









Alternative Energy Specialist

Promoting Renewable Energy Efficiency

Alternative Desalination System (ADS)

Exclusive use of renewable energy for the desalination process, contributing to the protection of our environment and bringing unprecedented costs savings to the desalination industry, closing the cost gap between desalination and traditional water sources.

The ADS Advantage:

-  Discontinued use of land and building facilities for the desalination process. Only the product water storage will be required onshore. Since ADS is unseen from the shore, it avoids obnoxious noise and visual impact on the shoreline. It is submerged at a sufficient depth to allow free maritime traffic over the operating area.
-  Increased amount of output of desalinated water without the need to upgrade existing equipment. The vessels are stand alone and turnkey units, providing a modular plant design that can be easily upgraded and modified.
-  Maintenance and installation cost issues are reduced since ADS is placed in shallow waters, less than 100 feet. Maintenance is possible from the surface without the frequent requirement of divers or submersible maintenance equipment to work on, repair, or maintain the system.
-  ADS provides the means to be rapidly moved to an alternate location in order to optimize the use of renewable energy resources. It can produce large quantities of fresh water in locations distant from any public water distribution network.
-  Another advantage is it reduces the accumulation of concentrated brine released by conventional desalination plants. Conventional desalination plants release their brine through pipelines laid on the seabed a few miles from shore. In absence of sufficient currents or water mixing at the disposal spot, the accumulation of concentrated brine could be harmful for the sea flora and fauna. The ADS is designed to release the brine in the middle of strong sea currents at mid-depth, thus providing a rapid dispersion with minimal impact on the environment.
-  Lastly, the ADS reduces the risk of sea life impingement through the feed water intake system. Conventional desalination plants use single spot intake systems with particularly strong suction flows, while the modular configuration of this invention allows an efficient dispersion of the suction effect.

Alternative Energy Specialist

1801 North Tryon Road, Suite 212

Charlotte, NC 28206

<http://www.AlternativeEnergySpecialist.com>

704-299-5215 - office

