Illinois Green Economy Network: Update

ICCCFO Spring Conference
April 25-27, 2012
ILLINOIS GREEN ECONOMY NETWORK

- President-led consortium of all 48 Illinois community colleges.

- Provides platform for collaboration to identify, establish, share best practices, and promote sustainability initiatives.

- IGEN builds cooperative efforts among community college faculty, staff and students and our community partners to catalyze sustainability implementation and green economic growth throughout the state.
To position the Illinois Community College System as a global leader in transforming education and the economy for a sustainable future.

<table>
<thead>
<tr>
<th>Green Careers</th>
<th>Green Curriculum</th>
<th>Green Communities</th>
<th>Green Campuses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Identify, develop and expand quality green job/career training for students and workers, effectively informed by community and employer partnerships (balance demand/supply)</td>
<td>Provide assistance and training to Illinois community college faculty to integrate sustainability and green economy content into most disciplines and in general education programs</td>
<td>Serve as regional and sector partners for mobilizing community and employer engagement, fostering community education, and supporting action for environmental sustainability</td>
<td>Make sustainability a guiding principle for all institutional practices, promote successful initiatives that reduce energy use and the environmental impact at campuses, and enable colleges to serve as sustainable demonstration sites for teaching and community engagement</td>
</tr>
</tbody>
</table>
Dr. Georgia Costello (Co-Chair),
President, Southwestern Illinois College
Dr. Jerry Weber (Co-Chair)
President, College of Lake County
Dr. Alice Marie Jacobs
President, Danville Area Community College
Dr. Allen Goben
President, Heartland Community College
Dr. Elaine Johnson, Illinois Community College Board
Cheryl Hyman, Chancellor, City College of Chicago
Rob Hilgenbrink, IGEN Finance Advisor and Treasurer
Julie Elzanati, IGEN Executive Director
April 2008: 4 College Sustainability Centers
$490,000 - Illinois DCEO start-up grant

Early 2009: 6 College Sustainability Centers
$245,000 - Illinois DCEO grant

November 2009: 12 College Sustainability Centers
$1,700,000 - two Illinois DCEO grants
$250,000 - Department of Energy (Congresswoman Halvorson)
$600,000 - Department of Education (Congressman Hare)

July 2011: 20 College Sustainability Centers
$2,000,000 from Illinois DCEO

August 2011
$2,500,000 from Illinois DCEO (EEPS)

October 2011
$19,366,375 from US Department of Labor (TAACCCT)
FY12 Initiatives

- **Base Funding**
  - Sustainability Centers expansion (20 districts)
  - Green Economy Centers expansion (4 regional)
  - Seed Funding (19 districts)
  - Task Forces and Work Groups

- **Energy Equipment Group Purchasing Consortium**
- **Targeted Energy Management Training & Education**
- **Illinois Green Career Pathways Consortium**
Task Force & Work Groups

- Local Foods
- Greening Your Curriculum
- Equipment Loan Program
- Electric Vehicles
- Smart Grid
- Green Healthcare
- Green Economy Centers
ICCTES and ICCTEMT

$2.5M FY12 EEPS Aggregation grant from IL DCEO to coordinate two complementary statewide programs

Illinois Community College Targeted Energy Savings (ICCTES)

• Combination of cost-effective energy-efficiency improvements
• Group energy equipment procurement by multiple colleges
• Attempt to collectively reduce electricity demand 10% and gas demand 8% over a period of three years for participating colleges

Illinois Community College Targeted Energy Management Training (ICCTEMT)

• College staff develop or participate in multiple energy management job training opportunities
• Business partners invited to participate at no charge
• A variety of educational workshops, professional development opportunities, technical assistance seminars, behavior change awareness campaigns, and energy conferences
GREEN CAREER PATHWAYS

$19.4M FY12-FY14 TAACCCT grant from the US Department of Labor to develop the Illinois Green Career Pathways Consortium

- 17 colleges
- Create and deliver more than 30 online-hybrid green job degree or certificate programs
- Collaboration with business and industry partners, universities and the Illinois Community College Board
SUSTAINABILITY SUCCESSES

36 of 39 districts signed the IGEN Intergovernmental Agreement

32 colleges offer sustainability curriculum; including 16 with green degrees, and 22 with green certificates.

18 colleges offer a GYC faculty development program.

35 of 39 districts are AACC SEED members

19 have student clubs working on sustainability initiatives

24 colleges use alternative energy sources beyond classroom training.

16 districts participate in ICCTEVT, 18 in ICCTES, and 17 in TAA

30 colleges have had an energy audit of one or more buildings.

Sustainability is included in the strategic plan of 21 colleges; in the master plan of 20 colleges; and in the mission, vision and policy statement of 16 colleges.

18 colleges have had an energy audit of one or more buildings.

24 colleges use alternative energy sources beyond classroom training.

16 districts participate in ICCTEVT, 18 in ICCTES, and 17 in TAA

35 of 39 districts are AACC SEED members

Sustainability is included in the strategic plan of 21 colleges; in the master plan of 20 colleges; and in the mission, vision and policy statement of 16 colleges.
# Year 1 Participants

<table>
<thead>
<tr>
<th>College</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carl Sandburg College</td>
<td>Samuel Sudhakar</td>
</tr>
<tr>
<td>College of DuPage</td>
<td>Ron Dulceak</td>
</tr>
<tr>
<td>College of Lake County</td>
<td>Ted Johnson</td>
</tr>
<tr>
<td>Danville Area Community College</td>
<td>Bruce Rape</td>
</tr>
<tr>
<td>Harper College</td>
<td>Darryl Knight</td>
</tr>
<tr>
<td>Heartland Community College</td>
<td>Adrienne Tucker</td>
</tr>
<tr>
<td>John A. Logan College</td>
<td>Tim Gibson</td>
</tr>
<tr>
<td>John Wood Community College</td>
<td>Lou Barta</td>
</tr>
<tr>
<td>Kankakee Community College</td>
<td>Rich Schultz</td>
</tr>
<tr>
<td>Kaskaskia College</td>
<td>Art Borum</td>
</tr>
<tr>
<td>Lake Land College</td>
<td>Jeff Oder</td>
</tr>
<tr>
<td>Lewis and Clark Community College</td>
<td>Ted Kratschmer</td>
</tr>
<tr>
<td>Prairie State College</td>
<td>Beth Koprowski</td>
</tr>
<tr>
<td>Richland Community College</td>
<td>Greg Florian</td>
</tr>
<tr>
<td>Rock Valley College</td>
<td>Jacki Minnihan</td>
</tr>
<tr>
<td>Southwestern Illinois College</td>
<td>Ronald Henderson</td>
</tr>
<tr>
<td>Triton College</td>
<td>John Lambrecht</td>
</tr>
<tr>
<td>Waubonsee Community College</td>
<td>Cassie Blickem</td>
</tr>
</tbody>
</table>
YEAR 1 RESULTS

18 Colleges
Electric (15 Colleges)
  – Total Project Costs: $2,176,612
  – IGEN Incentives: $1,632,460 (75%)
  – Total Savings: 4,296,000 kWh (3.4% vs. 4% target)

Gas (9 Colleges)
  – Total Project Costs: $243,601
  – IGEN Incentives: $149,461 (36-75%)
  – Total Savings: 103,579 Therms (1.7% vs. 3% target)
YEAR 1 PROJECT TYPES

• Interior Lighting:
  – New Fixtures T-8/T-5: 66%
  – Retrofits: 19%
  – LED/Induction: 8%
  – Motion Sensors: 7%

• VFDs
• Vending Misers
• Boiler Replacements
• Boiler Combustion Controls
• Miscellaneous
  – Boiler Tune-Ups
  – Steam Trap Replacements
  – Insulation Improvements
  – Pre-Rinse Spray Valve Improvements
YEAR 1 NEXT STEPS

• Complete installation
• Upload PDFs of invoices on IGEN Financial Reporting System (use labor report for in-house installation)
• Upload verification form, lighting survey and sample photos to IGEN Activity Report Database
YEAR 1 NEXT STEPS

Miscellaneous measures
– Boiler tune-ups
– Steam trap replacements
– Insulation improvements

• Email applications and supporting documentation to Stefano Galiasso (boiler@uic.edu)

• Upload PDF of invoice on the IGEN Financial Reporting System
YEAR 1 PROGRAM REVIEW

• New program – shortened year
• Initial formation of team, processes, projects, incentives, etc.
• Successes
  – High interest in lighting projects: $2,151,612
    • Ameren grant increased from $344,816 to $961,687
  – Bulk purchase of lighting saved nearly $200,000
  – 4,296,000 kWh saved
Challenges

- Less than 8 months to establish and implement the program
- Finalizing project details/specifications
- Gas projects – will use 30% of grant dollars
- Exterior & parking lot lighting – slid to Year 2
- Incentive level vs. DCEO expectations
## Additional Participants - Year 2/3

<table>
<thead>
<tr>
<th>College</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Hawk College</td>
<td>Mike Phillips</td>
</tr>
<tr>
<td>Elgin Community College</td>
<td>Jeffrey Boyd</td>
</tr>
<tr>
<td>Illinois Central College</td>
<td>Troy Hatterman</td>
</tr>
<tr>
<td>Illinois Eastern Community College</td>
<td>Kathy Swinson</td>
</tr>
<tr>
<td>Illinois Valley CC</td>
<td>Jared Olesen</td>
</tr>
<tr>
<td>Kishwaukee College</td>
<td>Jean Katje</td>
</tr>
<tr>
<td>McHenry County College</td>
<td>Greg Evans</td>
</tr>
<tr>
<td>Morton College</td>
<td>Derek Shouba</td>
</tr>
<tr>
<td>Parkland College</td>
<td>Seamus Reilly</td>
</tr>
<tr>
<td>Sauk Valley Community College</td>
<td>Alan Pfeifer</td>
</tr>
<tr>
<td>South Suburban College</td>
<td>Martin Lareau</td>
</tr>
</tbody>
</table>
• ≤ 7 year payback
• Emphasize group purchase and networking among Colleges for each project type
• Simplify project data gathering
• Incentive criteria – baseline incentive plus:
  – Group purchase savings
  – Payback
YEAR 2 PROJECTS

• Interior Lighting
• Exterior/Parking Lot Lighting
• Building Automation Systems
• Energy Information Systems/Dashboards
• Other Equipment
• Miscellaneous Measures
YEAR 2 NEXT STEPS

• Questionnaire
• Participation
• Finalize project types
• Establish:
  • Working groups
  • Processes and timeline
  • Incentives