ocean. The actual loss of oxygen in the ocean is significant enough to affect the planet as the study says.

Summarizing the Poseidon-Project, with our technology we decontaminate the ocean floor, absorb the oily substances, neutralizing acids, replenish the water with calcium and oxygen. The ocean is a blue heart on the planet. It's a majority of the living space on the planet and it's kind of the center of our life support system. Our technology contributes to the healthy environment and ecosystem in the ocean and as we help the ocean, the ocean will continue to support the life on the Earth.

## Possible Effects of The Poseidon-Projects

- absorb and cleanup oil-sediment, toxins and bacteria eliminated, regenerate the ecosystem in the GoM
- eliminating acidic status of the ocean floor and continuing in the water body and on the surface
- revitalizing the water with calcium and oxygen, creating healthy PH-balance in the ocean
- stop coral disease and revive dead coral reef from the skeleton
- support, feed and optimize the operation of photosynthesizing plant-like organisms, phytoplankton, optimize their operation in absorbing CO2 and transforming it into O2
- flourishing deepwater and ocean vegetation, life conditions
- major contribution to combat climate change
- more CO2 absorbed, more O2 produced
- creating a sustainable future and taking control on the process of climate change, turning the processes in the right direction. We are not the only one solution for climate change, it is a complex task, but we can be major part of it.

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