

WATER SHORTAGES

More and more we are reminded that Mark Twain said, "Whiskey is for drinking. Water is for fighting over."

He also said, "I've seen a heap of trouble in my life and most of it never came to pass."

This is an open letter concerning current and future water shortages and what might be done. Perhaps the heap of trouble which seems to be developing among people in the seven Colorado River states will never come to pass. Perhaps we can help.

We are Solar Power&Water. Our system can be represented as a 60-acre farm in a sunny climate yielding 190 ac-ft/yr of fresh water and 8.2 million kWh/yr of electrical power.

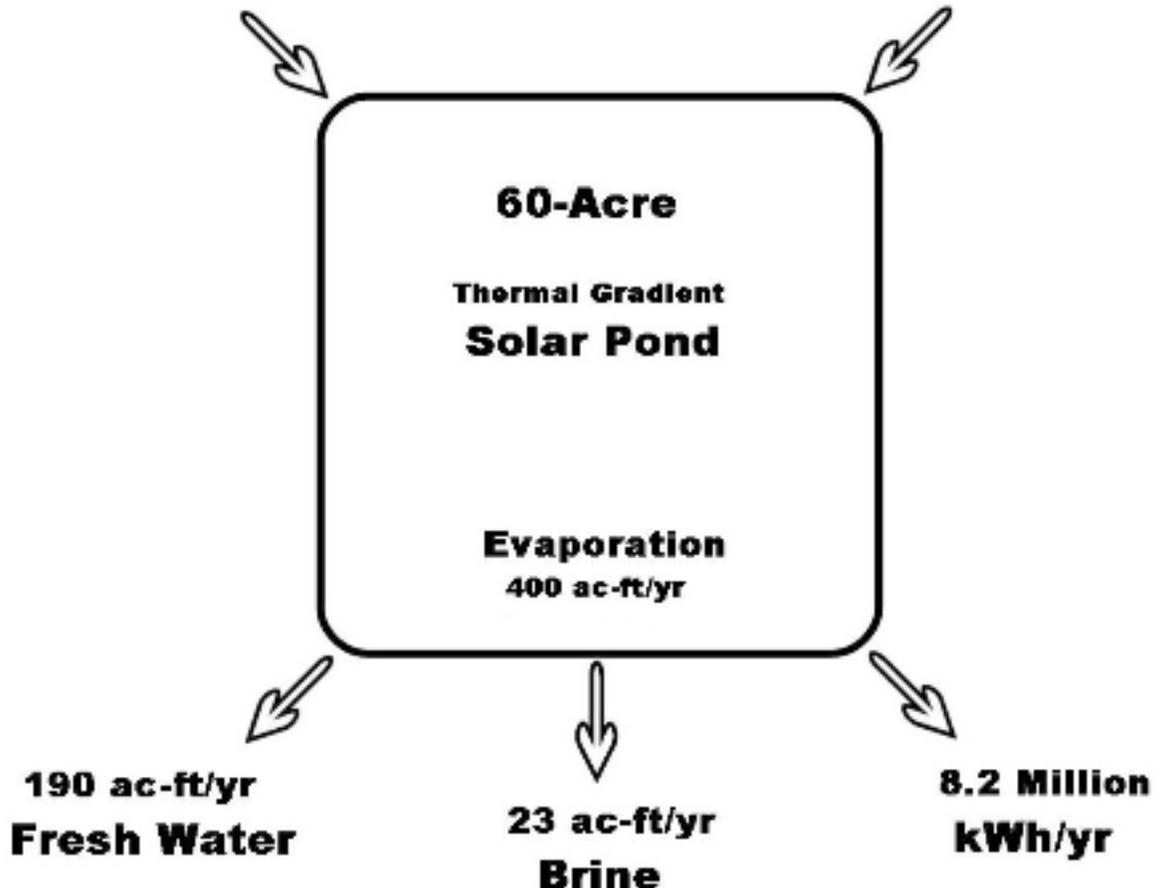
Solar Power&Water "Farm"

Available Saline Water

Such as 9,400 PPM Waste
613 ac-ft/yr

Solar Insolation

I = 1787 btu/sq ft/day



Not shown is our new technology low-pressure rotary expander steam engine which extracts the water and power from hot brine borrowed from the bottom of the pond. We believe our system will work, based on thermodynamics and our prior technology. So far nearly everyone else apparently considers our concept and plans to be mythical or science fiction. We don't mind, because we are patiently proceeding to build, test, and

demonstrate our system. Invisibility or a low profile is just fine with us.

Those of you who are anxious about future water supplies might find comfort in our system which we are convinced will work, since presumably Alexander Pope was right -- hope still springs eternal in the human breast.

We proposed a plan to restore the Salton Sea to full size and to any salinity including fresh, but we think our plan is either misunderstood or is considered too good to be believable.

We responded to Bureau of Reclamation's invitation to submit "comments" for dealing with the Wellton-Mohawk IDD agricultural drainage and the bypass flow, including what to do with the Yuma Desalting Plant. Presumably every citizen in the Lower Colorado River states concerned about water avidly read all the public comments posted by the Bureau of Reclamation, unless boredom set in before you got to ours. But then maybe ours seemed too good to be true and you dismissed them. We seem not only to have a mute button, but also an invisibility button.

I presented a plan to the Southern Nevada Water Authority Board of Directors on 2/16/06 to provide 400,000 ac-ft/yr, made available from Lake Mead, involving a swap with WMIDD but sourced from our systems installed in the Colorado River Delta and drawing water from the Gulf.

Our comments submitted to the Bureau of Reclamation reached beyond bypass matters to include meeting the annual 1.5 million ac-ft/yr treaty amount for Mexico with new water we would extract from the Gulf.

<http://www.usbr.gov/lc/region/programs/bypass/comments/solarpower1.pdf>

And we have outlined plans for augmenting the Colorado River by the amount missing from the 1922 Contract for the River.

And there are more plans.

We encourage implementing water conservation, but our system enables water conservation which dwarfs anything we have seen proposed.

We encounter conventional wisdom which says a system such as ours will not work. But conventional wisdom once said the Earth was flat.

I recently wrote "We are Solar Power&Water, with technology to produce both solar power and to extract water from saline sources. Solar energy is generally recognized as desirable. It is a candidate among renewables being developed for utilities to meet legislated Renewable Portfolio Standards in the effort to move toward energy independence. Moreover, energy from the sun is more than adequate. The U.S. DOE has been funded by the Congress to support the energy needs of the nation. Our technology is not on the DOE supported lists, so DOE declined to support our efforts to develop ours and said to look elsewhere. And water is out of the DOE's purview." Hence we are proceeding with our own meager funds. I think the money some of you spend to argue with one another would be better spent supporting our determination to test our system as soon as possible.

You may have noticed that as Solar Power&Water, we produce both power and water. And you may have realized that the power sales can amortize all costs and then produce continuing profit.

Our plans are complex, will require cooperation, and cannot be accomplished quickly. We have not shut down our web site yet; it doesn't seem to be of much interest except to us. Now please excuse me while I go get a nice cold drink of fresh water. And be

patient. If we are right, there will be plenty of water available for many regions worldwide.

Richard A McKay

rev2 9/4/06
rev3 6/5/08
rev4 3/25/14

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