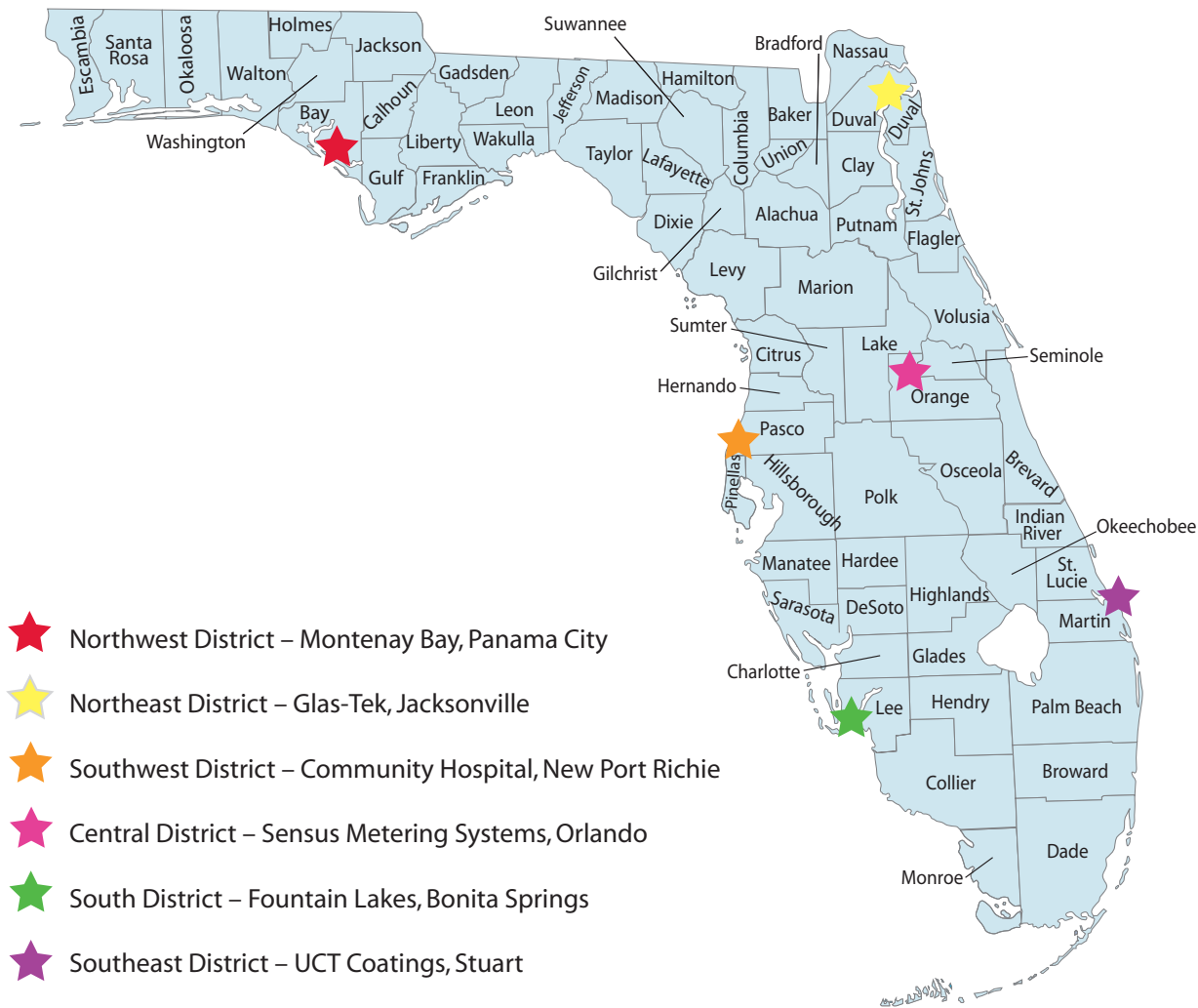


# Success Map

Businesses can potentially have huge impacts on the health of Florida's environment. The companies featured here have made a commitment to reduce pollution. Through their individual efforts they have increased compliance, reduced energy usage and conserved water while experiencing significant cost savings and long-lasting efficiency. Pollution prevention is smart business.



## Northwest District

### Montenay Bay

Montenay Bay LLC is a waste-to-energy facility. The facility receives and processes approximately 500 tons per day of municipal solid waste (MSW). The facility consists of two Westinghouse rotary combustor boilers and a 13 MW turbine generator. As the waste is incinerated, the heat energy produces steam which is used to drive the turbine generator. The electrical power is sold to the local utility company; the ash is removed using conveyors and trucks that transport it to the Bay County Landfill.

The facility has a carbon monoxide (CO) limit of 800 parts per million (ppm) per hour for each unit. The goal has been to reduce CO emissions to an average of less than 250 ppm per hour. In 2003, a secondary air system was installed on both combustor units. The system, which consists of fans, duct work, dampers and control equipment is designed to recycle fresh air into the units and reduce CO levels during combustion of the MSW. Levels were reduced from 241.23 tons in 2001 to 185.69 tons in 2003.



## Northeast District

### Florida Glas-Tek, Inc.

Florida Glas-Tek, Inc. manufactures housing units for water filtration and pumping systems. The manufacturing process involves gel coat, fiberglass and fiberglass resin and uses methyl ethyl ketone peroxide (MEKP) as a catalyst to set the gel coat and resin in the mold. After the fiberglass has hardened, the housing unit is removed from the mold, the edges are cut and sanded, and necessary holes are drilled. The completed units are packaged and shipped to the customer.

The manufacturing process generated approximately 160 gallons D001/F003 waste acetone per month, which caused disposal problems for the company.

As a solution, Florida Glas-Tek, Inc. installed a new type of resin spray gun using fiberglass chop guns instead of hand lay-up. The new equipment only needed cleaning once a day reducing the amount of waste acetone generated by more than half to approximately 55 gallons a month.



## Southwest District

### Community Hospital

Community Hospital became a *Hospitals for a Healthy Environment* (H2E) partner to publicly acknowledge their commitment to the environment. Initially they began eliminating mercury by purchasing digital manometer cuffs and thermometers. Next they replaced mercury thermostats with digital and developed a purchasing policy that focused solely on mercury-free equipment, limiting any new mercury from slipping into the hospital.

Their decision to discontinue the purchase of disposable plastic (needle) containers and institute a reusable "sharps" container program has saved more than \$68,000 in just one year, and significantly reduced the release of air pollutants. In order to reach their 2006 goal of a 20 percent recycling rate, the hospital has added computer equipment to their list of other recycled items including x-ray film, fluorescent lamps, motor oil, toner, ink jet cartridges, batteries, reusable linens, wooden pallets, frying oil, paper, glass and cardboard.

Community Hospital is concerned about the public and the patients they serve. By keeping their facility clean and aesthetically pleasing for their patients, visitors, staff and physicians, they help reduce the occurrence of any nosocomial (hospital acquired) infections while providing a healthy atmosphere to recuperate.



## Central District

### Sensus Metering Systems

Sensus Metering Systems (Sensus) refurbishes old water meters to new meter standards. The brass components are cleaned using a bead blasting process and then reused. A bead medium is sent at high speed through a nozzle, which cleans the surface by bouncing off the brass casting.

An automatic ceramic bead cleaning cabinet used by the facility maximizes media usage and reduces waste generation through a filtration and collection system. The equipment processes about 85 percent of the products, yet it generates only 50 percent of the waste. A secondary manual glass-bead cabinet used to clean only the remaining 15 percent or difficult parts, contributed the other 50 percent of the waste.

Sensus upgraded the secondary system to a newer manual cleaning cabinet that automatically captures, separates and filters the used glass beads. The beads are reused in the process for a number of cycles before they become waste. The upgrade reduced the facility's hazardous waste generation rate by 66 percent.

The amount of raw bead use has also been reduced by 66 percent. The facility is saving \$6,000 annually on reduced bead purchasing and waste disposal costs! They have also reduced their generator status from Large Quantity to Small Quantity and are no longer required to submit a biennial hazardous waste report.



### South District

#### Fountain Lakes Sewer Corporation Toilet Replacement Project

In an effort to reduce the amount of wastewater discharging to the wastewater treatment plant, Fountain Lakes Sewer Corporation instituted a toilet replacement project at the Estero Woods Apartment Complex in Bonita Springs. The 148 unit apartment complex was built in the late 1970s when standard toilets consumed as much as 5-7 gallons per flush. In 1982 state and federal laws required 3.5 gallons per flush or less, with a reduction to 1.6 gallons per flush in 1992 for new construction and toilet replacements.

Fountain Lakes Sewer Corporation replaced 189 toilets at a cost of approximately \$34,000. Comparing water bills for the first two full months of operation with the previous three years, Fountain Lakes estimates a 24 percent reduction in water usage (nearly 3,300 gallons a day) and corresponding decreases in the wastewater discharged to the plant. Based on this preliminary data, cost savings for water consumption alone are estimated at \$700 a month for a payback period of about four years.



### Southeast District

#### UCT Coatings, Inc.

UCT Coatings, Inc. has a manufacturing plant that processes and plates various metal parts using a patented nickel-boron electroless plating process. Their “UltraCem” product offers a good alternative to chrome-based electroplating and is renowned for its beneficial properties in the defense, automotive, commercial and aerospace industries.

As a large quantity generator of hazardous wastes (D002 – electroless plating bath and waste nitric acid), the facility produced a high volume of potable water used as make-up water.

To resolve this problem, UCT Coatings, Inc. installed a CAST® Wastewater and Chemistry Recovery System to distill and recycle rinse water allowing it to be reused as make-up water. All plating solutions are recovered and reclaimed and nickel concentrate is collected and sold to a nickel reclaimer.

The changes UCT Coatings, Inc. made this year have saved at least 150,000 gallons of potable water, more than \$22,000 in disposal fees and about \$900 in wastewater charges.

The Florida Pollution Prevention Program offers free technical assistance to Florida’s industries, businesses and government agencies.

We offer the following services:

- Pollution prevention research
- On-site technical assistance
- Telephone consultations
- Workshops & speakers
- Fact sheets & best management practices

To help you:

- Reduce worker exposure
- Decrease long-term liability
- Reduce disposal and pollution control costs
- Minimize raw material consumption
- Reduce energy usage

If you are interested in the economic and environmental benefits of implementing pollution prevention in your operations, please contact your local coordinator.

**Florida Pollution Prevention Program**  
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Florida Pollution Prevention Success Stories

