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Spring 2010

# SantaClara2011

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## About Santa Clara & the 2011 USCC Conference HQ

### The Santa Clara Hyatt Regency

Experience luxury and a premier 2011 USCC Conference location at the newly refreshed San Clara Hyatt Regency hotel. Located in the heart of Silicon Valley, the Conference HQ is attached to the Convention Center and right across the street from California's Great America Theme Park. Spacious accommodations feature sweeping views of the valley, Wi-Fi & Internet access and oversized work desks. Treat yourself to three inviting restaurants offering tantalizing Sushi, classic American or Mediterranean cuisine.

The sights of the area are yours to discover from the USCC Conference HQ. Perfectly situated in the heart of this exciting area, you'll find the museums, sports arenas and entertainment of Santa Clara and San Jose just minutes from our conference hotel. Take in a show at one of the theaters, enjoy myriad museums or cheer on one of the local professional teams. With California's Great America Theme Park right across the street, you don't have to travel far from the Silicon Valley Hyatt to find a fun time.

### California's Great America

Looking for an exciting place to take your friends or family? California's Great America theme park is located right across the street from Hyatt Regency Santa Clara. Enjoy their famous Thrill Rides, Family Rides, Nickelodeon Central, Live Shows and Boomerang Bay Waterpark Resort, or experience the new FireFall. Fall head-over-heels! This new thrill ride will take 40 brave riders to a height of 60 feet, then subject them to 360 degree vertical arcs as they twist, turn and spin through both fire and water effects.

### Wineries

The convenient location of Hyatt Regency Santa Clara puts the area vineyards within easy reach.

### Sporting Events

The Silicon Valley makes getting to a game simple. Take in a local college game or hockey game nearby, or head up to the Bay Area, just an hour away, for a professional football game.

## USCC Member Profile—Renewable BioSystems, LLC

Renewable BioSystems, LLC of Fairfield, NJ (RBL) has licensed the North American rights to manufacture and market a technology with significant waste to energy conversion metrics. The machine was originally developed in England and is successfully operating at three sites in the United Kingdom and Germany. One of the machines has been successfully operating at a 50 ton per day composter in England for two years.

RBL is manufacturing all North American based machines in the US. RBL is an independent spin-off from Control & Power Systems, Inc. of Fairfield, NJ, a turnkey engineering/controls/fabrication firm, with a successful 30-year track record in the pharmaceutical, biofuels, specialty chemical, wastewater, and material handling industries ([www.c-p-s.com](http://www.c-p-s.com)).

### The oil extraction machine processes up to 15 metric tons per hour of organic waste such as:

- The food residual portion of municipal solid waste
- Waste from food factories and supermarkets
- Offal from livestock processors
- DAF sludge
- Fish residuals

The technology mechanically converts varying percentages of this waste into oil that can then be further processed into ASTM certified biodiesel, used as component of livestock feed or to generate energy. In addition to the extracted oil, water and solid waste are also separated. The water and solid waste residuals can be most efficiently commercially composted.

### The oil extraction technology that RBL has licensed offers the following additional advantages for composters and the US economy:

- The removal of the oil before composting speeds the composting process as organic materials compost faster without the oil
- The amount of material tipped into the composting facility can be increased because composting occurs faster and because the oil is removed before composting occurs
- The efficiency of the technology and the small footprint make it possible to create a new revenue stream from the extracted oil on site
- The machine produces renewable feedstocks for ASTM biodiesel production that do not compete with or adversely affect food costs by using currently untapped waste streams as raw materials
- The technology decreases traditional dependence on foreign petroleum sources and expensive new exploration options
- Raw material acquisition strategy is complimentary to and supports the existing infrastructure of the composting model
- Maintenance contract, local service technicians and remote telemetric monitoring, all provided by RBL, insure maximum up-time performance

### Potential RBL Sites/Customers

Composters, Livestock Processing Plants, Oil Seed Crushers, Renderers, Anaerobic Digesters, Food Manufactures, Biodiesel Plants

## Machine Size Availability/ Annual Oil Extracted

MACHINE CAPACITY	ANNUAL OIL PRODUCTION ASSUMING 12% OIL CONTENT (24/7/365 X 80%)	ADDITIONAL GROSS REVENUES AT \$1.50/GALLON
15 Metric Tons/Hour	3,600,000 gallons	\$5,400,000
10 Metric Tons/Hour	2,400,000 gallons	\$3,600,000
5 Metric Tons/Hour	1,200,000 gallons	\$1,800,000
3 Metric Tons/Hour	720,000 gallons	\$1,080,000

### Oil Quality

- Free Fatty Acids < 2% from offal
- Free fatty Acids varies for other raw materials
- Moisture < 1%
- Impurities < .5%
- Converts to EN and ASTM Biodiesel
- Can potentially be used in livestock feed
- Can be burned to generate energy

### Technical yield

Approximately 95% of available fat is extracted as oil

### Typical fat/oil content of waste materials— from existing British trials as a % of input weight

- General Food Waste: 8% to 26%
- Dough and Pie Waste: 26%
- DAF Sludge: 8% to 30%
- Swine Bones: 12%
- Chicken Offal: up to 34%
- Swine Offal: 24%
- Lamb Offal: 32%

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