



Kirkwood

Presentation to the

Sustainability Conference

October 15, 2007

Start Here.
Go Anywhere!

www.kirkwood.edu

675 Acre Main Campus in Cedar Rapids



www.kirkwood.edu

Kirkwood Community College Sustainability Strategy

- **Background**
- **Getting Started**
- **Into the future**

Energy Management

-- Strategies

- Energy Efficient Mechanical & Electrical Systems
- Energy Management Systems
- Software
- Education
- Future Possibilities
- Energy Policy

Energy Efficient Mechanical & Electrical Systems

- Variable speed drive motors
- Occupancy sensors
- Increased use of natural lighting
- Use of energy efficient bulbs and fixtures
- Use of LED technology
- Ground source heat pumps
- Low flow & low volume fixtures

Energy Mgmt. System

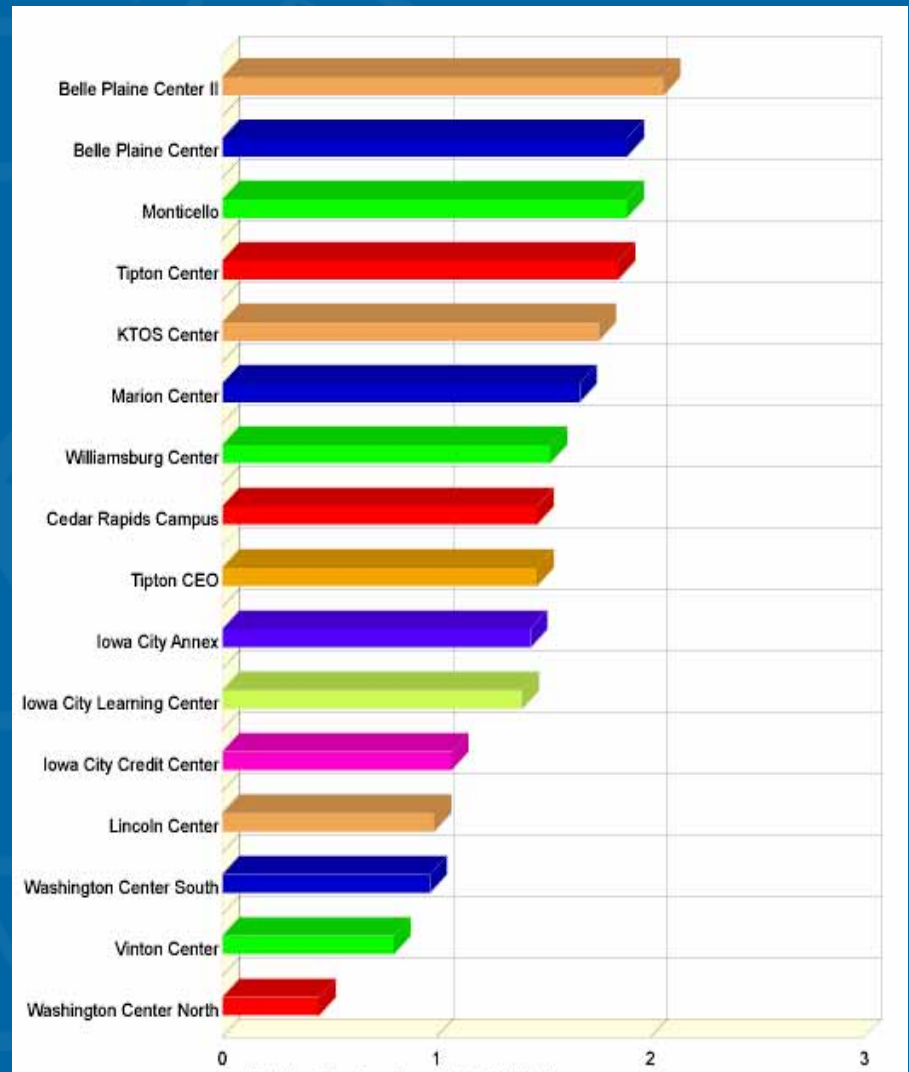
- Heating, cooling, lighting, fire, & security systems can be controlled from central computer
- Ability to balance system & make adjustments for entire building or room by room basis (example: room usage)
- Helps ensure heating & cooling is operating at peak efficiency while ensuring optimum occupant comfort.
- Examples:
 - Load shedding – cuts usage at peak demand times
 - Night set backs

Software

- Utility Direct - Software which audits, tracks, and analyses utility consumption and costs. <http://www.schoolde.com/>
- Energy Saving Program For PC's – software program provides measurable energy and cost savings through network-level control over PC and monitor power settings.

Building Cost per Sq. Ft 2007

Building	Cost	Area	Cost/Ft ²
Belle Plaine Center II	\$2,471.09	1200	\$2.06
Belle Plaine Center	\$6,802.52	3600	\$1.89
Monticello	\$64,378.20	34144	\$1.89
Tipton Center	\$7,141.37	3864	\$1.85
KTOS Center	\$61,945.88	35250	\$1.76
Marion Center	\$19,681.83	11785	\$1.67
Williamsburg Center	\$10,623.08	6960	\$1.53
Cedar Rapids Campus	\$1,487,335.62	1009044	\$1.47
Tipton CEO	\$15,949.71	10840	\$1.47
Iowa City Annex	\$12,674.98	8816	\$1.44
Iowa City Learning Center	\$8,422.52	6000	\$1.40
Iowa City Credit Center	\$80,128.68	74900	\$1.07
Lincoln Center	\$30,462.47	30635	\$0.99
Washington Center South	\$6,206.66	6406	\$0.97
Vinton Center	\$8,046.36	10000	\$0.80
Washington Center North	\$2,472.15	5500	\$0.45



Campus Energy Policy

- Purpose
- Policy
- Expectations
- Buildings
- New Construction
- Lighting
- Cooling & Heating
- Purchasing
- Individual Responsibility
- Exceptions

Energy Policy

4. Cooling & Heating

- Unless special needs are required, the following minimum and maximum room temperatures shall be maintained:
- During Occupied Hours: Heating – 68 Deg. F, Cooling – 74 Deg. F
- During Unoccupied Hours: Heating – 60 Deg. F, Cooling – 85 Deg. F
- Nights, weekends, and most holidays, the following temperatures will be set when the space is unoccupied:
Heating – 60 Deg. F, Cooling – 85 Deg. F.

Other Initiatives

- Green Custodial Chemicals
- Cardboard and Paper Recycling
- Composting of Agricultural/Grounds Maintenance Materials
- Natural Prairie Areas

Future Initiatives

- Bio Fuels
- Wind Power
- Expanded Recycling Program

A large, faint watermark of the Kirkwood Community College seal is centered in the background. The seal is circular and contains the text 'COLLEGE KIRKWOOD' at the top and 'KIRKWOOD COMMUNITY COLLEGE' at the bottom. In the center of the seal is a shield with a book and a quill.

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