

US EPA ARCHIVE DOCUMENT



RealEnergy, LLC

An Energy Facilities Development Company



Vienna Biogas by Ros Roca

CHP
Renewable Gas
Renewable Electricity
Renewable Transportation CNG Fuel

Organic Fertilizers
Landfill Diversion
Recycling
Carbon Destruction

September, 2012



DISCLAIMER

The investment of funds in RealEnergy involves a number of significant risks and is suitable only for persons who do not have a need for liquidity in their investment and who can afford to lose their entire investment.

Forward Looking Statements

This document includes “forward-looking statements” within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934 and are intended to be covered by the safe harbors created thereby. These statements relate to future events or to our future financial performance. In some cases, you can identify forward-looking statements by terminology such as “may,” “will,” “should,” “expect,” “plan,” “anticipate,” “believe,” “estimate,” “predict,” “potential,” or “continue” or the negative of such terms or other comparable terminology. These statements involve known and unknown risks, uncertainties, and other factors that may cause our or our industry’s actual results, levels of activity, performance, or achievements to be materially different from any future results, levels of activity, performance, or achievements expressed or implied by such forward-looking statements. Although we do not make forward-looking statements unless we believe we have a reasonable basis for doing so, we cannot guarantee their accuracy; and actual results may differ materially from those we anticipated due to a number of uncertainties, many of which are unforeseen, including, among others, the risks we face as described above and elsewhere herein. You should not place undue reliance on these forward-looking statements. To the extent that these statements are not recitations of historical fact, they constitute forward-looking statements that, by definition, involve risks and uncertainties. Our actual results, performance, or achievements could differ materially from those expressed in, or implied by, the forward-looking statements. We can give you no assurance that any of the events anticipated by the forward-looking statements will occur or, if any of them do, what impact they will have on our results of operations and financial condition. We do not intend, and we undertake no obligation, to update any forward-looking statement.

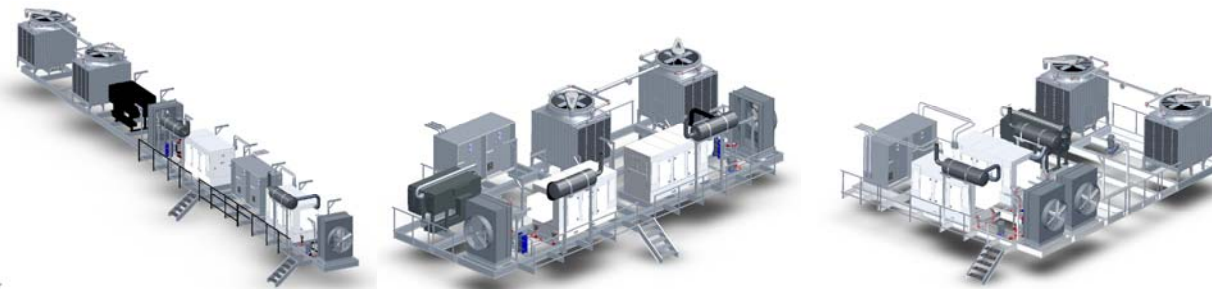


RealExperience

RealEnergy has developed, built, owned and operated more clean onsite power plants than any independent power producer in North America.

- 43 Electric Grid Interconnections
- Reciprocating Natural Gas Engines, Solar PV, MicroTurbines, Microgrids
- Highly Reliable 'Cleaner Than Grid' Power Located At Host Customer Site
- Power Plant Fleet Sale to ArcLight/John Hancock Insurance

RealEnergy is a focused developer of alternative power plants.



RealEnergy BioGas/Natural Gas PowerPods



Marriott Hotel Fremont, CA



RealEnergy Developments



Tower Realty
San Francisco, CA



Trammell Crow
Torrance, CA



Fremont Properties
San Francisco, CA



Transwestern
So. California and New Jersey





RealEnergy Developments



Ensemble, Long Beach, CA



Arden Realty, San Diego, CA



RREEF, Carlsbad, CA



Commonwealth Partners
San Diego, CA



Arden Realty
Beverly Hills, CA



Arden Realty, Long Beach, CA



Introduction

We build and operate power plants – Biogas plants can secure long term contracts for organic waste, which is processed to make fertilizer and renewable energy (natural gas / electricity), that can be directed to our CHP developments or to utilities that must buy.

Now is an optimal time to build – Public policy drivers for low carbon fuel/energy, landfill diversion and nutrient management allows us to lock in attractive fixed-rate contracts for energy and waste disposal, with low interest tax free bonds. As an early mover, we may secure the most attractive locations. We have very limited competition.

Proven technology – Thousands of biogas plants are operating throughout the world. We have exclusives with leading design/build firms and critical system manufacturers to secure Mechanical Biologic Treatment process design/procurement performance guarantees.

Experienced team with a competitive edge - Our RealEnergy/Western Water team has built, owned and operated over 40 alternative energy plants and over 100 waste and water treatment plants. Our biogas facilities can produce twice the revenue of competitors by creating agricultural materials including fertilizers.



Urban Environment Drivers

75% Landfill Diversion Policy Goal¹

- Removal of recycles and organics
- 46.6%² of black bin in CA wants to be methane!

Renewable Electricity

- 33% of electricity in CA from renewable energy by 2020³
- Renewable Portfolio regulations have been enacted in 30 states

¹ Assembly Bill 341 Signed by Governor - www.calrecycle.ca.gov/climate/recycling/faq.htm & www.calrecycle.ca.gov/Calendar/EventDetail.aspx?ID=2888&DS=A

² California 2008 Statewide Waste Characterization Study - www.calrecycle.ca.gov/publications/general/2009023.pdf

³ Governor Brown RPS 33% by 2020 - www.energy.ca.gov/renewables/ & gov.ca.gov/news.php?id=16974



Urban Environment Solution

Technology Solution: Mechanical/Biologic Treatment (MBT)

- Proven technology with performance guarantees
- Discharge water meets water quality standard for recycled water

Revenue stream

- Tipping Fees
- Renewable energy - Biogas fueled electricity production
- Recyclables – Additional Capture
- Liquid organic fertilizer with nutrients
- Carbon credits



On-Farm Environment Drivers

Ground Water Contamination Issues – Serious Public Health Risk¹

- Nitrate is accumulating in ground water
- Confined animal feeding operations (CAFO) must reduce N
- Being regulated: sequester & re-distribution

Growth of Organic Produce Market

- Requires organic fertilizer
- Demands consistent, drip irrigation product
- Seek soil nutrient enhancement and soil salts management

¹<http://groundwaternitrate.ucdavis.edu>



On-Farm Environment Solutions

Technology Solution: Mechanical/Biologic Treatment (MBT)

- Proven Technology – Performance guarantees available
- Nutrient recovery, sequestration and re-distribution
- Consistent product not available in the market - mostly fish emulsion
- Sustainable alternative to fish
- Organic fertilizer applied through efficient drip irrigation can reduce N applied by 50%

Revenue stream

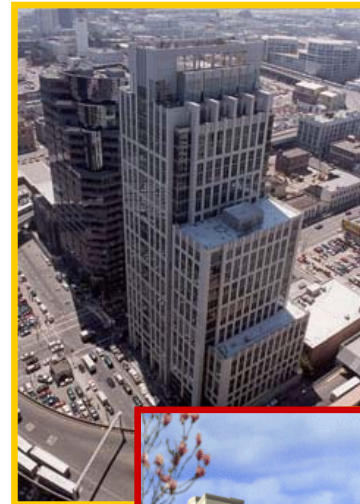
- Liquid Organic Fertilizer with nutrients
- Renewable energy - Biogas fueled electricity production
- Carbon Credits



American Biogas - Opportunity

On-Farm and Urban Biogas Plants

- Cheaper, Cleaner, Domestic and Abundant Fuel
- Lowest Carbon Transportation Fuel
 - 80% Lower Carbon than Conventional Fuels
 - 50% Lower Carbon than Electric Vehicles
- Constant, Reliable, Renewable, Baseload Power
- Proven - 6000+ Plants Operating in Europe
- Using Existing Pipelines and Grid Infrastructure
- Landfill Diversion Rates Migrating to 75%
- Local Jobs
- Delivered Biomethane \$15 (vs. \$5 natural gas)
- Sustainable and Organic Fertilizers
- Significant Incentives Available
- Energy Security and Hedging



RealEnergy Projects:

San Francisco Civic Center
Lend Lease San Francisco
Marriott Fremont
Elihu Harris Building



Urban MBT Project

Transaction Overview



Location:	Napa, California
Project Size:	60,000 tons per year
Feedstock:	MSW & Sorghum
Technology:	Mechanical/Biological Treatment, Nutrient Recovery
Project Cost:	\$ 45M
Equity:	\$ 12M
Debt:	\$ 33M State Bonds

- Napa Recycling – Gets high landfill diversion, lease income, more recyclables, no cost**
- Napa Sanitation Biosolids Site – Gets sustainable nutrient uptake of applied biosolids**
- Napa Sanitation – Gets renewable electricity without utility markup, and recycled water**
- Napa Airport – Gets dramatically reduced odors**



On-Farm Co-Digestion MBT Project

Transaction Overview



Location:	Rickreall, Oregon
Project Size:	40,000 Tons Per Year
Feedstock:	Animal Waste, Sorghum, FOG
Technology:	Mechanical/Biological Treatment Nutrient Recovery
Project Cost:	\$ 30M
Equity	\$ 7M
Debt:	\$ 16M State Bonds
State Grant:	\$ 1M State Energy Program
ITC/Grant:	\$ 6M Cash Grant



On-Farm Single Feedstock MBT Project

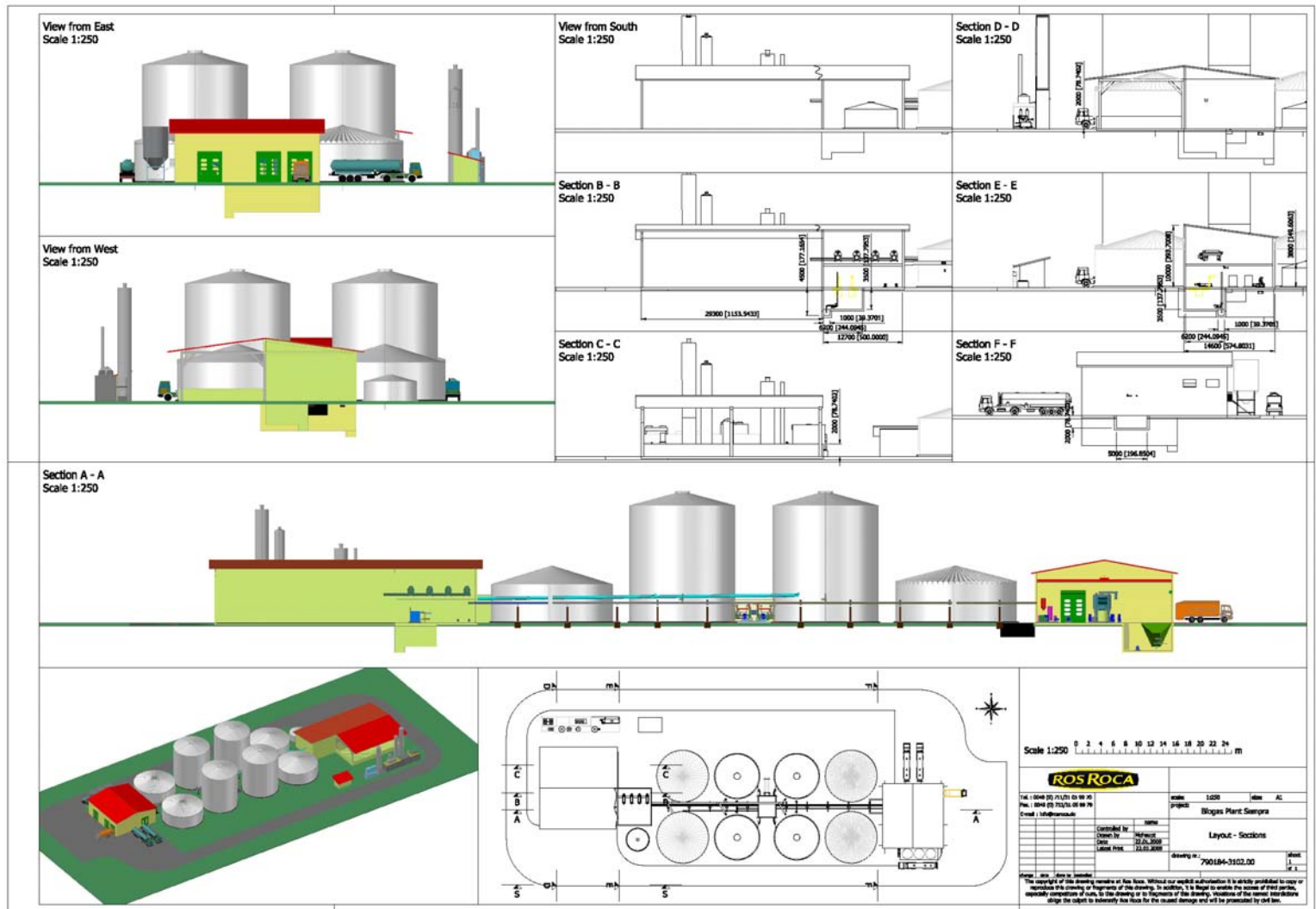


Transaction Overview

Location:	Bakersfield, California
Project Size:	40,000 Tons Per Year
Technology:	Mechanical/Biological Treatment, Nutrient Recovery
Feedstock:	Animal Waste
Project Cost:	\$ 8M
Equity	\$ 2M
Debt:	\$ 6M State Bonds

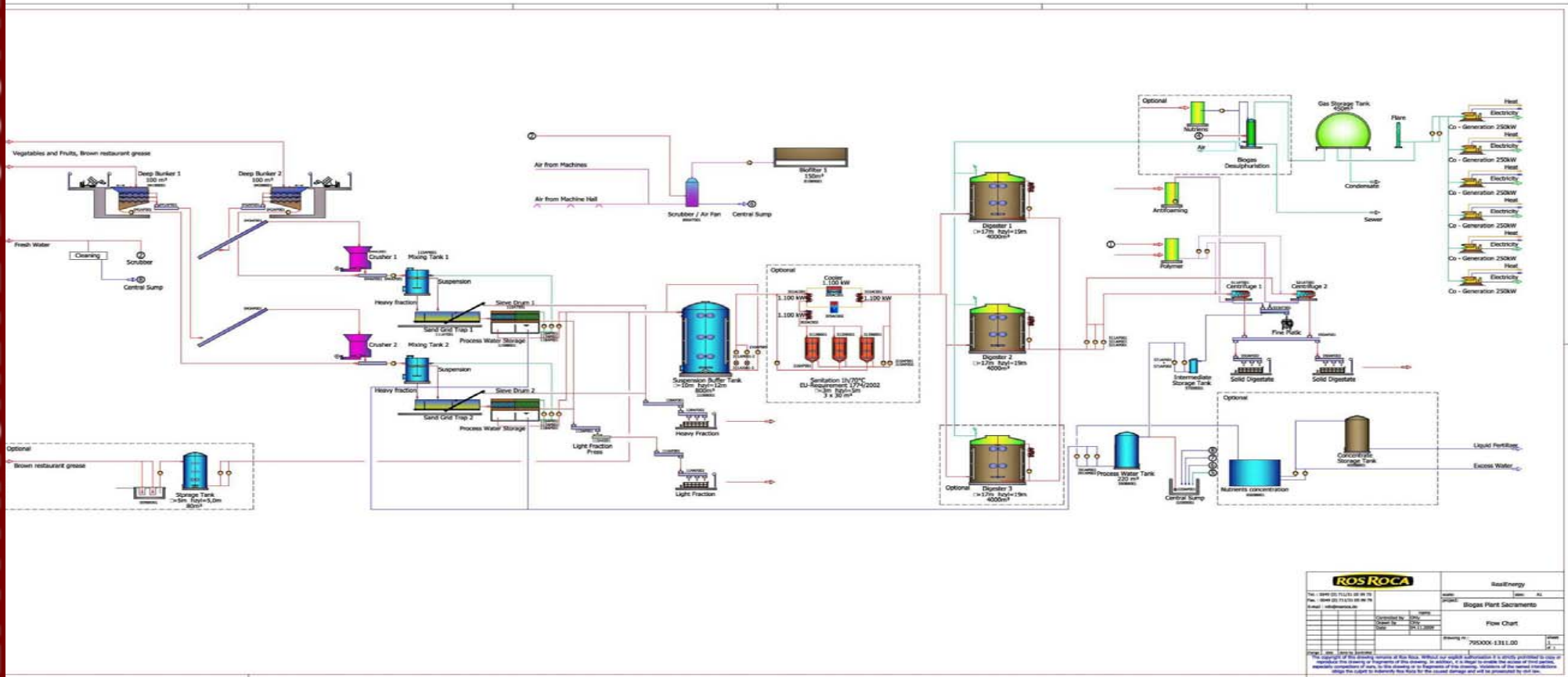


Compact and Expandable Layouts





Modular Design / Proprietary Process

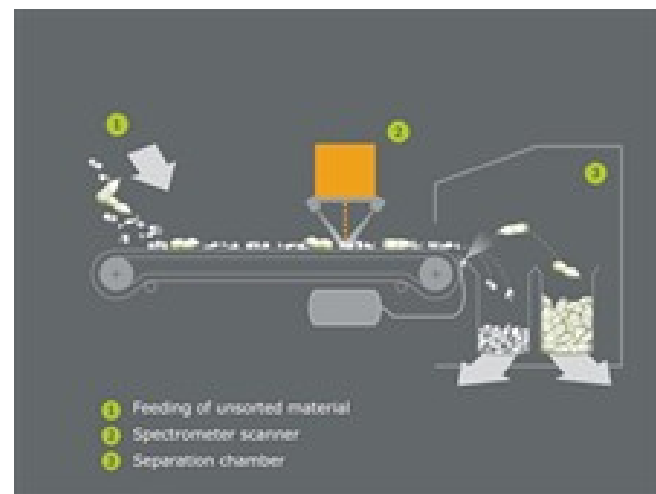


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Project: 795XXX-1311.00		Flow Chart	
Drawing No.: 795XXX-1311.00		Sheet No.: 1	
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•Poster by Ros Roca Internacional S.L.



Proven MSW Organics Sorting Partners



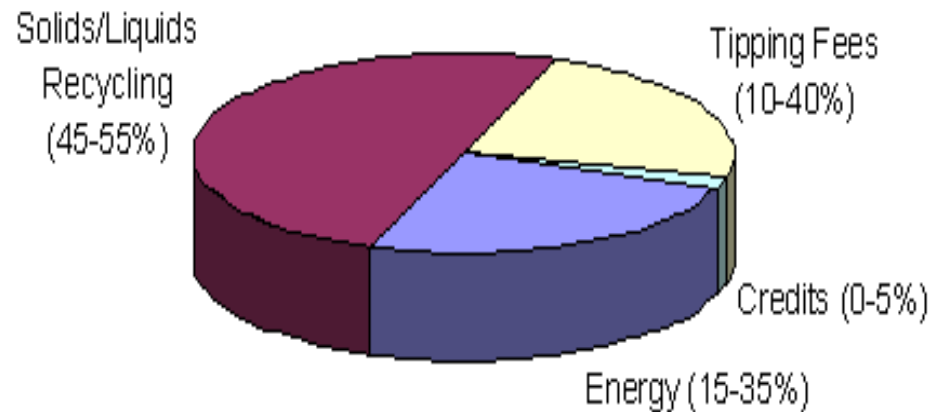
1. **Materials reflect infrared light**
2. **Infrared sensors record each distinctive spectrum**
3. **10 million recordings per second**
4. **320,000 dots of resolution**
5. **Records size, shape, structure, material and position**
6. **Pneumatic sorting - fully automated separation**
7. **95% purity of organics separation after water separation**



Fertilizer Increases Revenues – Lower Costs

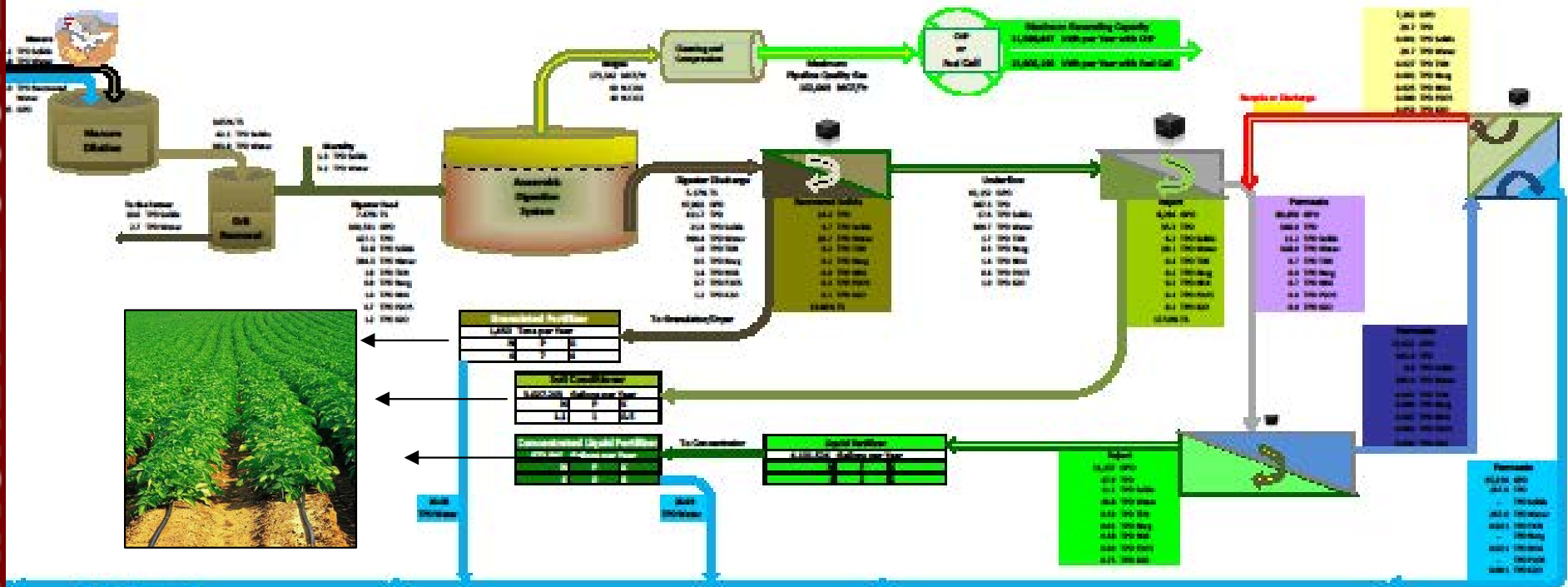
Benefits to the MBT Plant of a fertilizer production system;

- Higher revenues for concentrated fertilizer
- Lower costs with cleaner water





RealEnergy Nitrogen Upgrading



Products:
6-0-5 Liquid Organic Manure Fertilizer for Fertigation (50% Appl)
3-8-5 Granular Organic Fertilizer
1-1-1 Liquid Organic Soil Conditioner for Fertigation
Clean Recycled Water



For More Information



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BioEnergy Developments ~ Primary Onsite Power ~ Microgrids ~ Carbon Negative