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

Department of Natural Resources and Environmental Management College of Sciences and Humanities Vice-Presidency of Academic Affairs

Submitted to
Dr. Terry King
Provost and Vice-President for Academic Affairs

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Achievements to Date

The following are our short-form question responses within the categories of Governance and Administration, Operations, Curriculum and Research, and Community Service and Outreach. In developing these short-form responses, we are pleased to report significant achievements in these areas and have identified opportunities for further development/transformation.

[Provide brief descriptions for each affirmative or goal response]

Governance and Administration
Y N Goal 1. The unit has standing committees to address issues of sustainability.
Y N Goal 2. The unit gives assigned load and/or a staff position dedicated to sustainability initiatives.
Y N Goal
These are contained in the department's mission statement.
Y N Goal
As noted in #3. The full text reads: "The mission of the Natural Resources and Environmental Management Department is to enhance environmental quality and sustainability through holistic multi-disciplinary teaching, scholarship, and outreach. At scales ranging from local to international, we strive to provide our students and the community with a greater understanding of ethical, scientific, and management principles that facilitate stewardship of resources and protection of the environment."
Y N Goal S. The unit maintains active membership in organizations engaged in promoting sustainability.
For professional organizations, memberships by NREM faculty include the International Society for Industrial Ecology, Soil & Water Conservation Society, and Council of Environmental Deans and Directors; memberships in other professional organizations may include emphases on sustainability.
For advocacy/research organizations that promote sustainability, an unknown number of memberships by NREM faculty include at least the following: Union of Concerned Scientists;

World Resources Institute; Worldwatch; Natural Resources Defense Council; and Sierra Club.

Y N Goal
While not explicitly a component of NREM policy for faculty evaluations, the mission statement lends credence to emphases on sustainability as suitable and encouraged for scholarly activity.
Y N Goal ⊠ □ 7. The unit encourages and rewards the integration of sustainability issues into course material.
Again, the mission statement provides an access point for sustainability in curriculum. At least 4 courses are aimed explicitly at sustainability (NREM 304 – Sustainable Agriculture; NREM 309 – Human Dimensions of Global Environmental Change; NREM 331 – Energy & Mineral Resources; and NREM 335 – Renewable Energy and Sustainable Technology), while sustainability is incorporated in parts of several other courses.
Operations Y N Goal
☐ In Goal
When possible (although not explicitly a part of policy)
Y N Goal 2. The unit has policies to restrict paper use.
Only via encouragement to use double-sided printing on the department's copier; we have double-sided printing set as the default mode for printers in our 33-station computer lab.
Y N Goal M 3. The unit uses recycled paper.
We customarily purchase 30% recycled content paper.
Y N Goal M Go
This is encouraged in individual offices, and several of our classrooms and lab facilities have recycling bins, as well.
Y N Goal ☑ ☐ 5. The unit has appropriate recycling bins throughout its offices.
See #4, above.
Y N Goal Mark Goal Mark Goal Mark Goal Mote: We have made use of teleconferencing for some actions and are looking at doing so while
INDIE - WE HAVE HIADE HSE OF TELECOHTELENCING FOR SOME ACHORS. AND ALE LOOKING AL DOING SO WHILE

one faculty member is out of country during Spring semester, 2008.

Y N Goal N Goal 7. The unit specifies hybrid electric vehicles for travel.
Note: Some faculty request hybrid electric vehicles for professional travel.
Y N Goal N Goal 8. The unit shows preference for sustainable lodging for professional travel.
Note: Some faculty show this preference, but information is not always readily available in advance of travel. Travel allowances sometimes are a barrier.
Y N Goal Solution 9. The unit uses washable dinner/service ware for its meetings/receptions.
Sometimes.
Y N Goal 10. The unit purchases/uses remanufactured office furniture.
Y N Goal 11. The unit purchases/uses sustainable materials for office furnishings.
Interface carpeting is used in office spaces and conference room.
Y N Goal 12. The unit discourages the use of single-occupant automobile travel.
Note: Most professional travel is by individuals traveling alone. When possible, multiple occupancy is encouraged and logistically arranged.
Y N Goal 13. Classroom, Office and/or Restroom lighting for the unit is controlled by occupancy sensors.
Note: Some classrooms in our control have occupancy sensors; they were removed from one room when we experienced annoying problems related to need for controlling lighting. Sensors for use in offices and restrooms will be investigated during the upcoming year
Y N Goal 14. The unit's thermostats are set to minimize energy use for heating and cooling.
Unknown
Curriculum Y N Goal ☑ ☐ 1. The unit has courses dedicated to issues related to sustainability.

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See Governance and Administration, #7 (above).

Y N Goal
See Governance and Administration, #7 (above).
Y N Goal 3. The unit has courses in which students are encouraged to address sustainability issues in their assignments.
See Governance and Administration, #7 (above). Individual assignments vary across courses and faculty, but at least one lab activity on sustainability is included in the introductory course, NREM 101 – Environment and Society, for which annual enrollment is ~ 600 students.
Y N Goal A. The unit recognizes sustainability courses from other departments as legitimate electives for credit in its programs.
Note: These include: ID 400 – Creating a Sustainable Future; LA 371 – Theories and Practices of Sustainable Site Design; LA 471 – Sustainable Land Systems; PHIL 230 – Environmental Ethics; and others (as available).
Y N Goal S. The unit has dedicated sustainability courses that can be taken for credit as part of a major or minor outside of the unit.
Note: These include: NREM 331 – Energy & Mineral Resources; and NREM 335 – Renewable Energy and Sustainable Technology, NREM 211 – Water Resources, NREM 315 – Water Quality, and NREM 385 – Wastewater Management. There may be others of which we are not aware.
Research Y N Goal
At least 3 of the NREM faculty have conducted sustainability research.
Y N Goal ☑ ☐ 2. Members of the unit have published on issues of sustainability in their discipline.
At least two NREM faculty members have published on sustainability.
Y N Goal ⊠ □ □ 3. Members of the unit attend conferences that address issues of sustainability.
At least 2 NREM faculty members attend sustainability conferences.

N Goal

Y

☐ ☐ 4. Members of the unit belong to associations dedicated to sustainability issues. See Governance and Administration, #5 (above).
Y N Goal S. The unit has hosted workshops on issues of sustainability.
Note: We coordinated the annual Green for Green faculty development workshops, 1992-2004, which focused exclusively on sustainability for the last 3 years of the program.
Y N Goal M Goal M 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.
At least 4 NREM faculty members have engaged in sustainability-related outreach, specifically involving students in service learning or immersive projects.
Y N Goal 2. The unit is in partnership with others in the community in the pursuit of sustainability.
NREM works closely with the White River Watershed Project, the Living Lightly Festival, and recent efforts through the Bureau of Water Quality and Muncie Sanitary District. There may be other instances.
Y N Goal 3. The unit participates in community events that address issues of sustainability.
Living Lightly Festival and Greening of the Campus conference.
Y N Goal ☐ 4. The unit has initiated community endeavors in pursuit of sustainability.
These include a Business Fellows project and immersive learning projects (either involving students within a class or outside of classroom engagement).

Existing conditions as baseline (data as available)

In preparing our short-form responses to the questions in the previous section, we accumulated the following data sets. These comprise the numerical underpinnings specific to our (pick one) Center, Institute, Department, College, Vice-Presidency.

A List of Academic Offerings

Topical Sustainability Lectures

These are too numerous to list, as most courses in NREM address sustainability in part or in whole during each course.

Topical Sustainability Modules

No complete inventory is available; sustainability is the primary focus in numerous NREM courses.

Sustainability Courses

Although other courses may focus in part on sustainability, it is the essential core of NREM 331/531 – Energy & Mineral Resources, NREM 335/535 – Renewable Energy and Sustainable Technology, and NREM 309/509 – Sociopolitical Dimensions of Global Environmental Change.

Sustainability Programs

n/a

Sustainability Concentrations

n/a

Sustainability Degree Offerings

n/a

Sustainability Immersive On-and Off-Campus Experiences

Immersive community engagement is offered in NREM 335/535 and via an ongoing Business Fellows program directed out of NREM. Additional NREM courses contain components of immersive community engagement involving sustainability.

Existing conditions as baseline (data as available)

A List of Faculty, Staff and Student Activities

Professional Academic Organizations

International Society for Industrial Ecology North American Lake Management Society Soil and Water Conservation Society

Professional Staff Organizations

n/a

Student Associations and Clubs

Students for a Sustainable Campus Natural Resources Club

Hybrid Fleet Vehicle Use

Routinely requested by some NREM faculty for professional travel

Hybrid Electric Shuttle Bus Use

Information unavailable

Bicycling

Some NREM faculty report bicycling to/from campus on a regular or frequent basis (weather permitting)

Carpooling

Information unavailable

MITS Bio-Diesel Bus Use

Information unavailable

Conference Travel; Carbon Offset Purchases (and others...)

At least one NREM faculty member purchases carbon offsets for conference travel (via Terra Pass)

Existing conditions as baseline (data as available)

A List of Operational Commitments in the Building(s) We Occupy

Building Use: Lamps, Occupancy Sensors, Waterless Urinals

NREM requested occupancy sensors for 2 of its classrooms; one has since been removed.

Material Use/Recycling: Paper, Water, Cartridges, Cans, Glass, Wet Garbage

NREM faculty & staff participate in the campus recycling programs. We routinely recycle printing/copy toner cartridges to a charitable organization, Heads Up! Foundation.

Food Use/Recycling: Local Sourcing, Washable Dinnerware n/a

Goals

Given our assessment of where things stand, we have identified the following goals for our unit.

Governance and Administration

No measures have been considered in this area (to date).

Operations

To the extent possible, adopt and incorporate sustainable practices in the operations of the department, its equipment and facilities.

Curriculum

Routinely offer and further develop new curricular offerings – either whole courses or modules/lectures – emphasizing or addressing sustainability.

Research

Actively engage in scholarly research involving sustainability as one component of the department's overall research agenda

Community Service and Outreach

Actively engage in community outreach involving sustainability as one component of the department's overall community engagement agenda; these efforts will continue to involve immersive learning opportunities for our students, as well as support of community-wide efforts toward sustainability.

Implementation

We have aligned specific action items with the 5-year cycling of the Strategic Plan and anticipate being able to move forward in the respective categorical areas, as described below.

2008 Action Items	Resource Needs
Governance and Administration n/a	None
Operations Where practical, facilities, equipment, an undertaken during AY 2007-2008 to reducentext of sustainable practices.	<u> </u>
Curriculum No actions are expected except to continu modules, and lectures involving sustainab underway during AY 2007-2008.	
Research Faculty will continue to be encouraged to involving sustainability as part of the overwithin NREM.	=
Community Service and Outreach Faculty currently engaged in immersive e opportunities involving sustainability will continue, and others will be encouraged to proposals for future involvement of sustain service and outreach.	be encouraged to consider develop

2009 Action Items	Resource Needs
Governance and Administration Consideration will be given to this within faculty meetings during AY 2008-2009	None
Operations Assessment of facilities, equipment, and operations will be undertaken during AY 2008-2009 to address their impacts in context of sustainable practices.	Unknown
Curriculum Curriculum involving sustainability will be considered for adoption during AY 2008-2009	None
Research Faculty will be encouraged to address topics involving sustainability during AY 2008-2009	None (except as suggested by individual research proposals)
Community Service and Outreach Faculty will be encouraged to address topics involving sustainability during AY 2008-2009	None (except as suggested by individual service/outreach projects)

2010 Action Items	Resource Needs
Governance and Administration Consideration will be given to this within faculty meetings during AY 2009-2010	None
Operations Assessment of facilities, equipment, and operations will be undertaken during AY 2009-2010 to address their impacts in context of sustainable practices.	Unknown
Curriculum Curriculum involving sustainability will be considered for adoption during AY 2009-2010	None
Research Faculty will be encouraged to address topics involving sustainability during AY 2009-2010	None (except as suggested by individual research proposals)
Community Service and Outreach Faculty will be encouraged to address topics involving sustainability during AY 2009-2010	None (except as suggested by individual service/outreach projects)

2011 Action Items

Resource Needs

Governance and Administration Consideration will be given to this within faculty meetings during AY 2010-2011	None
Operations Assessment of facilities, equipment, and operations will be undertaken during AY 2010-2011 to address their impacts in context of sustainable practices.	Unknown
Curriculum Curriculum involving sustainability will be considered for adoption during AY 2010-2011	None
Research Faculty will be encouraged to address topics involving sustainability during AY 2010-2011	None (except as suggested by individual research proposals)
Community Service and Outreach Faculty will be encouraged to address topics involving sustainability during AY 2010-2011	None (except as suggested by individual service/outreach projects)

2012 Action Items	Resource Needs
Governance and Administration Consideration will be given to this within faculty meetings during AY 2011-2012	None
Operations Assessment of facilities, equipment, and operations will be undertaken during AY 2011-2012 to address their impacts it context of sustainable practices.	Unknown
Curriculum Curriculum involving sustainability will be considered for adoption during AY 2011-2012	None
Research Faculty will be encouraged to address topics involving sustainability during AY 2011-2012	None (except as suggested by individual research proposals)
Community Service and Outreach Faculty will be encouraged to address topics involving sustainability during AY 2011-2012	None (except as suggested by individual service/outreach projects)