

# Press Release

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**SUBJECT: Absorption Chillers Decrease Global Warming when used jointly by Fossil Fueled Power Plants and our [BioWastes-To-Renewable Energy](#), [Biofuels](#), [Organic Foods](#), and [Water Independence Technology](#).**

[WaterSmart Environmental, Inc.](#) recommends the use of absorption chillers to replace cooling towers in the normal operation of fossil fueled power plants. Cooling Towers are necessary to cool the very hot water produced when steam condenses during the generation of electricity. Before the condensed hot water can be reused to make additional steam it must first be cooled to ambient temperature. After cooling the water must undergo water treatment to remove suspended particles and dissolved air before being reused.

Cooling Towers cool water using both sensible and latent heat transfer. Latent heat transfer occurs during evaporation of some of the water to the environment. **This water vapor contributes to global warming and is regarded as more harmful than either methane gas or carbon dioxide gas.** The permanent loss of water vapor from a cooling tower requires a continuing supply of makeup water from either surface water or underground aquifers. The availability of makeup water can introduce a serious construction permit issue.

Substituting a cooling tower with an absorption chiller in combination with our [BioWastes-To-Renewable Energy](#), [Biofuels](#), [Organic Foods](#), and [Water Independence Technology](#) eliminates:

- Climate Change due to evaporative water loss to the environment,
- Climate Change loss of associated heat (Btus) to the environment,
- The opportunity to convert the saved heat (Btus) into additional electricity, and
- The water makeup requirements and its associated permit issues.

To encourage use of this technology throughout the fossil fueled power plant industry our company is willing to supply the required absorption chilling at its cost in exchange for the opportunity to create additional electricity from the saved heat (Btus) that would have otherwise been lost to the environment. The value of the additional electricity easily justifies our return on investment. The saved heat (Btus) would be converted into electricity through steam turbine generation using a process called combined heat and power (CHP) technology. The capital cost savings to the power industry due to the elimination of cooling towers will make new projects easier to permit and finance.

WaterSmart Environmental is marketing its Kyoto Protocol compliant wastes-to-energy technology on an economic development platform to concentrated animal feeding operators and to municipalities. Animal farmers benefit by purchasing biodiesel, electricity, and natural gas (methane) at reduced costs. Municipalities also benefit by making biodiesel, electricity, natural gas, and potable water available to its citizens and businesses at major discounts and in the case of water, for free. The technology is marketed on a build-own-operate basis thereby eliminating the necessity for local sales and property tax increases since project financing is entirely secured from the financial marketplace. Municipalities that embrace the waste-to-energy technology automatically become zero waste-to-landfill communities. The waste-to-renewable energy technology has been slowly developed over the last 10 years. It is just now being introduced to the international marketplace.

The technology has the clear potential for making every single city throughout the world energy and fuels independent while reducing oil and natural gas imports. The technology will also permit every single city throughout the world to improve water and wastewater treatment infrastructure while creating jobs and investment opportunities. The waste-to-energy technology can also be applied to Sugar Cane Mills as well as Pulp & Paper Mills with equal success. Both types of mills become energy, food, fuels, and water independent while significantly increasing profits from routine operations. In the case of Sugar Cane Mills temporary and seasonal jobs turn into full time better paying jobs. **Widespread use of the technology carries with it the potential for contributing substantially to the reversing of global warming.**

*WaterSmart Environmental, Inc.* is a provider of waste-to-energy, food independence, water independence, and energy independence technologies and a manufacturer of highly engineered water purification components and systems. The company designs and builds a wide variety of water treatment equipment including packaged water and wastewater treatment plants, UltraPac™ aerobic package plants, OAT™ Process anaerobic digesters with associated energy production, aerators, filters, PuriSep™ and SmartWater™ oil/water and solids/liquids separators, RainDrain™ perimeter trench sand filters for stormwater runoff, dissolved air flotation separators, air strippers, complete skid assembled aqueous waste treatment plants, FilterFresh™ skid mounted potable water production plants, skid mounted wastewater treatment systems for laundromats, commercial laundries, and car/truck wash facilities with water reclamation and reuse, softeners, demineralizers, activated carbon treatment equipment, and water purifiers for domestic and international markets.

*Worldwide Promoters of Renewable Energy, Organic Foods, Biofuels,  
& Water Independence Technologies by and for the Common Man*

