

**Ball State University
Unit-level Sustainability Planning**

[as mandated in Goal IV_F of the 2007-2012 Ball State University Strategic Plan]

A Sustainability Plan

for the

Center for Business and Economic Research

Submitted to
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Provost and Vice-President for Academic Affairs

May 15, 2009

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Achievements to Date

The following are our short-form question responses within the categories of Governance and Administration, Operations, and Research, and Community Service and Outreach. Since we are not an academic unit we have not included curriculum matters.

[Provide brief descriptions for each affirmative or goal response]

Governance and Administration

Y N Goal

☐ **X** ☐ 1. The unit has standing committees to address issues of sustainability.

Y N Goal

☐ **X** ☐ 2. The unit gives assigned load and/or a staff position dedicated to sustainability initiatives.

Y N Goal

☐ **X** ☐ 3. The unit has established policies that encourage sustainability initiatives.

Y N Goal

☐ **X** ☐ 4. The unit has sustainability integrated into its mission statement.

Y N Goal

☐ **X** ☐ 5. The unit maintains active membership in organizations engaged in promoting sustainability.

Y N Goal

☐ **X** ☐ 6. The unit encourages and rewards research related to sustainability.

Y N Goal

☐ **X** ☐ 7. The unit encourages and rewards the integration of sustainability issues into course material.

Operations

Y N Goal

☐ **X** ☐ 1. The unit purchases/uses Energy Star Office and Telecommunications Equipment.

Y N Goal

☐ **X** ☐ 2. The unit has policies to restrict paper use.

Y N Goal

☐ **X** ☐ 3. The unit uses recycled paper.

Y N Goal

X ☐ ☐ 4. The unit recycles all materials accepted by the university system.

Y N Goal

X ☐ ☐ 5. The unit has appropriate recycling bins throughout its offices.

We recycle

Y N Goal
☐ X ☐ 6. The unit has policies that encourage the use of teleconferencing capabilities to limit travel.

Y N Goal
X ☐ ☐ 7. The unit specifies hybrid electric vehicles for travel.
When possible we prefer the hybrid vehicles

Y N Goal
☐ X ☐ 8. The unit shows preference for sustainable lodging for professional travel.

Y N Goal
☐ X ☐ 9. The unit uses washable dinner/service ware for its meetings/receptions.

Y N Goal
☐ X ☐ 10. The unit purchases/uses remanufactured office furniture.

Y N Goal
☐ X ☐ 11. The unit purchases/uses sustainable materials for office furnishings.

Y N Goal
☐ X ☐ 12. The unit discourages the use of single-occupant automobile travel.

Y N Goal
☐ ☐ X 13. Classroom, Office and/or Restroom lighting for the unit is controlled by occupancy sensors.

We will request occupancy lighting coincident to any changes in the physical layout of the Center.

Y N Goal
☐ X ☐ 14. The unit's thermostats are set to minimize energy use for heating and cooling.

Research

Y N Goal
X ☐ ☐ 1. Members of the unit have conducted research on issues of sustainability in their discipline.

Two (2) of our faculty have directly engaged research on sustainability; one (1) faculty has published a book on sustainability and three (3) of our faculty have extensive publication on sustainability in refereed journal articles, refereed conference proceeding papers, and invited keynote presentations.

Y N Goal

☒ ☐ ☐ 2. Members of the unit have published on issues of sustainability in their discipline.

Our Staff has extensive publication and public policy research devoted to environmental issue. These include testimony to the United States Senate, several state legislatures and federal litigation.

Y N Goal

☐ ☒ ☐ 3. Members of the unit attend conferences that address issues of sustainability.

There are non in our discipline

☐ ☒ ☐ 4. Members of the unit belong to associations dedicated to sustainability issues.

There are none in our discipline.

Y N Goal

☐ ☒ ☐ 5. The unit has hosted workshops on issues of sustainability.

Y N Goal

☐ ☒ ☐ 6. The unit has hosted conferences on issues of sustainability.

Community Service and Outreach

Y N Goal

☐ ☒ ☐ 1. The unit engages in public and/or outreach activities that address issues of sustainability.

Y N Goal

☐ ☒ ☐ 2. The unit is in partnership with others in the community in the pursuit of sustainability.

Y N Goal

☐ ☒ ☐ 3. The unit participates in community events that address issues of sustainability.

Y N Goal

☐ ☒ ☐ 4. The unit has initiated community endeavors in pursuit of sustainability.

Existing conditions as baseline (data as available)

In response to the questions above we have identified environmental policy analysis performed by Center staff. The following list comprises our 2008-2009 baseline.

Environmental Policy Analysis

RESEARCH

JOURNALS

- Thaiprasert, Nalitra "Short-cut Estimates for Annual Hog CAFO Production: Relationship between Hog CAFO Inventory and the Annual Production." *Journal of Extension* [on-line] 46(6), 2008.
Available from: <http://www.joe.org/joe/2008december/rb1.shtml>
- Burton, Mark L. Michael J. Hicks and Kent Sowards "Transportation and Market Feasibility Analysis for Innovative Coal Combustion By-Products: Woodbrik in Greenbrier County, West Virginia" *International Journal of Environment and Waste Management*, forthcoming, 2007
- Hicks, Michael J. "Risk to the Special Reclamation Fund and Mine Operations in West Virginia" *International Journal of Risk Assessment and Management*, Vol 6, 2006
- Hicks, Michael J. and Mark L. Burton "Economic Analysis of Coal Waste Disposal: Research Considerations for Environmental Regulation", *Minerals and Energy*, 2005 Vol 16:1 pp 3-15.
- Thaiprasert, Nalitra Rethinking the Role of the Agricultural Sector in the Thai Economy and Its Income Distribution: A Social Accounting Matrix Analysis." *Forum of International Development Studies* 27 (Aug 2004): 187-212
- Hicks, Michael J and Mark L. Burton "The Disamenity of Coal Slurry Impoundments and their Effect on Housing Values in Kentucky and West Virginia", *Growth and Change* (under review)
- Hicks, Michael J and Mark L. Burton "Tax Increment Financing Implications of Municipal Parks in West Virginia: Spatial and Semi-Parametric Estimates", *Journal of Park and Recreation Administration*, forthcoming
- Hicks, Michael J. "The Demand for Alternative Fueled Vehicles in the United States. Do State Tax Incentives Matter?" *Empirical Economics Letters*
- Hicks, Michael J. "Coal in the Industrial Revolution" in *The Encyclopedia of the Age of the Industrial Revolution* ed. Christine Rider, forthcoming 2007.

SELECTED REPORTS

- Thaiprasert, Nalitra "Analysis of Hog Production Industry and Animal, except poultry, Slaughtering Industry in Carroll County, Indiana." BBC, Ball State University, October 2007, \$21,000 (with Richard Heupel).

Thaiprasert, Nalitra "Analysis of Hog Production Industry in Jay County, Indiana." BBC, Ball State University, March 2007, \$10,764 (with Richard Heupel).

Thaiprasert, Nalitra "Analysis of Hog Production Industry in Randolph County, Indiana." BBC, Ball State University, February 2007, \$10,764 (with Richard Heupel).

Hicks, Michael J. "Options for Alternative Energy Markets in West Virginia" *Appalachian Regional Commission*, July 2006, (with Cal Kent and Christine Riche)

Hicks, Michael J "Hurricane Katrina: Preliminary Estimates of Commercial and Public Sector Damages" Center for Business and Economic Research, Marshall University. 2005 (with Mark L. Burton).

Hicks, Michael J "Risk to the Special Reclamation Fund and Mine Operations in West Virginia" West Virginia Department of Environmental Protection

Hicks, Michael J "Regional Markets for FutureGen Products" West Virginia Development Office and the U.S. Department of Energy. April. (\$55,000) (with Mark L. Burton, Cal Kent and Chris Riche)

Hicks, Michael J "Comprehensive Flood Damage Estimates of the Upper Mississippi." Rock Island District, US. Army Corps of Engineers. April, 2003. (with Mark L. Burton)

Hicks, Michael J "Expected Flood Damages to Transportation Infrastructures as a Proportion of Total Event Costs: A Methodological Exploration." Rahall Appalachian Transportation Institute and Tennessee Valley Authority. January, 2003 (with Mark L. Burton)

Hicks, Michael J "Economic Analysis of Coal Waste Disposal: Social, Environmental and Commercial Cost Considerations", A White Paper, Committee on Coal Waste Impoundments, National Academies of Science, July, 2002. (with Mark L. Burton)

Hicks, Michael J "The West Virginia Clean Water Trust Fund", West Virginia Division of Environmental Resources, November, 2001. (with Marc Simpson and Kristy Wilburn).

Hicks, Michael J "The Fiscal Implications of Judicially Imposed Surface Mining Restrictions in West Virginia", West Virginia Legislature, Joint Committee of Government and Finance, June, 2001 (with Mark Burton and Cal Kent)

Hicks, Michael J "Coal Production Forecasts and Economic Impact Simulations in Southern West Virginia", West Virginia Legislature, A Report to the Joint Committee of Government and Finance, June, 2000 (with Mark Burton and Cal Kent)

PROFESSIONAL SERVICE

Hicks, Michael J

Independent Technical Reviewer: US Army Corps of Engineers, Independent Performance Evaluation Team Report on Hurricane Katrina (June 1, 2006)

West Virginia Special Reclamation Fund Advisory Council (Senate confirmation, 2003)

TESTIMONY AND REMARKS ON ENVIRONMENTAL ISSUES

Hicks, Michael J

United States Senate (research cited in floor speech, October (2004)

West Virginia Senate, Committee on the Energy Industry and Mining (August, 2004)

United States Senate, Committee on Environment and Public Works

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(cited in hearing, March 2004)
 Federal Reserve Bank of Kansas City (September, 2003)
 West Virginia Joint Committee on Educational Accountability, (January 2003)
 United States Senate, Committee on Environment and Public Works,
 Subcommittee on Clean Air, Wetlands and Climate Change, (June 2002)
 West Virginia House of Delegates, Committee on Education, March, 2001, (January 2003)
 West Virginia Joint Legislative Committee on Government and Finance, (February 2001)
 North Carolina Coal Institute, (July 2000)
 West Virginia Joint Legislative Committee on Government and Finance, (June, 2000)

APPEARANCE OF RESEARCH IN ENVIRONMENTAL AND ENERGY LITIGATION

Hicks, Michael J

"*Ohio Valley Environmental Coalition v. Bulen*", Federal District of Southern West Virginia, 4th Circuit Court of Appeals, The Fiscal Implications of Judicially Imposed Surface Mining Restrictions in West Virginia. (Burton, Hicks and Kent). and "The Goodwin Decision's Impacts on Coal Production and Economic Outcomes: A Preliminary Discussion" (Hicks and Burton, 2003)

"*Bragg v. Robertson*" Federal District of Southern West Virginia, 4th Circuit Court of Appeals, Richmond, Appeal Denied, U.S. Supreme Court. Coal Production Forecasts and Economic Impacts Simulations in Southern West Virginia (Burton, Hicks and Kent).

"*Kentuckians for the Commonwealth v. Rivenburgh*" , Federal District of Southern West Virginia, 4th Circuit Court of Appeals, Federal The Fiscal Implications of Judicially Imposed Surface Mining Restrictions in West Virginia. (Burton, Hicks and Kent).

"*Caperton v. Massey*" District Court of Boone County and the West Virginia Supreme Court. A Top 50 US Tort Case, U.S. Supreme Court 2009 Docket. (deposition, testimony and unpublished analysis).

Action Items

None

