

# **Technical Solutions To Water Shortages**

# Air Wells

Everywhere on Earth, even in deserts, the surrounding atmosphere contains at least some water. The quantity of water vapor contained within the air is commonly reported as a relative humidity, and this depends on temperature – warmer air can contain more water vapor than cooler air.

When air is cooled to the dew point, it becomes saturated, and moisture will condense on a suitable surface. An air well is a structure or device that collects water by promoting the condensation of moisture from air.

Designs for air wells are many and varied as reflected in that at least five dozen patents have been issued. Active collectors collect water in the same way as a dehumidifier. Although the designs work well, they require an inexpensive source of electricity to be practical. New, innovative designs seek to minimize the energy requirements of active condensers or make use of renewable energy resources.

Kiev, Ukraine's I. N. Frantsevich Institute of Problems of Materials Sciences has developed specially designed capacitors which absorb energy when subjected to a flow of electrical current – producing a cooling effect. All other known materials generate heat from electric current. Temperatures of -259 degrees Fahrenheit have been produced.

The leads from a 9-volt battery are attached to the corners of a tarot card-sized flat black sample of this material. Within 20 seconds, a layer of ice crystals covers the top surface. Within 30 seconds, a continuous cloud of frozen ice crystals begins to pour off the upper surface of the suspended card. This material could be used to extract abundant water from air with small amounts of electricity.

# Hydrosonic Pump

The hydrosonic pump is a mechanical rotating machine which converts plain water to steam at zero pressure without the need for hot surfaces and consequently without the buildup of scale. The process seems to be actually a form of fusion where collapsing microscopic bubbles momentarily create extremely high pressures and temperatures. This controlled cavitation generates shock waves.

The effect is immediate when the shaft rotates in contrast to boilers which often take hours to reach boiling temperatures. The efficiency of conversion of mechanical energy into heat energy is around 130%.

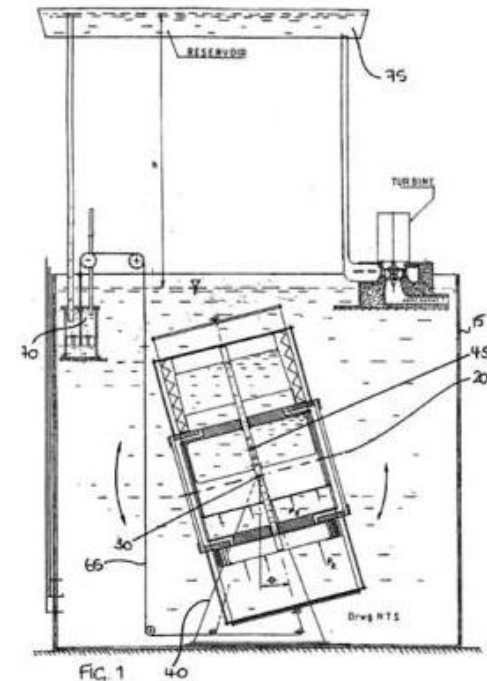
One application is to use a windmill to turn the shaft. Out of the nozzle emanates steam which drives a steam turbine to produce electricity. The steam then enters a condenser from which can be obtained potable water and hot water for space heating. The hydrosonic pump can also desalinate sea water and mineralized underground water.

# Spiteri Water Pump

When a body is submerged in water there is latent hydrostatic energy in place. The submerged Spiteri water pump efficiently converts this hydraulic energy into mechanical energy without fuel nor pollution. This mechanical energy is then used to pump water uphill into a reservoir. A hydroelectric power system utilizes the reservoir's waterfall to generate cheap electricity without fuel nor pollution. A Spiteri water pump can be placed in any water body in the world to produce energy 24 hours a day, seven days a week.

The Spiteri water pump could be combined with the hydrosonic pump to pump desalinated seawater into onshore reservoirs and water tanks.

The Spiteri water pump comprises of a housing containing a fluid. A pump motor is submerged within the fluid. The pump motor is pivotable within the housing about a fixed pivot point. A buoyant member is contained within the pump motor. A ballast member is contained within the pump motor. The ballast member contains a ballast tank. A transfer means is coupled to the buoyant member to transfer the upward movement of the buoyant member within the pump motor. And last, a pressure differential means is operable to move the ballast tank upwards within the pump motor.



# Water Purification with Electrical Coils

Larry Woods' LinkedIn profile states:

"I am driven toward the goal of free energy. I have the knowledge and ability to create it. If it takes power to operate we can provide that power without the need for input power. Our goal is to eliminate the use of fossil fuel, within the next 20 years.

LIMITLESS ENERGY TECHNOLOGIES is currently making molds for electrical coils. We now have proven designs for coils to be used world wide for HHO production and ozone for water purification and (oddly enough) pest control."

Larry Woods has also designed a 'magnetic vortex space engine' for space travel. See "Space Travel Innovations" in [www.padrak.com/vesperman](http://www.padrak.com/vesperman) or [www.commutefaster.com/vesperman.html](http://www.commutefaster.com/vesperman.html).

His fuel-less 5 kilowatts 'magnetic drive generator' will be for sale in 2015.

# Primary Water

Japanese laboratory experiments have shown that there may be up to five times more water deep underground than in all the oceans, lakes and rivers combined. Enormous quantities of pure virgin water can be located with the aid of dowsing and withdrawn from crystalline rocks – particularly hard desert rocks. Primary water originates through chemical processes deep within the earth.

Locating sources of primary water promising enough to justify the expense of drilling usually starts with dowsing and observation of geological and biological indicators generally associated with sources of primary water. Ground electrical resistivity measuring methods often help pinpoint narrow, conductive fractures in the underlying bedrock which serve as conduits for water generated at depth. A mining engineer has successfully located and drilled over 75 primary water wells in arid East Africa.

Near Damascus, Syria there is a spring which resembles an underground river several meters across which flows up and out of a limestone formation. **Its total flow has averaged about 132,000 gallons per minute at least since Roman times.**

Fifty miles northeast of Las Vegas the very short Muddy River apparently originates as beautifully clear primary water (shown in the photo).



# Etheric Weather Engineering

Some of America's native tribes were able to break up droughts by dancing counter-clockwise around a circle, or to stop rain by dancing clockwise around a circle. To illustrate, the summer of 1931 Nevada was suffering through a drought. An elderly Shoshone native American, Wagon Jack, suggested to the tribal members living in the vicinity of Austin, Nevada that they devote some time to a rain dance.

With considerable skepticism, native Americans from all over central Nevada showed up beginning August 14 for continuous rain dancing plus of course feasting and political meetings. On August 19, the skies clouded over and rain began coming down in torrents. After four days of heavy rainfall, flooding caused extensive damage. (Nevada Historical Society)

Etheric weather engineering researchers have demonstrated many times that weather control boxes or precisely machined metal objects similar in shape to cones, tin cans, handle-less frying pans, etc., when slowly turned by an electric motor (but not simply rotated on the axis of their hollow interiors), bore holes in the ether and cause weather upsets and changes.

# **Atmospheric Water Generation**

An unlimited supply of fresh water in the form of water vapor is present in the atmosphere. The Atmospheric Water Generation (AWG) process comprises of adding post-processing units to existing air conditioners and refrigeration units to produce potable water. The AWG business uses refrigeration processes to cause water to condense onto cold surfaces. The water is collected and processed for human consumption.

The AWG business plan is based on the sale of equipment to accomplish AWG. The cost to the consumer includes the initial cost of the equipment, plus the cost of the electric power to operate it.

The AWG units are functionally identical to air conditioners, dehumidifiers, freezers, etc. These other systems that condense water vapor typically waste the collected water. The AWG process adds a post-processing unit to a typical air conditioner to produce clean water made acceptable for human consumption. The AWG process is much better than other forms of producing potable water such as rivers, lakes, wells, processed sea water, etc.



# OASIS Machine

The OASIS Machine produces water by flowing air over a surface colder than the air's dew point temperature. A sketch and a list of components are shown below.

## Electric Power Unit

New technology, over-unity device, requires no external power or fuel.

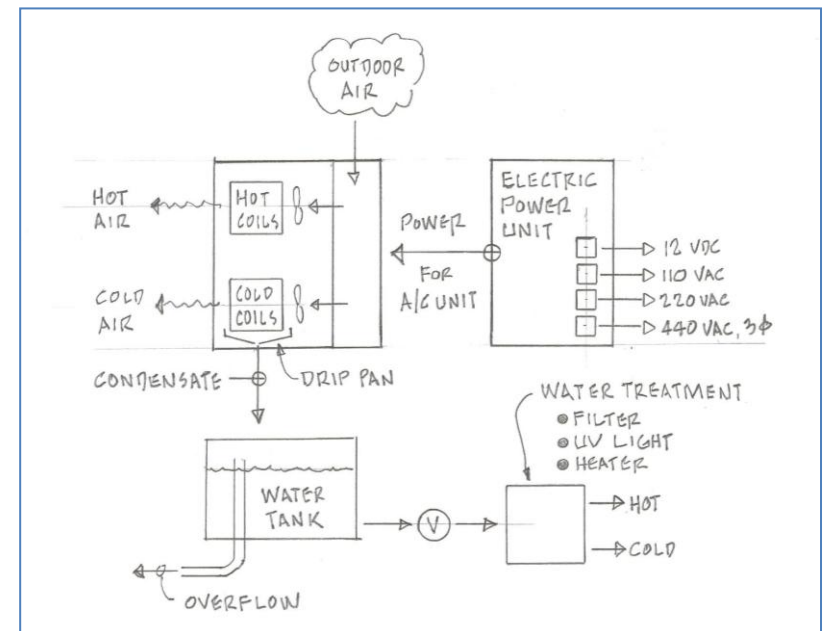
Power outputs 25-50 kilowatts, voltages as noted. Internally powers pumps, fans, UV unit, refrigeration unit, lights.

## Atmospheric water Generation (AWG) Unit

- Atmospheric water is condensed out of the air by a cold surface that is colder than the dew point temperature. Any commercially available refrigeration or air conditioning unit could work in this application.
- Filters, fans, cold coils, and condensate collection pan.

## Water processing unit

- Agricultural water does not require processing. It flows directly from the condensate collection pan into ponds and reservoirs.
- Potable water is filtered and treated with UV light.
- Hot and cold water is produced for cooking, drinking, washing, etc.



# Environmental Heat Engines

At least four different fuel-less environmental heat engines have been patented. These pollution-free engines absorb ambient heat to expand a working fluid such as Freon or ammonia and push pistons through sealed chambers – resulting in net rotary output power. When energy to make electricity is free, heat pumps can easily refrigerate the atmosphere and condense water from low humidity air – an air well.

Ken Rauen's superclassical cycle environmental heat engine has U.S. Patent No. 6,698,200 for "Efficiency Thermodynamic Engine". Rauen also invented the Rauen cycle environmental heat engine.

Ralph J. Lagow's "Method of Generating Power from a Vapor" has U.S. Patent No. 4,693,087. George Wiseman has invented his Wise cycle environmental heat engine.

Robert Stewart developed his 'Stewart cycle' environmental heat engine for transportation vehicles, electricity generators, and large-scale water lifters. His US Patent 4,033,136 is for "Vapor Actuated Power Generating Device". Stewart claimed that his fuel-less engine could lift Colorado River water from below Hoover Dam back up into Lake Mead, thereby increasing Hoover Dam's output of electricity. Stewart also proposed lifting water from the Columbia, Mississippi or Missouri rivers via a canal, generating electricity as the water flowed back downhill to the Colorado River.

# **Researchers Discover Massive Freshwater Reserves under the Ocean**

Researchers claim to have found 500,000 cubic kilometers of low-salinity water hidden beneath the seabed on the continental shelves around the globe.

The scientists claim that the fresh water has been discovered off Australia, China, North America, and South Africa. According to one of the researchers who discovered the fresh water, the volume of water found is a hundred times greater than the volume of water extracted from the sub-surface of the Earth since 1900.

Previously it was believed that freshwater aquifers under the seafloor only happened under special circumstances. The new research suggests that fresh water is common under the seafloor. The team says that these massive freshwater reserves were developed over hundreds of thousands of years when the average sea level was much lower than it is now. The freshwater was shielded from the salty ocean water by layers of clay and sediment.

# References:

Three files – 153 pages of “102 Electrical Energy Innovations”, 42 pages of “Stewart Cycle Environmental Heat Engine”, and 21 pages of “Ten Technical Solutions to the Lake Mead Water Shortage” – are available for free downloading at [padrak.com/vesperman](http://padrak.com/vesperman) and [commutefaster.com/vesperman.html](http://commutefaster.com/vesperman.html).