

# University Sustainability

## *The BSU Story*

Geothermal Conference II  
10 April 2014

Robert J. Koester AIA LEED AP  
Professor of Architecture  
Chair, BSU Council on the Environment



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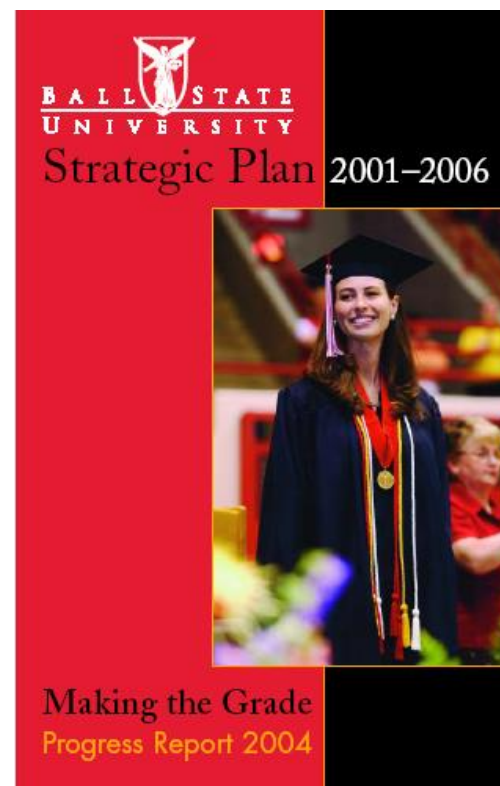
# 2001-06 Strategic Plan

## Goal II

“...promote a learning climate that values civility, diversity, multicultural awareness, appreciation of the arts, healthy and productive living, and

environmental  
Sustainability.”

[www.bsu.edu/strategicplan](http://www.bsu.edu/strategicplan)





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# 2007-12 Strategic Plan

## Goal 4F

“By 2008,...create  
sustainability plans for  
each unit represented.”



[www.bsu.edu/strategicplan](http://www.bsu.edu/strategicplan)



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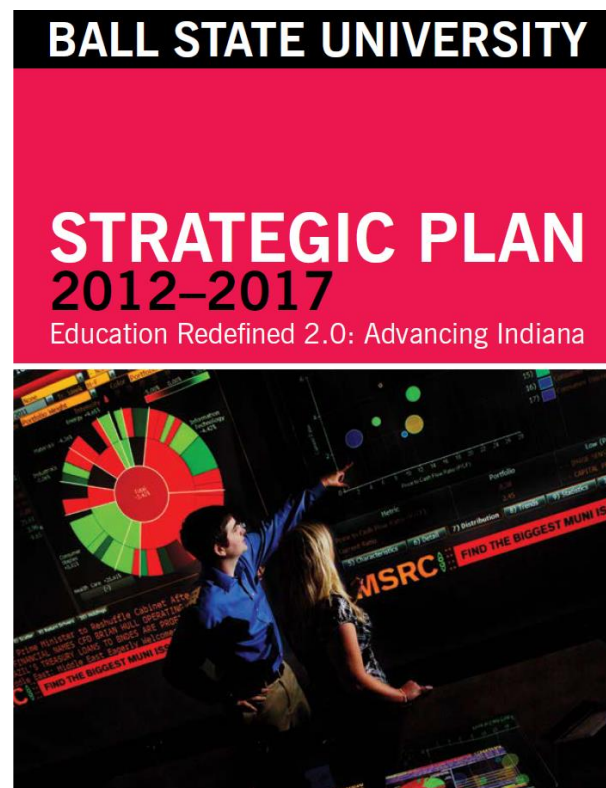
# 2012-17 Strategic Plan

## Goal 3, Objective 3

“continue to position the university as a steward of the environment by...

building on the university’s expertise and success in sustainability.”

[www.bsu.edu/strategicplan](http://www.bsu.edu/strategicplan)





# *The Benchmark Timeline*

1986	Campus Master Plan and Reforestation Commitment
1986	High voltage Infrastructure and Energy Conservation Plan
1991	Green-1 Committee
1992	'Green' for Green Workshops
1996	Greening of the Campus Conference (GOC_I)
1999	Talloires Declaration
2000	Green-2 Committee
2001	<b>Council on the Environment (COTE)</b>
2001	<b>Strategic Plan Integration 2001-06</b>
2005	AASHE (Launched at GOC_VI)
2006	ACUPCC ((President Gora in the Leadership Circle)
2007	<b>Strategic Plan Integration 2007-12</b>
2008	Greenhouse Gas (GHG) Emissions Inventory
2009	Greening of the Campus Conference (GOC_VIII) w/ AASHE
2010	BSU Climate Action Plan 2010-2050
2010	The Geothermal Project
2009	Greening of the Campus Conference (GOC_IX) & Dedication
2012	<b>Strategic Plan Integration 2012-17</b>
2012	ISCN Award for Sustainability Integration
2012	STARS Gold Rating
2013	GeoCon I
2013	USGBC Green Schools Presidential Leadership Award
2014	GeoCon II



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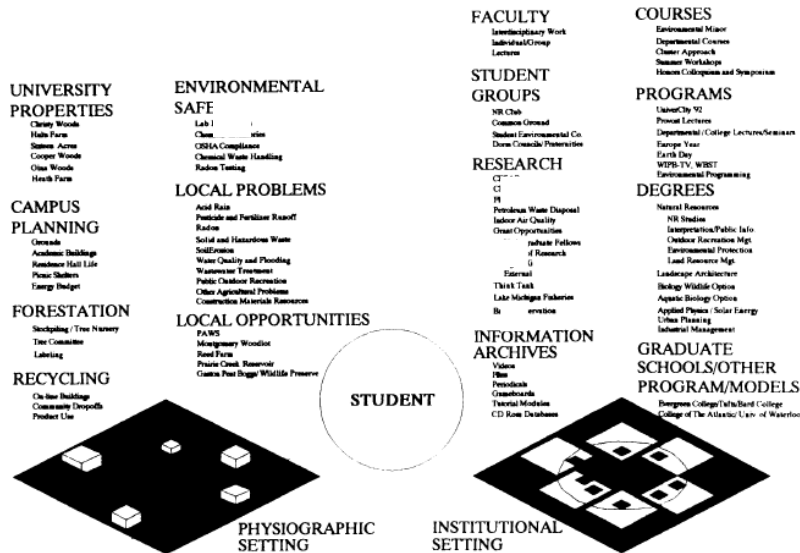
# 1991

## Institutional Setting:

### Green Committee (Green-1) 14 Members

- Dr. Gene Frankland
- Dr. Dale Hahn
- Dr. Ruth Howes
- Dr. Stan Keil
- Dr. Patricia Lang
- Dr. Pamela Miller
- Dr. John Pichtel
- Dr. Harlan Roepke
- Dr. William Rogers
- Dr. Leslie Smith
- Dr. Michael Sullivan
- Dr. Don VanMeter
- Political Science
- Physiology & Health Science
- Physics and Astronomy
- Economics
- Chemistry
- Social Work
- Natural Resources
- Geology
- Biology
- Landscape Architecture
- Geography
- Sciences and Humanities

- Mr. Robert J. Koester
- Dr. B. Thomas Lowe
- CERES, Co-Chair
- Natural Resources, Co-Chair



**35 Recommendations**  
**Immediately Doable**  
**Funding and Time Required**  
**Capital Expense & Structural Change**

### STRUCTURING OPTIONS FOR COGNITIVE MAPPING

( Navigating Environmental Awareness )



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Adrian Adams	(Chemistry)	Beth Ellis	(Speech Communication)	Micell Kriner	(Theatre and Dance)	Carmen Siering	(English)
Abel Alves	(History)	Stacy Embry	(English)	William LaFollette	(Management)	Tom Smith	(Facilities and Management)
Elizabeth Agnew	(Philosophy)	Ronald Ferguson	(Second/Higher/Foundations)	William Landis	(Home Economics)	Stan Sollars	(Telecommunications)
Nazim Ahmed	(Management)	Linda Ferrill	(Education Psychology)	Luke Lassiter	(Anthropology)	Alice Spangler	(Home Economics)
Robin Alexander	(Mathematical Sciences)	Janet Fick	(Family & Consumer Sciences)	Seonmi Lee	(English)	Kimberli Spallen	(Physiology & Health Sciences)
Mir Ali	(Mathematical Sciences)	Robert Fischer	(Psychological Science)	L. Gregory Lund	(Theatre and Dance)	Courtenay Stone	(Economics)
Nagia Ali	(Nursing)	Jack Foley	(Mathematical Sciences)	William McGrath	(Modern Languages/Classics)	Cathy Siebert	(Educational Studies)
Denise Amschler	(Physiology and Health Science)	Thomas Frisbee-Fulton	(Facilities and Management)	Carolyn Maloney	(History)	Marquita Seavy	(English)
Nancy Armstrong	(Elementary Education)	Robert Fritz	(Modern Languages/Classics)	Steph Marzke	(Theatre and Dance)	Richard Seymour	(Industry and Technology)
John Bak	(English)	Shirley Fuelling	(English)	Rosanna Marek	(Nursing)	Jim Shasky	(Telecommunications)
Walt Baker	(Journalism)	Kevin Gamber	(Speech Communication)	Ken Marshall	(Extend Education)	M. K. Shivaswamy	(Accounting)
Linda Barton	(Mathematical Sciences)	Kenneth Gardner	(Sociology)	Nina Marshall	(Art)	Anna Shunk	(Physical Education)
James Barton	(Philosophy & Religious Studies)	Nicole Grant	(Sociology)	Darlene Mathis-Eddy	(English)	Greg Siering	(English)
Michael Bauer	(Speech Communication)	Jeffrey Green	(Management)	Charles McGlaughlin	(Industry and Technology)	Sheila Smith	(BEOA)
Jayne Beilke	(Educational Studies)	André Grimblatt	(Modern Languages & Classics)	Robert McLaren	(Burris)	Howard Snider	(Journalism)
Patricia Beilke	(Second., Higher & Found. Education)	Ronald Groeber	(Finance)	Claudia McVicker	(Elementary Education)	Thomas Spotts	(Industry & Technology)
Becky Bergs	(Mathematical Sciences)	Sue Gullatt	(Modern Languages & Classics)	Frank Kee	(Psychological Science)	Barb Stedman	(English)
Gail Bergsieker	(Mathematical Sciences)	Christina Guntzsch	(Modern Languages/Classics)	Pat Miller	(Psychology)	Truly Stines	(English)
Charles Betz	(Burris)	Gregory Guntzsch	(Mathematical Sciences)	Melissa Kich	(English)	Shari Stoddard	(Art)
Donna Biggs	(Burris)	Keri Hall	(History)	Sylvie Moulin	(Modern Languages & Classics)	Trey Strecker	(English)
Lauren Bishop-Weidner	(English)	Kenton Hall	(Art)	Carolyn Mueller	(Management)	Brad Sullivan	(English)
Scott Blackwell	(English)	Robert Hall	(History)	Stacy Mulder	(English)	Fu-Shing Sun	(Computer Science)
Nancy Blair	(Secondary, Hi Found. Edu)	Robert Hall	(Far Eastern Languages)	Stacy Mulder	(Second, Higher & Foundations)	Srinivasan Sundaram	(Finance)
Bernard Blakely	(Sociology)	William Hammett	(Mathematical Sciences)	Sally Myers	(Art)	Rich Swingley	(Center for Media Design)
Ann Blakey	(Biology)	Mark Hamilton	(English)	Doug Naffziger	(Management)	R. S. Rathinasamy	(Finance)
Shaheen Borna	(Marketing)	Howard Hammer	(Finance)	Cyndi Nothnagel	(Physical Education)	Vinayak Tanksale	(Computer Science)
Mary Bourke	(Nursing)	Amy Harden	(Family and Consumer Sciences)	Chin-Sook Pak	(Modern Languages/Classics)	Cynthia Thomas	(Mathematical Sciences)
Cheryl Bove	(English)	Matt Hartman	(English)	Kathy Papazian	(Nursing)	William Thomson	(Physical Education)
Bruce Bowman	(Art)	Pamela Hartman	(English)	Patricia Parkinson	(Mathematical Science)	Donna Toll	(Mathematical Sciences)
Mark Brandly	(Economics)	Angela Hattery	(Sociology)	Sue Partner	(Mathematical Sciences)	Tom Tomlinson	(Industry & Technology)
Hector Brasil-Laurenzo	(Modern Languages/Classics)	John Hawkins	(Geography)	Janet Pendergast	(Mathematical Sciences)	Allen Truesdell	(BEOA)
William Bock	(Physiology and Health Science)	Sharon Henricksen	(English)	Christina Perera	(Urban Planning)	David Uchurch	(English)
Mallika Bose	(Urban Planning)	Wilma Henzlik	(Physiology & Health Sciences)	Mike Planton	(Facilities Planning and Management)	Tom Tyberg	(Industry & Technology)
Aimee Bott (Joyeaux)	(Art)	John Henzlik	(Physiology and Health Sciences)	Christina Planton	(Urban Planning)	David Uchurch	(English)
Sharon Burgess	(Physical Education)	Melissa Holtzman	(Sociology)	Mark Pyron	(Biology)	Russ Wahlers	(Marketing)
Carol Burt	(Art)	Phillip Howard	(Finance)	Rod Quinlan	(Anthropology)	James Walters	(Management)
Ann Caslan	(Finance)	David Hua	(Industry and Technology)	Julie Ratliff	(English)	Robert Walters	(Modern Languages and Classics)
Carlos Casuscelli	(Architecture)	Martha Hunt	(Landscape Architecture)	Debra Reardon	(Elementary Education)	Sally Wampler	(Industry & Technology)
Teh-Kuang Chang	(Political Science)	Cathy Hunter	(English)	Roger Richard	(Philosophy)	Mary Poston Watkins	(Secondary Education)
Jo Carol Chezem	(Family & Consumer Sciences)	Najma Javed	(Physiology and Health Science)	Alan Richardson	(Telecommunications)	Melody Webler	(BEOA)
Susan Clark	(Physiology and Health Science)	Maude Jennings	(English)	Glenda Riley	(History)	Terry Wiedmer	(Educational Studies)
Jean Comley	(Criminal Justice and Criminology)	Stephen Johnson	(Sociology)	Greg Romano	(English)	Jack Westcott	(Industry & Technology)
David Concepcion	(Philosophy & Religious Studies)	Adrienne Jones	(Academic Advising)	Sharon Rose	(Speech Communication)	Gwen White	(Accounting)
Cathi Cornelius	(Elementary Education)	Charles Jones	(Mathematical Science)	Connie Rowles	(Nursing)	Bonnie Wible	(Secondary, Higher & Foundations)
Carlene D. Creviston	(Finance)	Kyama Kabadaki	(Social Work)	Kris Rugsaken	(Academic Advising)	Dennis Wible	(Secondary, Higher & Foundations)
Barbara Curcio	(Physical Education)	Lenny Kaminsky	(Physical Education)	Patricia Ryan	(Anthropology/English)	Maria Williams-Hawkins	(Telecommunications)
Kenneth Davis	(Art)	Jay Kandiah	(Family & Consumer Sciences)	James Rybarczyk	(Chemistry)	Dianna Wolfe	(Nursing)
Ione DeOlios	(Sociology)	Carolyn Kapinus	(Sociology)	Kelly Schoonaert	(Institute for Wellness)	George Wolfe	(Music)
John Dobelbower	(English)	River Karner	(English)	Robert Schwartz	(Geography)	Beth Wood	(Architecture)
Ronald Dolon	(Social Work)	Jerome Kotecki	(Physiology and Health Science)	Andrew Scott	(English)	William Wrege	(Accounting)
Dixie Denton	(Elementary Education)			David Shawger	(Theatre and Dance)	Jack Wyman	(Architecture)
Shireen Desouza	(Biology)			Carol Shears	(Geography)	Janet Yi	(Mathematical Sciences)
Judy Donahue	(Physical Education)			Usha Shivaswamy	(Academic Assessment)	Jenson Zhao	(BEOA)
John Dorwin	(Anthropology)					Guohe Zheng	(Modern Languages & Classics)
Michael Doyle	(History)					Phyllis Zimmerman	(History)
Linda Dreiman	(Mathematical Sciences)					Bosuk Yoon	(Philosophy)
Carla Earhart	(Family & Consumer Sciences)						
Anthony Edmonds	(History)						
James Eflin	(NREM)						

# 1992-2005

## ‘Green’ for Green Workshops

### Over 230 Participants

‘Short course’ on environment + sustainability  
 Participants compensated with ‘green’  
 Participants develop ideas for curriculum,  
 workplace and/or community



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Institutions: GOC 6

Allegheny College  
American University  
Arizona State University  
Auburn University  
Ball State University  
Ball State University/Cardinal Health  
Bemidji State University  
Berea College  
Boise State University  
Bowdoin College  
Bowling Green State University  
Brown University  
California State Polytechnic University  
California State University  
Central College  
Carnegie Mellon University  
Casper College  
Central College  
Central Washington University  
Clarion University of Pennsylvania  
Clemson University  
Colorado State University  
Concordia University  
Cornell University  
Dixie Valley College  
Drury University  
Duke University  
Duquesne University  
Earlham College  
Eastern Connecticut State University  
Eastern Michigan University  
Florida Gulf Coast University  
Furman University  
Georgia Southwestern State University  
Georgia Tech - STU  
Grand Rapids Community College  
Grand Valley State University  
Grinnell College  
Harvard University  
Indiana State University  
Indiana Wesleyan University  
Indiana University  
Indiana/Purdue University  
Ithaca College  
Kent State University  
Kent State Community College  
Kean University  
LaGrange College  
London South Bank University  
Maryville College  
Massachusetts Institute of Technology  
Michigan State University  
Middlebury College  
Milwaukee Area Technical College  
National Kaohsiung Normal University  
New Hampshire Technical Institute  
Nicolet College  
North Carolina State University  
Northland College  
Oberlin College  
Ohio University  
Pacific Lutheran University  
Radford University  
Randolph-Macon Woman's College,  
Rice University

Milwaukee Area Technical College  
National Kaohsiung Normal University  
New Hampshire Technical Institute  
Nicolet College  
North Carolina State University  
Northland College  
Oberlin College  
Ohio University  
Pacific Lutheran University  
Radford University  
Randolph-Macon Woman's College,  
Rice University  
Rice University  
Santa Clara University  
Sterling College  
Sullivan County Community College  
Temple-Anderson University  
Tennessee State University  
The Evergreen State College  
The Pennsylvania State University  
University of California San Diego  
University of North Carolina-Chapel Hill  
University of North Carolina-Asheville  
University of North Carolina-Greensboro  
University of British Columbia  
University of California at Berkeley  
University of Colorado-Colorado Springs  
University of Connecticut  
University of Delaware  
University of Florida  
University of Idaho  
University of Illinois  
University of Kansas  
University of Maryland  
University of Michigan  
University of Minnesota  
University of Nebraska Medical Center  
University of North Carolina-Charlotte  
University of Pennsylvania  
University of Portland  
University of Rochester  
University of South Carolina  
University of Southern Maine  
University of St. Francis  
University of Texas at Austin  
University of the South  
University of Vermont  
University of Waterloo  
University of Wyoming  
Western Illinois University  
Western Washington University  
Wright State University  
Yale University  
York University

Private Firms: GOC 6

Advanced Pavement Technology  
Bohlin Cywinski Jackson Architects  
Bruce G. Brooks & Associates  
Cinergy Solutions  
CLEAN AIR-COOL PLANET  
Data Power Solution  
Energy Efficient Solutions  
FinnERGY.com  
Good Company  
Green Touchscreen  
J.F. New  
JJR Group  
Powersmiths International  
Sasaki Associates  
SmithGroup  
Solarone Solutions  
Sustainable Design Consulting  
TerraLogos eco architecture PC  
The FWA Group

Organizations: GOC 6

Association of College Unions International  
EcoVillage at Ithaca  
Education for Sustainability Western Network  
National Wildlife Federation  
Niagara Escarpment Commission  
PA Dept. of Conservation  
PA Dept. of Environmental Policy  
SC Sustainable University Initiative  
Sierra Youth Coalition  
Society for College and University Planning  
The Meadville Community Energy Project  
The Star Press  
US Partnership for the Decade of Education  
Vermont Campus Energy Group

1996-2012

# 'Greening' of the Campus Series

## Over 3700 Participants

~ 450 Colleges and Universities

~ 250 Private Firms

~ 200 Organizations





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# Earth Day 1999

## Talloires

- “...find opportunities to address urgent need...” : Publics  
“...formulate education, research and policy ...” : Universities  
“...teach ecologically literate, responsible citizens...” : Students  
“...invest in personnel development...” : Faculties  
“...undertake institutional best practices...” : Exemplars  
“...target support for research, education, policy...” : Funders  
“...engage in outreach activities...” : Practitioners  
“...promote K-12 linkages...” : Schools  
“...participate in worldwide effort...” : Organizations  
“...inform, support, continue momentum...” : Secretariat

### THE TALLOIRES DECLARATION

WE, THE PRESIDENTS, RECTORS, AND VICE CHANCELLORS OF UNIVERSITIES FROM ALL REGIONS OF THE WORLD are deeply concerned about the unprecedented scale and speed of environmental pollution and degradation, and the depletion of natural resources.

Local, regional, and global air and water pollution; accumulation and distribution of toxic wastes; destruction and depletion of forests, soil, and water; depletion of the ozone layer and emission of “green house” gases threaten the survival of humans and thousands of other living species, the integrity of the earth and its biodiversity, the security of nations, and the heritage of future generations. These environmental changes are caused by inequitable and unsustainable production and consumption patterns that aggravate poverty in many regions of the world.

We believe that urgent actions are needed to address these fundamental problems and reverse the trends. Stabilization of human population, adoption of environmentally sound industrial and agricultural technologies, reforestation, and ecological restoration are crucial elements in creating an equitable and sustainable future for all humankind in harmony with nature.

Universities have a major role in the education, research, policy formation, and information exchange necessary to make these goals possible. Thus, university leaders must initiate and support mobilization of internal and external resources so that their institutions respond to this urgent challenge.

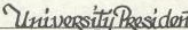
WE, THEREFORE, AGREE TO TAKE THE FOLLOWING ACTIONS:

- 1) Use every opportunity to raise public, government, industry, foundation, and university awareness by openly addressing the urgent need to move toward an environmentally sustainable future.
- 2) Encourage all universities to engage in education, research, policy formation, and information exchange on population, environment, and development to move toward global sustainability.
- 3) Establish programs to produce expertise in environmental management, sustainable economic development, population, and related fields to ensure that all university graduates are environmentally literate and have the awareness and understanding to be ecologically responsible citizens.
- 4) Create programs to develop the capability of university faculty to teach environmental literacy to all undergraduate, graduate, and professional students.
- 5) Set an example of environmental responsibility by establishing institutional ecology policies and practices of resource conservation, recycling, water reduction, and environmentally sound operations.
- 6) Encourage involvement of government, foundations, and industry in supporting interdisciplinary research, education, policy formation, and information exchange in environmentally sustainable development. Expand work with community and nongovernmental organizations to assist in finding solutions to environmental problems.
- 7) Convene university faculty and administrators with environmental practitioners to develop interdisciplinary approaches to curricula, research initiatives, operations, and outreach activities that support an environmentally sustainable future.
- 8) Establish partnerships with primary and secondary schools to help develop the capacity for interdisciplinary teaching about population, environment, and sustainable development.
- 9) Work with national and international organizations to promote a worldwide university effort toward a sustainable future.
- 10) Establish a Secretariat and a steering committee to continue this momentum, and to inform and support each other's efforts in carrying out this declaration.

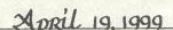
  
SIGNATORY



  
INSTITUTION

  
TITLE

ULSF

  
DATE

Association Of  
UNIVERSITY LEADERS  
FOR A  
SUSTAINABLE FUTURE



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# 2000

## Green Committee (Green-2) 94 Members

### PLANNING COMMITTEE

Robert Koester, Co-chair  
Tom Lowe, Co-chair  
James Eflin, Resource  
Dave Ferguson, Resource  
John Vann, Resource  
Jeff Culp, Web Manager

### STEERING COMMITTEE

Planning Committee and Subcommittee Chairs

### THE PUBLICS

Nancy Carlson, Telecommunications  
Subcommittee Chair  
Dave Ferguson, Resource Person  
Donna Biggs, Burris  
Ron Bonham, Community Member  
Hugh Brown, NREM  
Eric Davenport, Student  
Kay Hodson-Carlton, Nursing  
Kevin Kenyon, Business Affairs  
Tom Morrell, Biology  
Glenda Riley, History  
Jim Shasky, Telecommunications  
Gordon Stagge, Community Member  
Phyllis Yuhas, Community Member

### THE UNIVERSITIES

Phil Repp, Art and VIA  
Subcommittee Chair  
Dave Ferguson, Resource Person  
Abel Alves, History  
Shirley Grier, Student  
Michael O'Hara, Theater and Dance  
Les Smith, Landscape Architecture  
Tom Smith, Facilities Planning

### THE SCHOOLS

John Motloch, Landscape Architecture  
Subcommittee Chair  
John Vann, Resource Person  
Jim Coffin, International Programs  
Shireen DeSouza, Biology  
Jim Kirkwood, Industry and Technology  
Amy Kress, Community Member  
Bobby Malone, Educational Leadership  
Tolulope Olowomeye, Student  
Larry Smith, Elementary Education  
Nancy Watson, Burris

### THE EXEMPLARS

Mike Planton, Facilities Planning  
Subcommittee Chair  
John Vann, Resource Person  
Martha Hunt, Landscape Architecture  
Brian Kelley, Computing Services  
Cheryl LeBlanc, Biology  
Jim McClure, Economics  
Douglas Naffziger, Management  
Les Richardson, Facilities  
Jim Segedy, Urban Planning  
Lynn Sousa, Chemistry  
Peter Tallman, Student  
Liz Vanmatre, Dining Services  
Don VanMeter, Administration  
Ted Wolner, Architecture

### THE STUDENTS

Barb Stedman, English  
Subcommittee Chair  
John Vann, Resource Person  
Kemuel Badger, Biology  
Michael Bauer, Communications  
Gary Dodson, Biology  
Andrew Slack, Geography  
Nicole Wolf, Student

### THE PRACTITIONERS

Ray Montagno, Management  
Subcommittee Chair  
James Eflin, Resource Person  
John Craddock, Community Member  
Thomas Frisbie-Fulton, Facilities  
Jamey McDaniel, Chemistry  
Dave Nawrocki, Student  
John Pichtel, NREM  
Phil Tevis, Community Member  
Gwen White, Accounting

### THE FUNDERS

Jim Flowers, Industry & Technology  
Subcommittee Chair  
Dave Ferguson, Resource Person  
Steve Anderson, Community Member  
Barry Banks, Community Member  
Jeff Grigsby, Geology  
Mahfuza Khatun, Physics  
Kristi Koriath, Academic Research  
and Sponsored Programs  
Tom Lauer, Biology  
John Taylor, Student  
Paul Wohit, Anthropology

### THE ORGANIZATIONS

Pedro Pacheco, Doctoral Student  
Subcommittee Chair  
James Eflin, Resource Person  
Alfredo Fernandez, Architecture  
Gene Frankland, Political Science  
Brian Gordy, Community Member  
Kyama Kabadaki, Sociology  
Stan Keil, Economics  
Mike Lannoo, Community Member  
Barbara Maves, Community Member  
Nihal Perera, Urban Planning  
Susan Taylor, University Libraries  
Holly Truemper, Student

### THE FACILITIES

Thalia Mulvihill, Educational Studies  
Subcommittee Chair  
James Eflin, Resource Person  
William Bock, Physiology & Health  
Charles Jones, Teaching & Learning  
Aimee Joyaux, Art  
Tim Lyon, NREM  
Lina Rosengren, Student  
George Smith, Landscape Architecture

## 186 Action Items

## Operational Structure **COTE**

# Council on the Environment (COTE)

## Administrative Support

Mr. Robert Koester	Council Chair
Dr. James Eflin	Resource Person
Mr. Justin Miller	Green Development Specialist
Dr. John Motloch	Resource Person
Dr. John Vann	Green Initiatives Coordinator
Ms. Peggy Weis	Office Support
Mr. Jeff Culp	Web / Technical Resources Manager

## Student Members

Ms. Vivian J. Bogue	Graduate Student
Ms. Carissa Hipsher	Undergraduate Student
Ms. Beth Cahill	Student Government
Ms. Alessandra Strickland	Undergraduate Student

## University Area Representatives

Dr. David Conception	College of Sciences and Humanities
Mr. Vernon Draper	Information Technology
Dr. Michelle Dudka	Teachers College
Dr. Gene Frankland	College of Sciences and Humanities
Mr. Kevin Kenyon	Business Affairs
Dr. Karin Lee	Intercollegiate Athletics
Mr. Michael Mayfield	Contract Faculty
Dr. Robert Morris	Academic Affairs
Dr. Sally Myers	College of Fine Arts
Dr. Klaus Neumann	College of Sciences and Humanities
Ms. Amy Reed	University Advancement
Dr. Mary Annette Rose	College of Applied Sciences and Technology
Ms. Ro Anne Royer Engle	Student Affairs
Mr. James Shimkus	University Libraries
Ms. Sheryl Swingley	College of Communication, Information & Media
Dr. Gwendolen White	College of Business
Mr. Ted Wolner	College of Architecture and Planning

## Community Members

Mr. Barry Banks	Red-tail Conservancy, Inc.
Ms. Betty Brewer	Minnetrista Cultural Center
Mr. Jon Creek	Sierra Club
Mr. Richard Shelton	Ball Memorial Hospital
Dr. Warren Vander Hill	Founder, Emeritus

# 2008 AASHE STARS

(Unit-Level Sustainability Plans)

## Education and Research

Co-curricular Education  
Curriculum  
Research

## Planning & Administration

Coordination and Planning  
Diversity and Affordability  
Human Resources  
Investment  
Public Engagement

## Operations

Buildings  
Climate  
Dining Services  
Energy  
Grounds  
Purchasing  
Transportation  
Waste  
Water



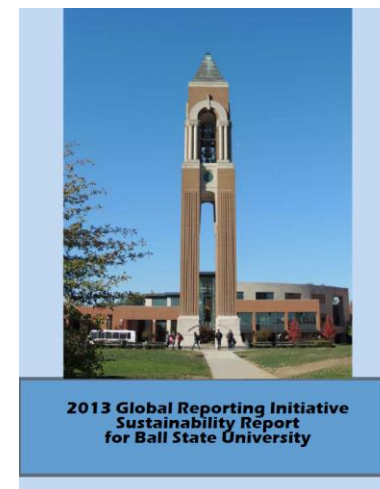
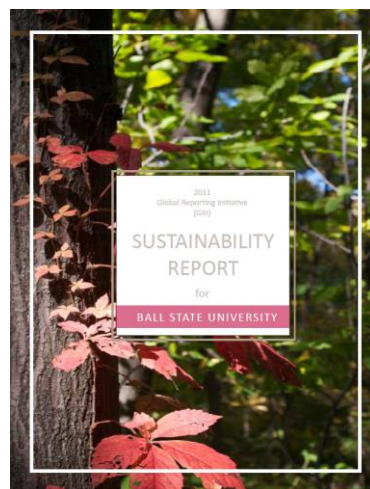
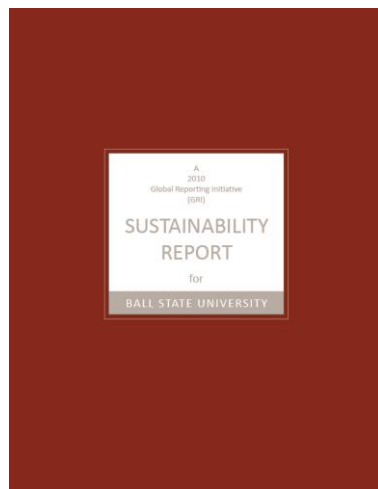


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# 2010-14 GRI

## Global Reporting Initiative

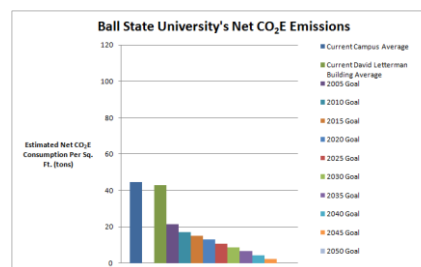




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# LEED





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# 2006 ACUPCC



## The Founding Members of the Presidents Climate Commitment Leadership Circle

Loren Anderson, President  
Pacific Lutheran University

Michael Crow, President  
Arizona State University

Nancy Dye, President  
Oberlin College

Jo Ann Gora, President  
Ball State University

David Hales, President  
College of the Atlantic

### The Founding Members of the Presidents Climate Commitment Leadership Circle

Loren Anderson, President  
Pacific Lutheran University

Michael Crow, President  
Arizona State University

Nancy Dye, President  
Oberlin College

Jo Ann Gora, President  
Ball State University

David Hales, President  
College of the Atlantic

Bernard Machen, President  
University of Florida

Gifford Pinchot III, President  
Bainbridge Graduate Institute

Kathleen Schatzberg, President  
Cape Cod Community College

Mary Spilde, President  
Lane Community College

Douglas Treadway, President  
Ohlone College

Darroch Young, Chancellor  
Los Angeles Community  
College District

Paul Zingg, President  
California State University, Chico

December 10, 2006

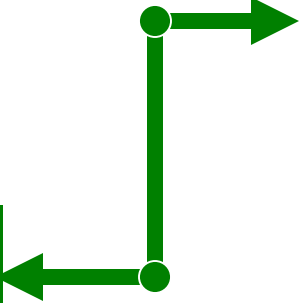
Dear Colleague,

We invite you to join us in becoming a charter signatory to the American College & University Presidents Climate Commitment, a pledge to take a leadership role in addressing one of the defining challenges of the 21st century—global warming. This letter is being sent to you because of your campus's leadership in many of the areas related to creating a healthy, thriving, just and sustainable world.

Like you, we are deeply concerned about the unprecedented scale and speed of global warming and its potential for large-scale, adverse health, social, economic and ecological effects. By signing the Presidents Climate Commitment we are agreeing to develop a long-range plan for our institutions that will reduce and ultimately neutralize greenhouse gas emissions on our campuses. In the process, we will educate the next generation of leaders and professionals and show our communities and other societal institutions that there are large competitive benefits to proactively engaging in this effort.

Modeled after the U.S. Mayors Climate Protection Agreement, the initiative seeks to identify at least 200 college and university presidents who will become charter signatories to the commitment at a major public summit in June 2007. We hope to get over 1,000 signatories by the end of 2009.

Enclosed is information about the program and how you can sign on to the commitment. A key document is a Letter of Intent that we hope you will sign in order to express your interest in joining us in this commitment. We also need to know, no later than January 19, 2007, if you would like to join the Leadership Circle and help shape the initiative and lead the effort to engage our peers in becoming charter signatories.



# GREENHOUSE GASES (GHG) EMISSIONS REPORT

August 2008

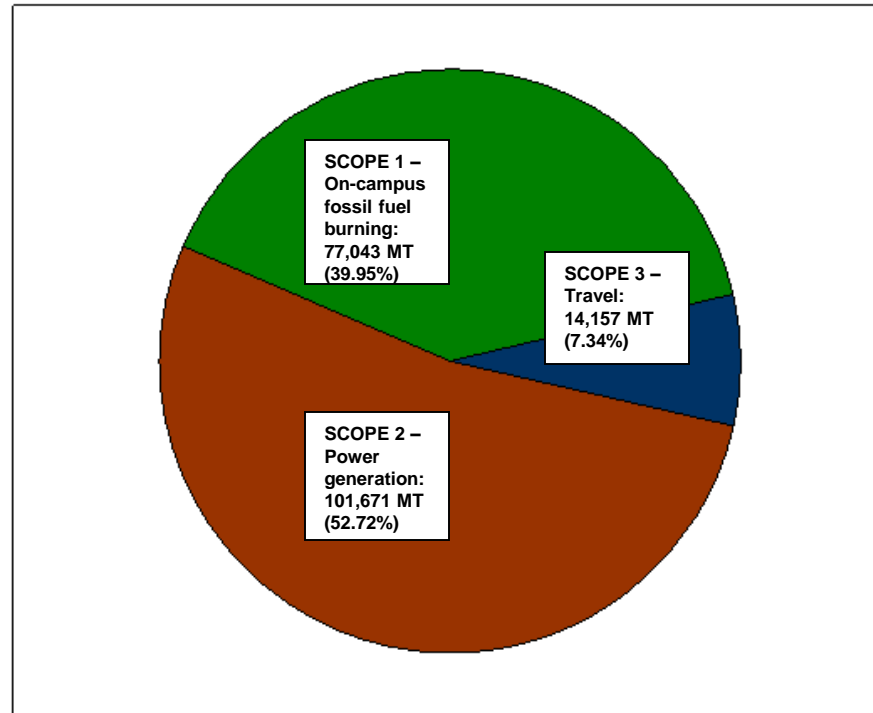


BALL STATE  
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# 2008



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UNIVERSITY.  
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## The Structure, Content and Implementation of the Ball State University Climate Action Plan: 2010-2050

### An Executive Summary

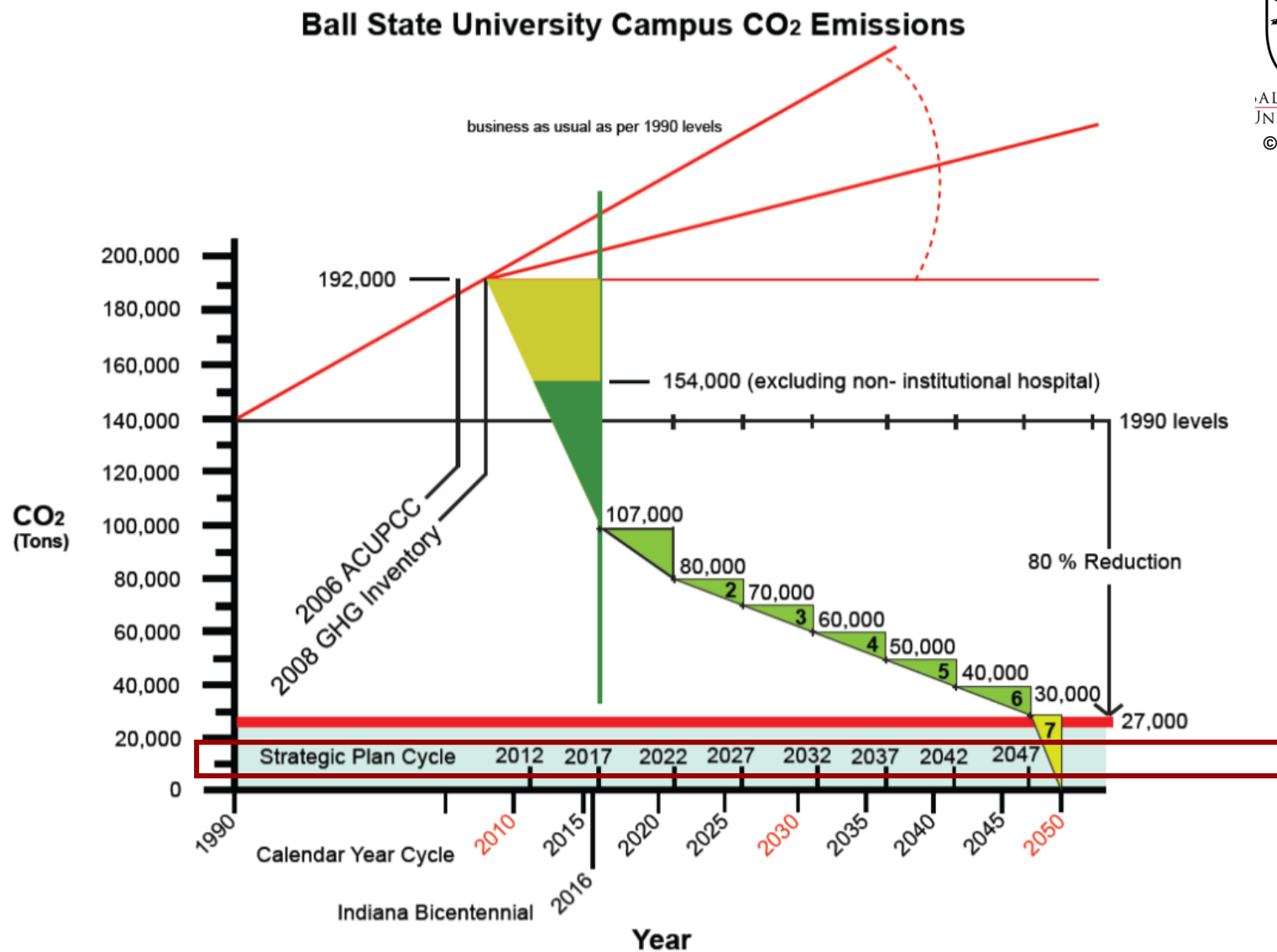
Nothing is cleaner than  
a BTU or kilowatt hour you do not need and do not consume.

A hierarchy for GHG emissions reduction;  
the multiplier effect...

- \_\_\_ 1/2 the need
- \_\_\_ 1/2 the energy (2 x the efficiency)
- \_\_\_ 1/2 the carbon in the energy supplied.

This results in 1/8 of the original carbon intensity





Integrate GHG Reduction with Strategic Planning

# Operations

## BSU Geothermal

- 2 energy stations
- 3600 boreholes
- 47 buildings
- 2-5 year build out
- Total \$ ~83 mil
- Incremental \$25 mil
- \$2 mil Savings per Year
- ~ 8% ROI





# Operations

- 1 Information Transparency, Monitoring and Reporting
- 2 Energy Conservation: Geothermal District H&C  
Energy Conservation: Information Technology  
Energy Conservation: Transportation  
Energy Conservation: Buildings  
Energy Conservation: Policies
- 3 Electrical On-Site Solar-Photovoltaic (PV) Production  
Electrical Off-Site Wind-Energy Production  
Electrical Off-Site PV Production

# BALL STATE UNIVERSITY EDUCATION REDEFINED

- ABOUT
- ADMISSIONS
- ACADEMICS
- CAMPUS LIFE
- ATHLETICS
- NEWS
- CALENDAR
- GIVING



Home » Academics » Centers and Institutes » Council on the Environment » Sustainability at Ball State

Welcome: [www.bsu.edu/sustainability/](http://www.bsu.edu/sustainability/)

As you will learn from our links and menus on this page, our university community has adopted a [Statement on Sustainability](#), we are a signatory to the [American College and University Presidents Climate Commitment \(ACUPCC\)](#) and the [Talloires Declaration](#); and we are a charter school member of the [Sustainability Tracking Assessment and Rating System \(STARS\)](#). We have integrated sustainability into our [Unit-level Strategic Plans](#) and are installing a 45-building [Geothermal District Heating and Cooling System](#) to reduce our Greenhouse Gas emissions.

We host biennial [Greening of the Campus \(GOC\) Conferences](#) and our [Council on the Environment \(COTE\)](#) is the longest-standing such committee among colleges and universities in Indiana. We offer a broad range of academic programs that engage sustainability and we sponsor student groups such as the [Ball State Energy Action Team \(BEAT\)](#), [Emerging Green Builders \(EGB\)](#), the [Natural Resources Club \(NRC\)](#), and [Students for a Sustainable Campus \(SSC\)](#).

Finally, we encourage you to survey and/or use our new STARS reporting tool: [Mapping Sustainability at BSU](#).

- BSU Sustainability Statement
- ACUPCC
- BSU Geothermal
- Clustered Minors in Sustainable Practices
- COTE Home
- Greening of the Campus Conferences
- Mapping Sustainability at BSU
- STARS
- Recognitions
- Student Groups
- Talloires Declaration
- University Unit Sustainability Plans

c/o The Center for Energy Research/Education/Service (CERES)  
 Architecture Building (AB), Room 018  
 Ball State University  
 Muncie, IN 47306

Hours: Academic Year: 8 a.m.–5 p.m.

# Celebrate, Facilitate, Anticipate

## Mapping Sustainability at Ball State University

### Directions

Click on an icon in the toolbar below the map to filter categories

Click on an icon on the map to the right for more information

Click on the campus map below to return to homepage



## 'Get on the Map'

...useful in reporting-out your own good work and in finding that of other administrators, faculty, staff and students throughout the university community.

The organizational structure of icons for information display is that of the Sustainability Tracking Assessment and Rating System (STARS).

