

# Press Release

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## **Subject: Energy, Food, Fuels, And Water Independence For Latin America**

**WaterSmart Environmental, Inc.** announces a series of energy, fuels, and water independence projects in various municipalities and industries throughout Latin America. The energy consists of electricity. The fuels consist of biodiesel, E85, compressed natural gas (CNG) and liquefied natural gas (LNG). Biodiesel is a replacement fuel for petroleum diesel. E85 is a blend of 85% ethanol and 15% gasoline. In one municipality with a large informal sector and a lack of service infrastructure, the energy, fuels, and water will be made available to the citizens and businesses of El Alto at a significant discount from the national network which has yet to be installed in the area. Several Cummins power generators will be installed along with several large ponds which will produce mercury-free fish and microalgae. The microalgae will be made into ASTM certified biodiesel fuel. The wastes treated will include municipal solid wastes, municipal sanitary wastewaters, fish production and processing wastes, and biodiesel production and processing wastes. All wastes will be anaerobically digested to produce methane gas and several other beneficial co-products. Some of the methane gas will power the long lasting Cummins natural gas generators. The remaining methane will be sold to the local marketplace in competition with natural gas suppliers at a significant discount from retail. Some of the methane will also be used to supply compressed natural gas (CNG) and liquefied natural gas (LNG) to area municipalities. Since there are no wastes remaining that require landfill disposal the municipality becomes a zero waste-to-landfill community.

The waste-to-renewable energy technology fully complies with all Kyoto Protocols on climate change. Rather than discharging the exhaust carbon dioxide from the power generators to the atmosphere this gas is beneficially converted into marine plants and microalgae through photosynthesis thus duplicating the food chain found in the oceans of the world. EPA's National Renewable Energy Laboratory has successfully researched microalgae-to-biodiesel for some 15 years. Cummins is an established worldwide supplier of highly reliable distributed generation equipment. Because of the simultaneous use of both combined heat and power coupled with combined cycle power generation the efficiency of energy production approaches 100%. It is this extreme efficiency that creates very competitive electricity, fuels, and potable water. Upon full implementation the waste-to-energy technology will provide 100% of the electricity, natural gas, biodiesel fuel, E85, LP gas, CNG, LNG, and potable water requirements of each municipality at significant discounts. Each project is expected to create hundreds of permanent jobs.

The technology is being marketed on a build-own-operate basis. Since project financing is obtained from financial markets there is no need to raise property or sales taxes to pay for the project construction costs. 50% of the annual profits from the waste-to-renewable energy facility will be donated to El Alto to enhance employee pay and to help fund municipal projects.

This important technology has taken some 10 years to develop. As the technology is implemented in the marketplace dependency on imported oil and coal fired power plants will both diminish. It is believed that the technology will gradually become the energy policy of the entire world by default.

Governments in South America have long been unable to deliver economical water and electricity services to their people. Over the last 15 years many Latin America countries began privatizing their utilities in hopes of improving services while reducing rates. The privatized companies have had to absorb the debts and the lack of infrastructure investment of the former state industries and, as a result, have continued to raise utility water and electricity rates. A number of municipalities in Latin America have turned with success to the cooperative model to run their municipality public services.

In one municipality where the company is about to undertake the feasibility study, the program will begin by building very large microalgae ponds for the purpose of producing biodiesel fuel. Upwards of 75,000 gallons of biodiesel can be produced per hectare each year with around the clock production. Sufficient biodiesel will be produced to satisfy the entire demand of the municipality and the residents. It will be sold at a significant discount consistent with the sales of electricity, natural gas, E85, LP gas, and potable water. Wastes that will be converted into energy and fuels include municipal solid wastes, sanitary wastes, industrial wastes, biodiesel production wastes, fish farming & production wastes, and food production & processing wastes. Greenhouse farming will be used to grow food throughout the year using photosynthesis and intercropping to increase product yields. A multinational company is proposing investment in the agro-industrial greenhouse production which will create permanent jobs for local residents as well as provide them with currently non-available services such as housing and medical care for themselves as well as their extended families.

The quite amazing success of the technology is made possible by extremely efficient anaerobic digestion technology along with extremely efficient combined heat and power (CHP) technology coupled with extremely efficient combined cycle electricity generation technology. By efficiently converting wastes into energy the technology permits the direct sale of all co-products at a significant discount from existing retail prices.

*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, Pur-iSep™ 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.

*Specialists in Water and Wastewater Treatment Featuring  
Next Generation Wastes-To-**Renewable Energy** Technologies*

