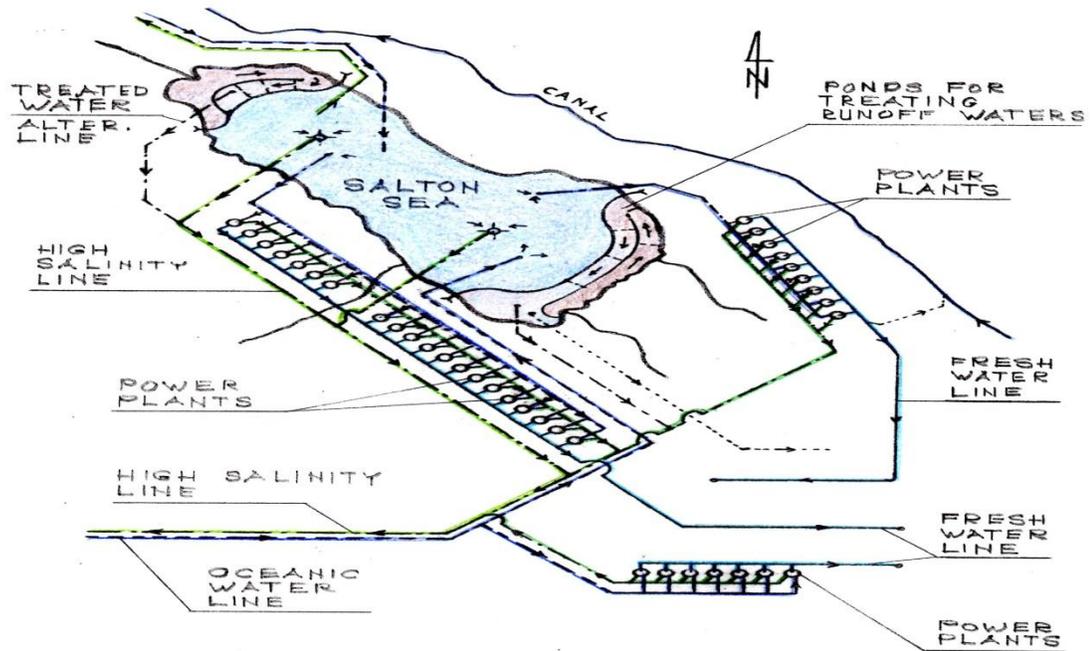


Proposal for the Restoration of the Salton Sea

“Scientific Geothermal Technology”

– Handout Summary – at Power Point Presentation

Long Range Plan Committee, CVWD, Palm Desert, CA - February 25, 2016



Proposer:

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EXECUTIVE SUMMARY:

Overview of the Salton Sea Situation

- The Salton Sea is California's largest lake and is presently 50 % saltier than the Ocean. The Salton Sea is a "terminal lake," meaning that it has no outlets. Water flows into it from several limited sources but the only way water leaves the sea is by evaporation.
- The lake is shrinking exposing the lake bed and precipitating higher salinity levels and environmental issues as well as a serious threat to its multi- billion-dollar tourist trade.
- Under the terms of the Quantification Settlement Agreement (QSA) the lakes decline is set to accelerate starting in 2018. About the 1/3 of inflow water from the canal will be diverted to San Diego and Coachella Valley.
- Runoff water from nearby agricultural fields which contains fertilizers, pesticides and other pollutants from Mexicali contaminate Salton Sea and make it an undesirable tourist destination especially for beach goers.
- The lake is 35 miles long, 10 miles wide, and is located south of Palm Springs in a basin 230 feet below sea level.
- The Earth's crust at the south end of the Salton Sea is relatively thin. Temperature in the Salton Sea Geothermal Field can reach 680 °F (360 °C) less than a mile below the surface.
- There have been many complains and studies about consequences for our community if we don't find a solution for the Salton Sea.
- There have been several proposals involving importing ocean water, but they failed to address the salt balance and pollution.
- This proposal is quite different - it incorporates in final comprehensive design, several patented technologies – that have not been accessible to the authors of previous proposals.
- This proposal has architectural element which harmoniously incorporates several patented technologies in a functional self-sustaining organism.

The Objectives of the Enclosed Proposal for Restoration of the Salton Sea

1. Raising and stabilizing the lake's waterline level;
2. Preventing further pollution of the lake and treating farmland runoff waters with natural and plant-based filtration systems – Similarly to successfully implemented sewer treatment in Arcata, CA;
3. Providing wildlife sanctuary;
4. The equalizing salinity of the salty terminal lake (Salton Sea) water with salinity of the Ocean and in process generate electricity (about 11.5 MWh) depending on selected corridor;
5. Providing conditions for tourism and making Salton Sea a renewed recreational destination;

6. Harnessing prevalent geothermal source of the Salton Sea Geothermal Field (SSGF) for generation of electricity; and
7. Production of fresh water with no additional expenses for it;

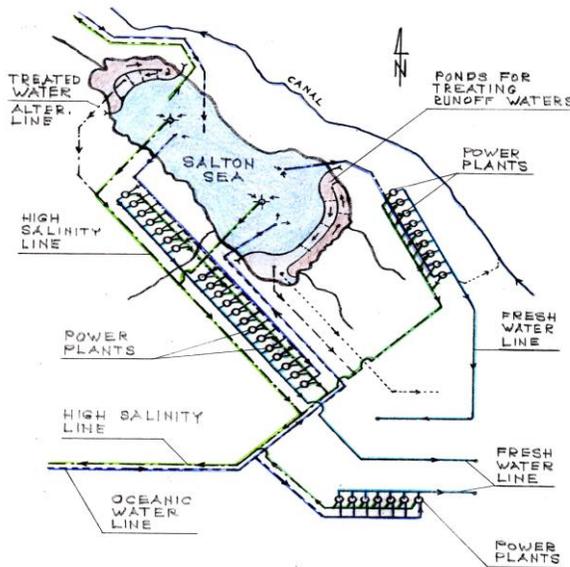
The Proposal for the Restoration of the Salton Sea Consist of Five Phases:

- **Phase I** - **Connecting the Salton Sea with the Ocean** (preferably San Diego / Carlsbad / Oceanside area) with several pipelines (preferably 4 inflows and 1 outflows pipelines) and in process generate electricity (about 11.5 MWh);
- **Phase II** - **Building two main dikes** - One in northern and one in southern part of the Salton Sea and several secondary dikes for forming ponds (wetland) for treatment of farmland runoff waters.
- **Phase III** - **Building one power plant** using (SCI-GHE) system at one of selected sector;
- **Phase IV** - **Building several more power plants** using (SCI-GHE) system - one in each selected sector; and
- **Phase V** - **Continued buildup** of additional power plants using (SCI-GHE) system at each selected sector;

SPECIFIC BENEFIT TO THE SALTON SEA

- It is a long-term solution for the Salton Sea and our community and it can be considered as a **“Project of the Century”** in California;
- It would employ many people during construction and after construction;
- It would cost **less than \$10 billion** (preferably \$7 billion), with the final result of “really” saving the Salton Sea and maintaining its water level of 50s and 60s.
- Preventing further pollution of the lake by dividing lake in three sections;
- Bringing ocean’s water, and providing conditions for tourism - Beaches, Resorts, Hotels, Motels, Front water properties, etc. - and in process of filling it with ocean’s water, generate electricity 24/7 (about 11 MWh);
- Providing wildlife sanctuary. Birds can chose which section to inhabit;
- Harnessing prevalent geothermal energy with a “Scientific Geothermal Technology” using a complete closed loop system (not conventional geothermal technologies);
- Producing potable water as a byproduct with no additional expenses for it;
- Generating hundred billion dollars in a few decades for our economy and it will continue so in the future.

Summary of the Proposal for Restoration of the Salton Sea



- **Phase I:** Connecting the Salton Sea with Pacific Ocean with pipelines for controlling waterline level of the lake; exchanging waters and in process **generating electricity**; and providing conditions for tourism.
- **Phase II:** Production of two sets of dikes – one in northern and one in southern part of the Salton Sea forming ponds for **treatment of farmland runoff water** and providing wildlife sanctuary, and separating (now) oceanic water in the central part of the lake.
- **Phase III:** Production of the first Power Plant with SCI-GHE system using geothermal sources for production of electricity and fresh water.
- **Phase IV:** Production of two additional power plants on two additional sectors.
- **Phase V:** Continued buildup of subsequent Power Plants at each sector.

EXHIBIT " A "



GEOTHERMAL WORLDWIDE, INC.

Power Plant

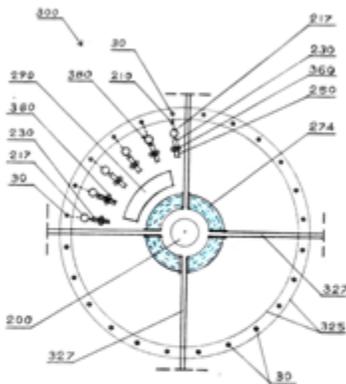


FIG. 41

- 300 – Power Plant.
- 30 – Wells.
- 380 – Power Units.
- 200 – Control Center.
- 290 – Processing Building.
- 274 – Fresh water pond.
- 210 – Heat Exchange system.
- 325 – Railroad track for maintenance derrick.

EXHIBIT " G "



GEOTHERMAL WORLDWIDE, INC.

