



TAXIS RESOURCE SYSTEMS

Sustainable Business Solutions for Environment, Energy & Development

TRS is a wholly owned business unit of Taxis Group, LLC

OVERVIEW



Since its founding, Taxis Group has helped industrial, governmental, NGO and commercial organizations manage their environmental, safety & health risks and energy management needs with sustainable business solutions; specifically matching the best technology solutions to each client's unique business and environmental challenges.

Taxis Group, LLC and technology partner Carew Energy and Water, LLC offer simple yet effective waste water, solids management and energy technologies for municipal, agricultural, and marine applications. Our innovative, yet proven technologies are custom designed to meet the specific needs of each project



CLIENT FOCUS – CRUISE SHIPS

As a cruise ship industry leader, you know that the environmental aspects and impacts of your business have never been more closely scrutinized. Regulators, environmental advocacy groups, lenders, and public interest groups are all intertwined in a process that can potentially have material impact on your image and financial position.



The problems are real but our solutions are effective and economical. Whether your challenges involve sanitary waste water, gray water, bilge or ballast water Taxis Group and Carew Energy and Water provides environmental technical, regulatory, and EIS management support to keep your business on course.

Our Technology Approach

Taxis Resource Systems and Carew Filtration and Energy Systems brings innovative yet proven environmental technologies, and "re-deployed" technologies from other industrial processes directly to the owner of an environmental liability or organizations desiring to minimize their environmental footprint while improving their financial position – including asset owners, PRPs, liability underwriters, or process facilities

confronting significant performance, regulatory and/or economic challenges.

- *Waste Water Processing w/o Residuals Liabilities*
- *Residuals Management and Sale of By-Product*
- *Waste Water Liability to Drinking Water Resource*
- *Gasification of Waste Water Solids and Energy Production*
- *Hydrocarbon Fuel Opportunities*
- *Solid Waste to Fuel Options*

Carew Filtration & Energy



Carew Energy & Water, LLC is developer and sole owner of various filtration technologies and developing gasification/fuel cell technologies which, when use alone or in combination with select complementary technologies, have the capability in the field to process municipal, agricultural, marine waste water, and most solid waste streams. CFS technology clarifies waste water streams, removing solids, oil and grease and biological contaminants to sub-micron range, without chemical treatment; extracts 99.99% total solids, concentrates carbon-containing components for energy generation and/or hydrocarbon condensation and biofuels production. (See next page – Carew Energy Solutions for additional information about this exciting developing technology offering.)

The resultant effluent may be further purified for human or animal consumption, or applied to the environment with no adverse impact to the receiving medium.



Our management systems approach enables tight integration of global, federal, state and community standards and expectations with a well-managed environmental "footprint" -- ensuring an long-term regulatory compliance and attainable financial savings. Capital costs for systems with comparable process rates can be from 30% to 50% of traditional treatment systems installed.

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Carew Energy Solutions

Carew Energy possesses patent rights, and has field validated its technology by processing agricultural-concentrated feed lot waste waters using its exclusive self cleaning combination centrifugal / mechanical filter in which the filtration apertures (pore sizes or filtration free spaces) can be electronically or pneumatically adjusted from a coarse range to micron and sub-micron sizes.

In the present "waste to energy" and fresh water representative application, the original variable self cleaning filter is modified to both filter and dewater liquid municipal/ agricultural/industrial liquid waste water and sludge such that the extracted solids have a high fuel value.

For economic reasons the high Btu solids will subsequently be blended with curbside

The patent-pending Carew centrifugal filter and filter press technology will feed its dried waste solids into a gasifier which solids or other bio-waste and fed directly into a gasification apparatus for electric power generation. This system converts any carbon based solids into hot gases which drive an electric generator.

As a result of the waste carbon extraction and drying, the Carew system facilitates the conservation of energy in the carbonaceous waste streams as electric power which purifying the processed waste water.

Of greater long term importance is the new unpublished work on hydrocarbon synthesis with modified versions of the Carew filtration and energy system technologies to provide the production of synthetic hydrocarbon fuels for the transport industry.

