



# Introducing CNYAP Central New York Agri-Business Park

And **e|STEP**

## The Energime Integrated Sustainable Technology Platform



CNYAP Will be Built Around a  
500,000 Square Foot **EISTEP**  
Facility with Over 1 Million Square  
Feet of High Density Food Growth  
Space



**e**ISTEP

10,000



**ISTEP 10,000** – Food Growth Facility  
Concept Drawings 04.04.10





# (Energime Integrated Sustainable Technology Platform) is a revolution in human sustainability

CNYAP will introduce to New York State the newest concept in the effort to provide adequate supplies of food, energy, waste processing and water management technologies to communities and regions worldwide. Conceived on a platform designed for maximum food production, super high efficiencies, and environmental flexibility, EISTEP is the apex of the new science called Integrated Sustainable Design (ISD).



# Supportive Relationships and Partnerships



**e|STEP** is supported by the technology and active input of over 150 sustainable technology companies worldwide





# Proposed Site





# 136,000,000 People live within a 750 mile radius



**Exclusive Offering  
FOR SALE OR LEASE**

**Boston Road Farms, LLC  
Canastota, NY 13032**

750 Mile Radius



- 136 million people within 750 mile radius
- 1/2 population of United States
- 1/2 population of Canada

**Mileage to Major Cities**

Albany, NY	121	Montreal, Que.	265
Baltimore, MD	356	New York, NY	268
Binghamton, NY	97	Syracuse, NY	25
Boston, MA	288	Philadelphia, PA	278
Buffalo, NY	168	Pittsburgh, PA	379
Chicago, IL	698	Rochester, NY	106
Cleveland, OH	354	Toronto, Ont.	263
Hartford, CT	234	Washington, DC	398

# The Worlds' Food Supply is in Peril

(News Headlines 2009-2011)



Fungal Plague Could  
Threaten Global  
Wheat Supply

**China suspends reforestation  
project over food shortage fears**

The World's Growing  
Food-Price Crisis

**Africa Drought 'Worst in Decades'**

**Hunger hits Detroit's middle class**

**Flooding Results In Massive  
Food Shortages In India**

**Australia's epic drought:  
The situation is grim**

**Catastrophic Fall in 2009 Global  
Food Production**

**Study Sees 'Global Collapse' of  
Fish Species**

**India to import food amid drought**

**Drought spreading in Southeast**

**Drought to cut off federal water to Calif. farms**



# Current Negative Trend Lines

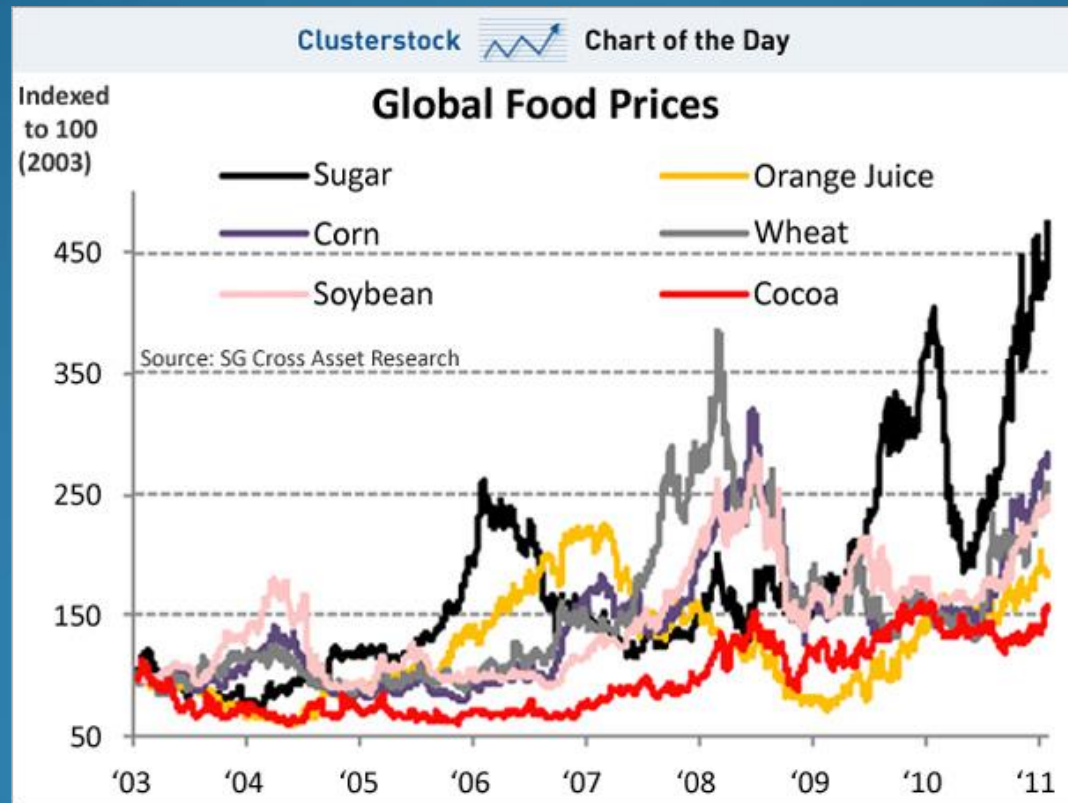


- Collapse of bee colonies (CCD)
- Over harvesting and mismanagement of our ocean resources
- Destruction and reduction of growth/nursery environment for ocean feed stocks, ocean acidification.
- Reduction in harvestable land, top-soil loss, increased output reliance for harvestable acre, reduced nutritional content, bio-diversity issues.
- Collapse of worldwide hydrologic system, aquifer depletion.
- Over-reliance on fossil fuels for fertilizer (peak phosphorus), harvesting and transporting food stocks.
- Population Growth





# Food Prices have Reached Historic Highs in 2011 and are Predicted to Trend upward in the Coming years



# There are Four Main Levels to the **e|STEP** Design

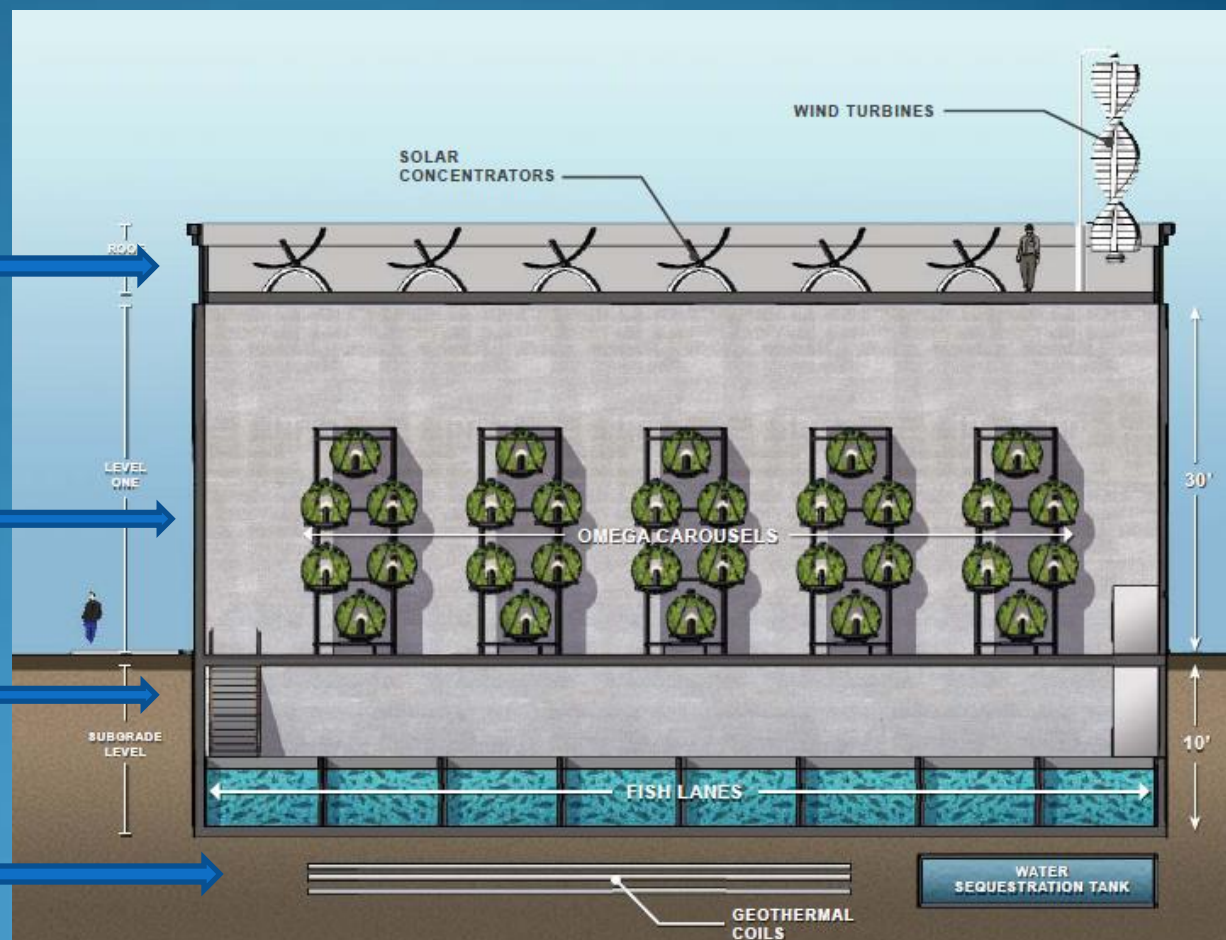


- Roof level

- Agriculture level

- Aquaculture level

Sub-grade level





# High Density Organic Farming



The 3,000 Omega Carousels which will be employed in CNYAP are designed to use only 5 to 10 percent of the water consumed while reducing growth periods to as little as 1/5<sup>th</sup> the time of that of a conventional farm. These systems are designed to stack on top of each other and use all available vertical space. This increases the potential yield area by a factor of ten. In the 500,000 square foot CNYAP facility that translates to 27,000,000 pounds of organic green leafy vegetables and herbs produced annually.



# High Intensity Fish Grow Out and Incubation Area



The 288 fish lanes can be divided into as many as 144 distinct zones. This has the potential for several different varieties of cultured fish crops to be raised simultaneously. State of the art protocols and practices will insure the highest quality harvest with the largest possible yields. Expectations of up to 29,000,000 pounds a year are possible depending on the mix of species.



Barramundi



Tilapia



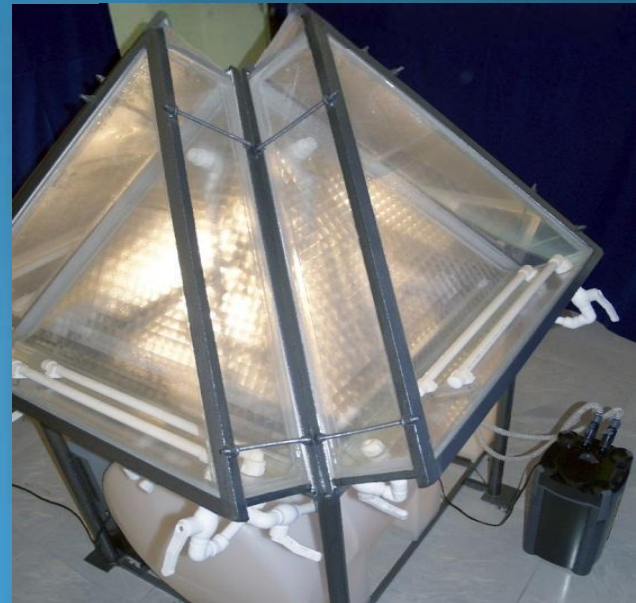
Catfish



# Algae Bio-Diesel and Animal Feed



200 State -of -the -art micro-algae pyramids will create large quantities of bio-diesel while supplying a food source for the fish raised at the facility.

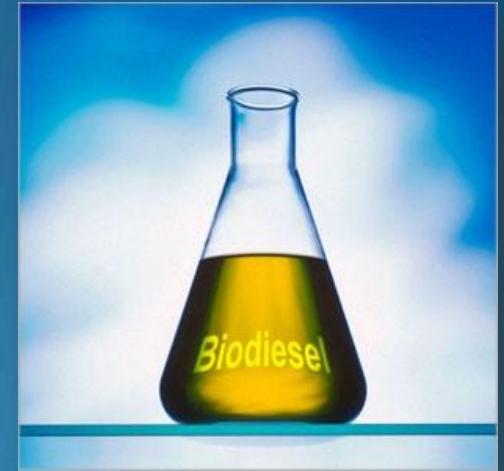




# Waste to Energy



An adjacent facility will convert old tires, municipal waste, and construction and demolition materials into bio-diesel, syn-gas, and a variety of high quality recyclables. This translates into as much as 13,359,000 gallons of diesel fuel per year plus recyclables and tipping fees.



# Some Basic Northeast Wholesale Commodity Prices April 2011



<u>Product</u>	<u>Wholesale Price</u>	<u>Estimated CNYAP Production</u>
Organic Herbs	over \$8.00 a pound	27,000,000 plus per year or
Organic Greens	over \$6.00 a pound	27,000,000 plus per year
Tilapia (fresh fillets)	\$5-7 a pound	29,000,000 per year or
Catfish (fresh fillets)	\$2.40-2.50 a pound	29,000,000 per year
Bio –Diesel	over \$3.00 a gallon	16,365,000 gallons per year

# CNYAP Production Advantages



- Multiple Income streams
- Year-round organic crop production
- Super high crop densities
- Local food production reduces transportation costs
- Optimal environment conditions reduce mortality rates and crop disease
- Design features reduce or eliminate electric, HVAC, and water expenses
- An upgradable platform that can incorporate any new improvements.
- Shorter growth periods allow for rapid crop rotation to match market need.







# Central New York Agri-Business Park

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