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## Salt Partners were appointed by California Supreme Salt to carry out Phase 3 of SOLARSAL<sup>®</sup> feasibility study



Salt harvesting at Dale Lake in Mojave Desert, California

CSS, California Supreme Salt, LLC, is based in Phoenix, Arizona, USA. CSS owns a salt mining concession on the Dale Lake, east of Twentynine Palms in California. Salt and sodium sulfate have been produced on small scale at Dale Lake since many decades.

CSS embarked on a project to expand production up to 450'000 t/y of common salt (NaCl) and 150'000 t/y of sodium sulfate (Na<sub>2</sub>SO<sub>4</sub>). The project comprises verification of the salt and brine deposits in the Dale Lake underlying aquifer, design of the solar saltworks, financial model of the investment and operating cost of the new facility and a marketing business plan.

The proprietary SEISMOSAL<sup>®</sup> electroseismic salt prospecting technology was employed by Salt Partners in cooperation with ATS Aquatronic Services, Gisborne, New Zealand. SEISMOSAL<sup>®</sup> proved that each square kilometer of the site contains enough NaCl and Na<sub>2</sub>SO<sub>4</sub> to last over 275 years. Assured of ample raw material available, California Supreme Salt commissioned Phase 3 of the feasibility study.

Separation of the sodium chloride and sodium sulfate by fractional crystallization will use only environmental energy. Salt Partners will apply the principles of their proprietary SOLARSAL<sup>®</sup> technology to design the brine pumping system, the crystallization ponds, salt harvesting, salt purification and handling.

The Salt Partners' advanced HYDROSAL<sup>®</sup> salt purification and refining technology, renowned for high purification efficiency and exceptionally low losses of salt, will be employed to make the final product suitable for human consumption and for high-end industrial use, including chloralkali electrolysis with membrane cells.

Salt Partners are independent consultants and engineering contractors, active in the field of salt production, processing and hypersaline biotechnology. Salt Partners' worldwide reputation is based on more than 40 years of experience gained in projects successfully implemented on all continents.

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