



# Cleveland State Community College CBBI / Innovation Center



**Tennessee Renewable Energy & Economic  
Development Council – East Tennessee  
Meeting**

Hiwassee College  
February 24, 2012

# The Beginnings

- Individuals
- Small Groups
- Programs

Energy  
Audit

Horticulturist

Envir.  
Science  
Courses

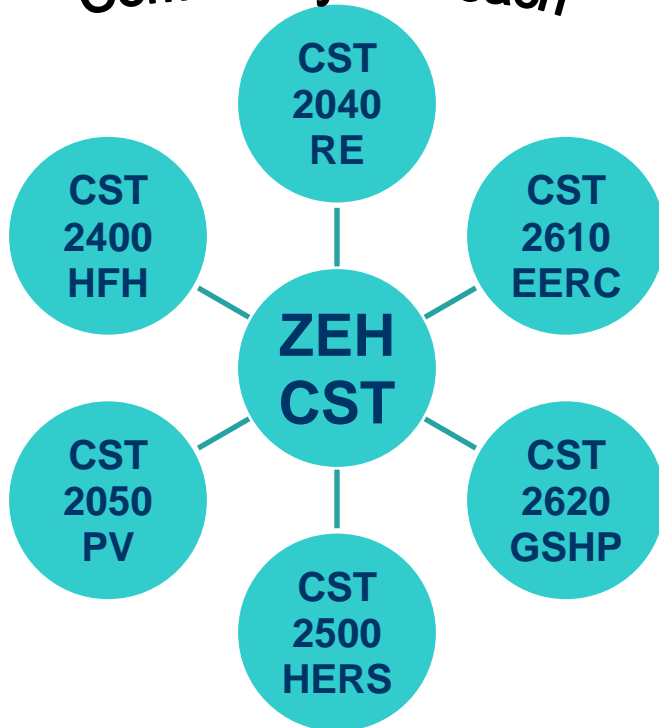
Recycling

Envir.  
Awareness  
Club

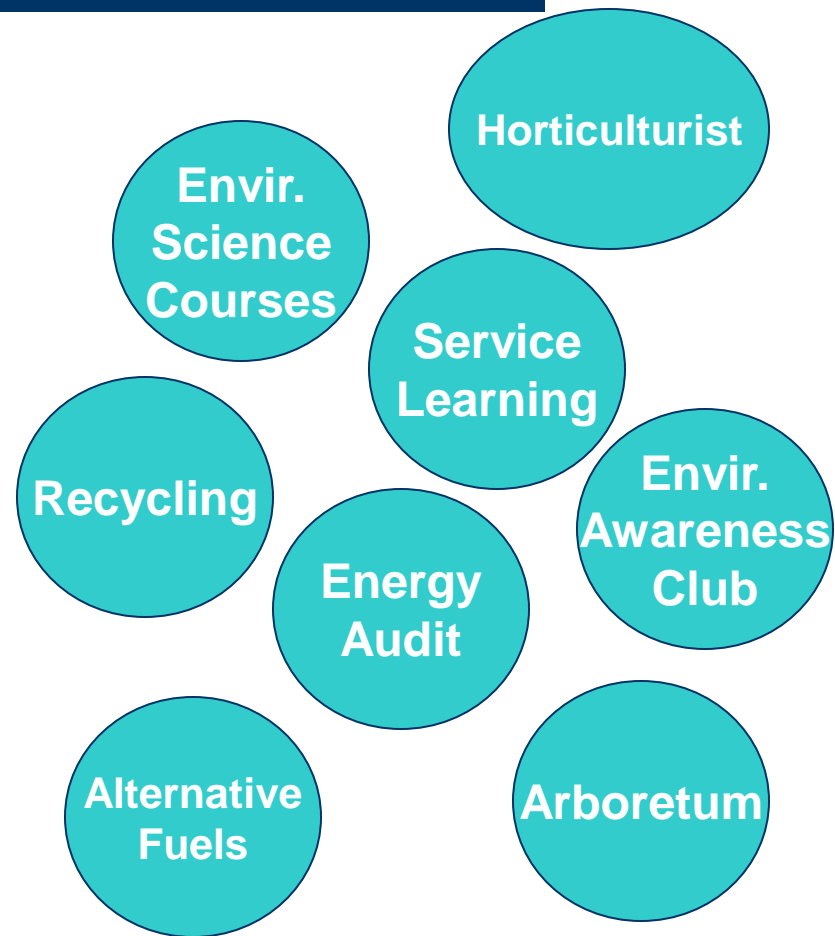
Arboretum

# The Additions

## Community Outreach



## Demonstrations





# The Integration

- Vision – “Every graduating student will develop a ‘mode of thinking and making decisions that considers the natural, cultural, and built environments as an integrated whole.’” (Franklin, Durkin, Pevaroff Schuh, 2003)
- Support of the Leadership
  - Establish committees
  - Support events
  - Promote with Faculty, Staff, & Students
- Sustainability Committee
  - Focus efforts
- Technology Curriculum
  - CST, D&D, CCT, EM, ET
- All Curriculum





# Results

- Sustainability Committee
- Challenge to extend across all curriculum
- CC for Sustainability Conference Calls
- Alliance for Sustainable Communities





## Programs

Grid Tied Solar PV system

Wind turbine generation

Sustainability links on the web site

Recycling

Print management

Printer cartridge recycling

Tree Care Plan

Campus – certified arboretum

Hiking Trails

Water Conservation Measures

Fuels / Fleet Management

# The Future

- Demonstrate that the vision has been captured
- Diploma with Sustainability Emphasis
  - Points system
  - Points for a credit course directly tied to sustainability
  - Points for papers and/or projects in general education courses dealing with a sustainability issue/topic



# Alternative Fuels Plan

## Alternate & Renewable Fuels Development & Training

1) Feedstock



2) Production



3) Distribution



4) Fleets & Vehicles



5) Dispensing



6) Consumer Demand





## Process Equipment







Groundbreaking



Ribbon Cutting

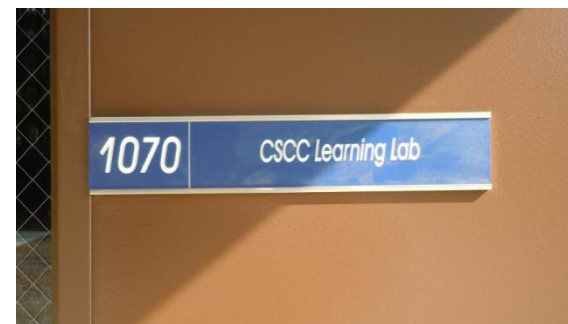


Completion 2011

cleveland/bradley  
**INNOVATION  
CENTER**



## Occupants



# Current Innovation Center Tenants

**TAS** - Custom development and fabrication of efficiency systems...mainly for commercial uses. Their systems allow business owners to design an energy consumption plan that saves both dollars and the environment.

**Airtight Insulation:** 21<sup>st</sup> century technology for your home or business...Airtight closed cell spray insulation can make even older homes cozy and efficient. Owner Scott Wright and his crew of specialists cater to both new construction and renovations with their energy saving insulation.

**Serendipity:** 100% natural and eco-friendly body products made through a totally natural and green manufacturing process, so the products and the process is good for our environment. Owner Cheryl Barker prides herself in using only the purist ingredients, made under green conditions.

**Perimeter Manufacturing:** Our newest tenant plans to be in production soon. They will produce parts for solar panels for use in new and retrofit applications.

**CLSCC Learning Lab:** Instructional lab for teaching the process for producing alternative fuels. Utilizes waste vegetable oil to produce bio-diesel that is used in campus equipment, reducing campus annual fuel consumption.



## Air Tight







- Served 93 companies (graduates).
- Currently serves 30 resident companies at CBBI and 4 at CBIC.
- Graduate companies have created over 265 jobs.
- Resident companies employ over 165 people (Total of over 430 jobs).
- Has been 100% occupied for over 10 years (opened in 2000).
- Has operated independently without any private donations or government funding since opening...completely self-sustaining.
- Approximately 85% of all the companies ever served by the Incubator are still in business today.
- Only 7 of the companies the Incubator has served have moved out-of-state after graduating. 97% of all the graduates are still in Bradley County and surrounding areas.
- CBBI is approached an average of 6 times per year by other communities wishing to start an Incubator or improve their existing incubator.
- CBBI is a member of the National Business Incubation Association (NBIA).
- CBBI has established a scholarship through our host college for Incubator employees and family.
- Working with local banks, CBBI has one of the only tenant micro-loan funds in the south east.