

# Organic Waste Recycling System

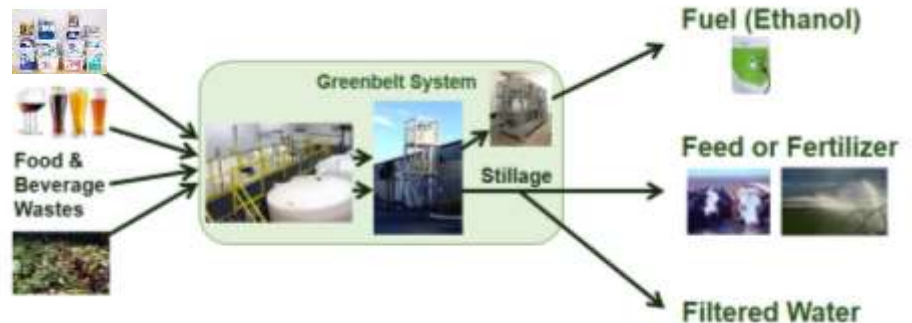
end-to-end modular ethanol production technology

*"After an international search, choosing Greenbelt Resources as the partner for developing our bioenergy facility came easily due to their impressive technology and versatile business model. By adding this system we will gain added value...while we also begin to achieve a measure of local energy independence."* - Larry Walsh, Director, Standard Ethanol Pty Ltd.

Greenbelt Resources is an innovator of sustainable energy production systems that delivers modular solutions designed for *localized* processing of *locally* generated wastes into *locally* consumed products. The small-scale, end-to-end modular systems designed, engineered and implemented by the Company, enable production of commercially viable (without subsidies) advanced biofuel (bio-ethanol) by fully recycling food, beverage and other cellulosic wastes into sellable products: fuel, feed, fertilizer, and filtered water.

Greenbelt technology recycles food and beverage "wastes" into the four F's:

**Fuel, Fertilizer, Feed & Filtered Water.**



Distillation & dehydration modules installed at the University of Florida Stan Mayfield Biofuel Center

### Potential Feedstocks

Dairy Process Waste; Food Industry Waste; Public Food Waste; Beverage Waste; Brewery and Alcohol Wastes; Ag Industry Wastes; Advanced Biofuel Crops; Island Communities; Developing Countries.

### Patent Pending Design

The *patent pending* membrane based ethanol dehydration module can remove water from process ethanol allowing the "dry" ethanol to be recycled for repeated use at a fraction of the current industry standard cost and energy consumption. Markets include: Advanced Cellulosic Demonstration Plants; Chemical Manufacturing

**"Greenbelt has the most extensive knowledge of using membrane technology in the ethanol dehydration process in the U.S."**

**Dr. Masanobu Aizawa**

GM of Research & Development Strategy, Hitachi Zosen

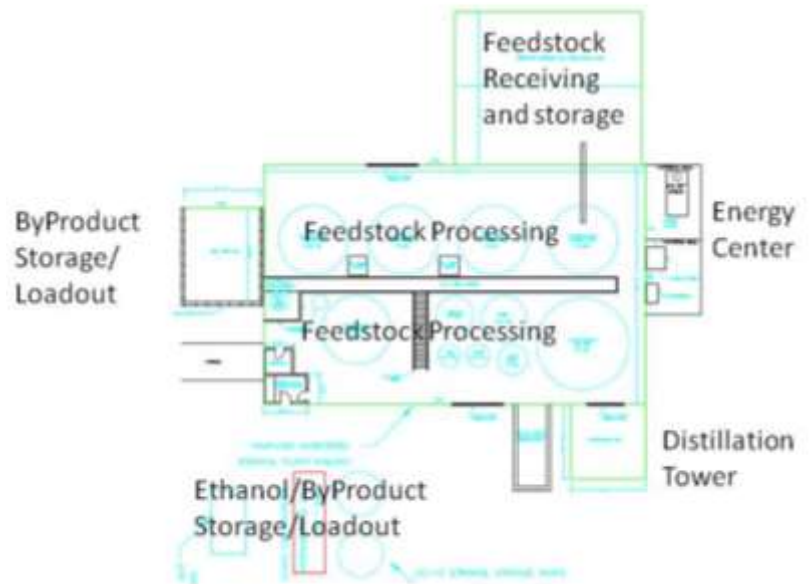


Client inspection of distillation module – reflux landing.

***“Installing the distillation solution as part of our innovative and ground-breaking system helps ensure that we ...achieve viable biofuel as one of the byproducts of our process. Greenbelt and Diversified have proven to be solid partners...”***

- Lonnie Ingram, PhD | Director Florida Center for Renewable Chemicals & Fuels at the University of Florida.

## Sample Layout of Waste – to – Ethanol Plant



## CAPABILITIES – INPUTS/OUTPUTS

- Capable of processing wide range of feedstocks
- Flexible product output: biofuel to industrial grade (200 proof)
- Minimal energy consumption/Maximum efficiency via unique design
- Air cooling standard on dehydration module (water cooling optional)
- Modules sold as complete system or separately
- All modules capable of delivery via standard container transport
- Complete systems deliverable in as little as seven months
- System footprints ranging from 3,500 sq ft to 12,000 sq ft
- Capacity options: from 50,000 GPY to 3,000,000 GPY

**About Greenbelt Resources Corporation:** Greenbelt Resources Corporation™ is an award-winning provider of sustainable energy production systems focused on delivering modular solutions that enable localized processing of locally generated waste into locally consumed products. The Company designs, develops and implements technology that makes production of advanced biofuel reliable, practical and efficient. Controlled by proprietary automated controls, the Company's small-scale, end-to-end modular systems convert food, beverage and other cellulosic wastes into commercially viable advanced biofuels (bio-ethanol), animal feed, fertilizer and filtered water. For more information visit [www.greenbeltresources.com](http://www.greenbeltresources.com).