

# Press Release

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## **Subject: Water And Energy Independence Technology For The Pulp & Paper Industry**

**WaterSmart Environmental, Inc.** announces the scientific development of Kyoto Protocol compliant water and renewable energy independence for the Kraft pulp & paper industry. All wastes are converted into methane gas and other co-products. The methane gas is beneficially used to generate electricity. Most of the sulfur containing compounds are removed through sulfide precipitation chemistry. The DAF units are de-commissioned and the wastewater treatment plant is converted into a waste-to-renewable energy facility. Lignin and wood wastes are extracted from the brownstock washer effluent and diverted to the anaerobic digester. Rather than utilizing the non-condensables as a reburn fuel, these remaining sulfur compounds are removed through biofiltration technology. The use of non-condensables as a reburn fuel always produces extremely stinky sulfur oxide emissions and associated environmental complaints. All condensables, sawdust, biofiltration solids, and mill wastewaters are anaerobically digested to produce methane gas, carbon dioxide gas, organic fertilizer, liquid fertilizer concentrate, and reverse osmosis water. There are zero wastes that require landfill disposal. All waste-to-energy co-products are used or sold. All existing bleach processes may be continued without process change. The technology achieves 100% water recycling while producing 100% of the mill's electricity and steam requirements. Since all gaseous discharges are eliminated full compliance with all air quality requirements is achieved. Because all liquid discharges are also eliminated full compliance with liquid discharge requirements is also achieved. A service fee is charged for waste management services while required gas, electricity, and steam are provided to the mill on a "no charge" basis. The mill also obtains all of its recycled water requirements as another freebie. The technology is being marketed on a build-own-operate basis. If a mill provides 100% of required non-recourse project financing it becomes an equity owner of the for-profit waste-to-energy facility thereby providing a significant mill investment opportunity while achieving water and energy independence in full compliance with all environmental requirements. Project financing is repaid from routine operations over a 5-7 year period. Highly efficient anaerobic digestion coupled with highly efficient combined cycle electricity generation makes free water and free renewable energy independence possible without capital cost to the waste generator. **Wow!**

**WaterSmart Environmental, Inc.** is a provider of waste-to-energy 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.

