

HARVEST POWER, INC.  
EPC SERVICES FOR WET AD AND  
NUTRIENT RECOVERY IN FLORIDA  
ORLANDO, FLORIDA



## Project Description

On May 19, 2014, Harvest Power unveiled its Energy Garden in Central Florida, an organics management and renewable energy facility that is the first of its kind in the U.S., converting multiple streams of organic waste into renewable biogas and natural fertilizers. The anaerobic digester combines a unique set of proven technologies and diverts more than a hundred thousand tons of waste from Central Florida landfills each year.

Located within the Reedy Creek Improvement District (RCID), the Energy Garden uses anaerobic digestion to produce renewable biogas. When operating at full capacity, the facility processes more than 120,000 tons of organic materials annually while producing 5.4 megawatts of combined heat and power. Included in this project were a 700 cubic meter bolted steel Mix Tank with vertical mixer, two 4500 cubic meter bolt steel CSTR Digester Tanks with vertical and submerged mixers, a 4000 cubic meter bolted steel Post Digester tank with inclined mixers and a Sattler gas storage membrane system, a 10,000 gallon fabricated steel buffer tank, and a 1000 cubic meter bolted steel tank Nutrient Removal Bioreactor " Harvest Power's Energy Garden helps businesses and communities across Central Florida reduce and reuse organic material, increase renewable energy production and revitalize soil to boost local agriculture. Restaurants, hotels and food processors throughout the region are now able to send food scraps to the Energy Garden. Walt Disney World Resort, located within RCID, is the facility's first customer with additional businesses in surrounding communities signing up every day.

For more information on this project, visit  
<http://www.youtube.com/watch?v=1jLSaiZhRyo>.

## At a Glance

Notice to Proceed:  
July 18, 2012

Contract Amount:  
\$25M

Completion Date:  
December 11, 2013

MGD:  
12

Owner:  
Harvest Power

Engineer Contact Info:  
ENVIRON and PMC Bio Tec

