

What is Climate Leadership: Spotlight on Innovative Partnerships

Tuesday, May 5, 2015

Presented by:

Melissa Klein, U.S. EPA

Katie Mandes, Center for Climate and Energy Solutions (C2ES)

Guest Speakers:

Laura Engeman, Manager, San Diego Regional Climate Collaborative

Robert J. Koester, Professor of Architecture and Director, Center for Energy
Research/Education/Service, Ball State University

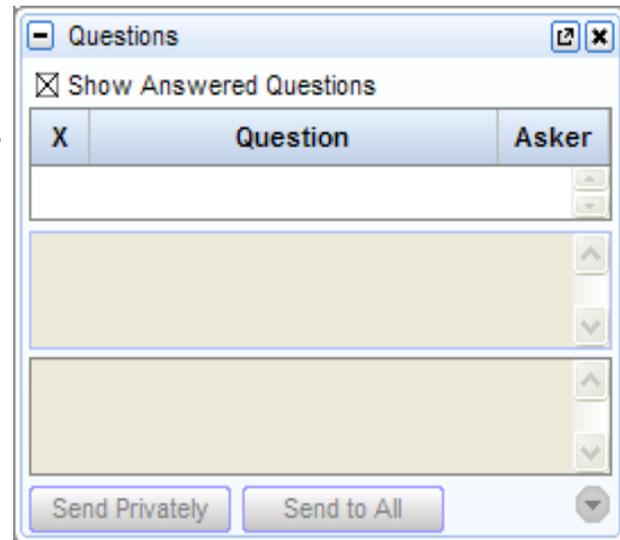


Webinar Agenda

- Introduction and webinar logistics
- Climate Leadership Awards: Innovative Partnerships
Guest Speakers
 - Katie Mandes (moderator), Vice President of Community Engagement, Center for Climate and Energy Solutions (C2ES)
 - Laura Engeman, Manager, San Diego Regional Climate Collaborative
 - Robert J. Koester, Professor of Architecture and Director, Center for Energy Research/Education/Service, Ball State University. Partner in the Chevrolet Clean Energy Campus Campaign
- Q&A
- Post-webinar survey

Webinar Logistics

- Attendees are muted to reduce background noise.
- Submit questions and comments in writing via the online control panel. →→ →
- To minimize or maximize the control panel, click on the button at the top left of the tool bar.
- Post-webinar survey on this webinar and topics for future webinars.
- Today's presentations will available at:
<http://www.epa.gov/climateleadership/events/2015-05-05-webinar.html>





About the Center

- A resource center for organizations of all sizes looking to expand their work in the area of greenhouse gas (GHG) measurement and management.
- Provides technical tools & guidance, educational resources, opportunities for information sharing (e.g., Webinars) and peer exchange.
- Promote practices that reduce GHG emissions, drawing upon the successes of Climate Leadership Award recipients and innovations by organizations.
- Support the implementation of E.O. 13693.



Climate Leadership Awards

Climate Leadership Awards

- Launched in 2012 with NGO partners including the Center for Climate and Energy Solutions (C2ES).
- Awards recognize exemplary corporate, organizational, and individual leadership in addressing climate change.
 - Innovative Partnerships – New in 2015 - is 1 of 6 categories
- EPA is also the headline sponsor for the Climate Leadership Conference.





CLIMATE
LEADERSHIP
AWARDS

INNOVATIVE PARTNERSHIPS CERTIFICATE

Katie Mandes

Vice President for Community Engagement
Center for Climate and Energy Solutions (C2ES)

The Role of Innovative Partnerships



Partnerships in Action

- **Benefits of Partnering**

- Accelerate goal achievement
- Build positive associational value
- Co-create new, innovative products and solutions
- Leverage shared resources

- **Types of Partnerships**





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Achieving Successful Partnerships

• Common Challenges

- Circumstances external to the partnership
- Unclear goals
- High transaction costs
- Unequal risk allocation
- Lack of trust

Strategies for Success

- ✓ Identify clear reasons to collaborate
- ✓ Find a ‘fairy godmother’
- ✓ Set simple, credible goals
- ✓ Get professional help
- ✓ Dedicate the right resources
- ✓ Be flexible in defining success
- ✓ Prepare to let go

Source: McKinsey & Company, July 2014.



The Climate Registry



CLIMATE
LEADERSHIP
AWARDS

Innovative Partnerships Certificate

Requirements

- Open to partnerships comprised of two or more primary stakeholders from government entities, academic institutions and/or the private sector.
- Partnerships exclusively comprised of private sector stakeholders may be considered if the nature of the activity is sufficient in magnitude of GHG emissions reduction and/or adaptation implementation to merit recognition.
- Partnerships must be:
 - Currently active;
 - Based upon or supported by a legal agreement/arrangement that accounts for governance, roles, funding, etc.; and,
 - Publicly described as being driven and/or motivated by an imperative to take climate action.
- Activities must be located in the United States (though the primary stakeholders are not necessarily required to be headquartered in the United States).
- Reviewed by an independent panel of reviewers and considered on a competitive basis in comparison to other applicants.



The Climate Registry



CLIMATE
LEADERSHIP
AWARDS

Innovative Partnerships Certificate

2015 Winner: San Diego Regional Climate Collaborative

- The San Diego Regional Climate Collaborative is a member-based network that supports San Diego public agencies in advancing solutions to increase energy efficiency, reduce greenhouse gas emissions, and prepare for climate impacts. The Climate Collaborative builds partnerships to share expertise, leverage resources, and advance actions that benefit the region's communities, economy, and natural resources.
 - Engages public agencies and stakeholders regarding strategies and lessons learned from state and regional projects. Works to make available valuable information about state climate policy developments, tools, funding opportunities, and other resources.
 - Supports members in setting and meeting GHG reduction goals.
 - Builds capacity for public agency staff to undertake actions to increase energy efficiency and address climate change.
 - Has successfully supported pilot projects that integrate climate change preparedness into regional-scale policies or plans.
- This partnership is a replicable model for other regions, and has significant public engagement and stakeholder outreach.



CENTER FOR CLIMATE
AND ENERGY SOLUTIONS



The Climate Registry



CLIMATE
LEADERSHIP
AWARDS

Innovative Partnerships Certificate

2015 Winner: Chevrolet Clean Energy Campus Campaign

- The Chevrolet Clean Energy Campus Campaign provides funding to purchase and retire carbon reductions from clean energy efficiency projects on U.S. college and university campuses. The partnership created a methodology enabling campuses to draw upon a new source of funding—carbon credit from the carbon market—to help them invest in more energy efficient technologies.
 - Created a way for campuses to access the benefits of GHG reductions and drive deeper energy efficiency and clean energy gains. Top-performing schools are able to sell their GHG reductions as certified carbon credits, and then fund new efficiency and clean energy projects on campus—driving greater GHG reduction gains in the future.
 - Marks the first time college campuses have been able to use carbon performance methodologies to earn revenue via GHG reductions.
 - Has set a 100 percent absolute GHG reduction goal through 2014 (2012 base year).
 - Consists of 19 primary partners; has engaged dozens of students; and engaged hundreds of stakeholders spanning the education, energy, carbon, auditing, and nonprofit sectors.



The Climate Registry



**Climate
Collaborative**

SAN DIEGO REGION





CLIMATE LEADERSHIP AWARDS

2015 Innovative Partnerships
Certificate Recipient



15 MEMBERS

5 Cities

5 Regional Agencies

2 Academic

Institutions

1 Non-Profit

1 Utility

1 Philanthropic Entity





Mayor Kevin Faulconer



CITY OF SAN DIEGO CLIMATE ACTION PLAN

GHG Reductions

**19 Local
Government GHG
Inventories**

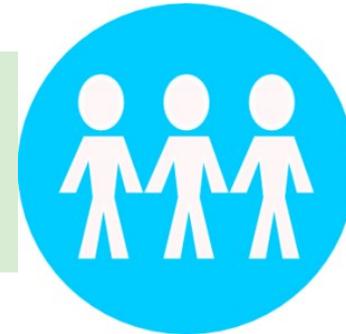
**13 CAPs adopted
or in
development**

DRAFT March 2015

- Leveraged SDG&E Local Government Partnerships
- Established a Steering Committee
- Drafted a Charter
- Peer to Peer exchange of best practices, lessons learned

Energy
Efficiency &
Mitigation
Focused Forum

A Network that
has Staff and
Provides Services



Adaptation and
Developed
Governance
Structure

San Diego Bay Sea Level Rise Adaptation Strategy





Partnering with the Local Government Commission to host and supervise the CivicSpark AmeriCorps program.

- 1 of 9 regional Collaboratives invited to Washington DC to share strategies for local level climate planning and energy efficiency



- San Diego Highlighted at California Adaptation Conference in 5 Panels

San Diego Expertise at the California Adaptation Forum

On August 19-20, 2014, California held the first ever conference focused on state climate adaptation planning and implementation practices, called the **California Adaptation Forum**.

The event was a great opportunity to learn from other regions and for San Diego Climate Collaborative members to share climate preparedness and energy efficiency strategies and expertise with others. Specific panel presentations that featured Climate Collaborative members included:

- Building Regional Collaboratives to Accelerate Adaptation Success
- Common Ground: Integrating Nature, Infrastructure and People into Sea-Level Rise Planning
- Looking to Mainstream Perspectives on Incorporating Climate Change in Hazard Mitigation Plans
- Planning for Climate Change Impacts: A Transportation Perspective
- Jurisdiction, Governance, and Land Use Planning as the Sea Rises





Regional Collaborations

ARCCA Alliance of Regional Collaboratives
for Climate Adaptation



Climate Education Partners
.....SAN DIEGO REGION
For San Diego's Future

San Diego, 2050 Is Calling.
HOW WILL WE ANSWER?

Introducing Green Infrastructure:
Approaches to Prepare for San Diego's Changing Climate

FREE Professional Training





**Climate
Collaborative**
SAN DIEGO REGION

For more information, contact:

Laura Engeman, Manager

(949) 361-8929

laura@sdclimatecollaborative.org

www.sdclimatecollaborative.org



BALL STATE
UNIVERSITY.

‘Spotlight on Innovative Partnerships’

The Chevrolet Campus Clean Energy Campaign

An EPA Webinar

Robert J. Koester, AIA LEED AP
Professor of Architecture
Director of CERES

Chair, Council on the Environment
University Liaison for ACUPCC, IGCCN, ISCN, STARS, USGBC



BALL STATE
UNIVERSITY.

Forming the Partnership

Determining the fit of opportunity to the needs and limitations of a publicly-assisted university.

...researching and piloting a new methodology whereby colleges and universities can access the Voluntary Carbon Market to drive carbon reduction more deeply; to reach more quickly their American College and University Presidents' Climate Commitment for achieving climate neutrality.

The Partnership

AASHE

- Clearinghouse

ACUPCC

- Public Reporting

Ball State University

- Piloting School for Campus-Wide Projects

Bonneville Environmental Foundation

- Managing the VCM Transactions

Chevrolet Campus Clean Energy Campaign (Climate Reduction Initiative)

- Funding Development of the Methodology and Financial Transactions

Climate Neutral Business Network

- Authoring the Qualifying Methodology

Det Norske Veritas

- Validation/Verification Third-party Review

Verified Carbon Standard

- Voluntary Carbon Market (VCM) Reporting
-



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Required Effort

Nearly four years of interaction with all players

...developing/testing the methodology, formulating the protocols, collecting the needed information for preparing documentation and executing reports.

Required Effort

Piloting Methodology Development

- Negotiating Transaction Agreement
- Gathering Emissions Data for each FY
- Determining Qualifications
- Reporting Findings

Preparing Submission Materials

- CACP Calculator Spreadsheets
 - Project Description Document
 - Monitoring Report
 - Validation Report
 - Verification Report
-

Project Description Document

CAMPUS-WIDE CLEAN ENERGY & ENERGY EFFICIENCY: PROJECT DESCRIPTION DOCUMENT



BALL STATE
UNIVERSITY.

Document Prepared By
Center for Energy Research/Education/Service
CERES
Robert J. Koester AIA LEED AP
Director

Project Title	Ball State University Campus-Wide Clean Energy Efficiency Project: District-Scale Geothermal (Closed-Loop, Ground-Source) Heat Pump Chiller Heating and Cooling System
Version	5
Date of Issue	1-October-2014
Prepared By	Center for Energy Research/Education/Service (CERES)
Contact	2000 University Avenue AB 018 Muncie Indiana 47306-0170 765.285.1135 rkoester@bsu.edu www.bsueu/sustainability

The following resources and tools are provided for use by campuses to assess whether they want to pursue certification by VCS. The resources and tools are offered for assistance only and a campus' use of the resources and tools is at its sole discretion and expense. Alternatively, campuses are free to develop their own tools to generate the necessary information to give to VCS for possible certification if they wish to do so. Use of these resources and tools does not guarantee certification by VCS. In addition, neither the use of these tools nor the successful certification by VCS will necessarily result in the purchase of credits by BEF or Chevrolet.

v3.2 If any tool (PDD, Excel Templates etc) or consultations have been supplied directly or indirectly by Chevrolet or CNBN, project proponents assume responsibility for all responses and hold all other parties harmless. 1

FINAL_BallState_University_VCS Project Description Document_14October_2014_v3.2.doc

CAMPUS-WIDE CLEAN ENERGY & ENERGY EFFICIENCY MONITORING REPORT



BALL STATE
UNIVERSITY.

Document Prepared By:
Center for Energy research/Education/Service
(CERES)



Project Title	Ball State University Campus-Wide Clean Energy Efficiency Project: District-Scale Geothermal (Closed-Loop, Ground-Source) Heat Pump Chiller Heating and Cooling System
Version	4
Report ID	Under Registration
Date of Issue	6-March-2015
Project ID	1354
Monitoring Period	07-01-2011 to 12-31-2014
Prepared By	Robert J. Koester AIA LEED AP
Contact	2000 University Avenue AB 018 Muncie Indiana 47306-0170 765.285.1135 rkoester@bsu.edu www.bsueu/sustainability

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BSU_Monitoring_Report vs 3 for 6.9-7.0 CACP_FY_15_decimal_percentage[1]_SH Feb 26 March 3 FINAL.doc 1



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Challenges

Development of the documentation

...required to qualify for acceptance in the voluntary carbon market, execute the BEF transactions, update /revise other public reporting.

Challenges

Conducting Internal Data Harvests

- FY Energy Use Exhibits

Preparing, Tweaking and Editing

- CACP Calculations (ACUPCC Format)
- Qualifying Methodology
- Project Description Document
- Monitoring Report
- Validation Report
- Verification Report

Updating Public Reporting

- ACUPCC, STARS and GRI
-

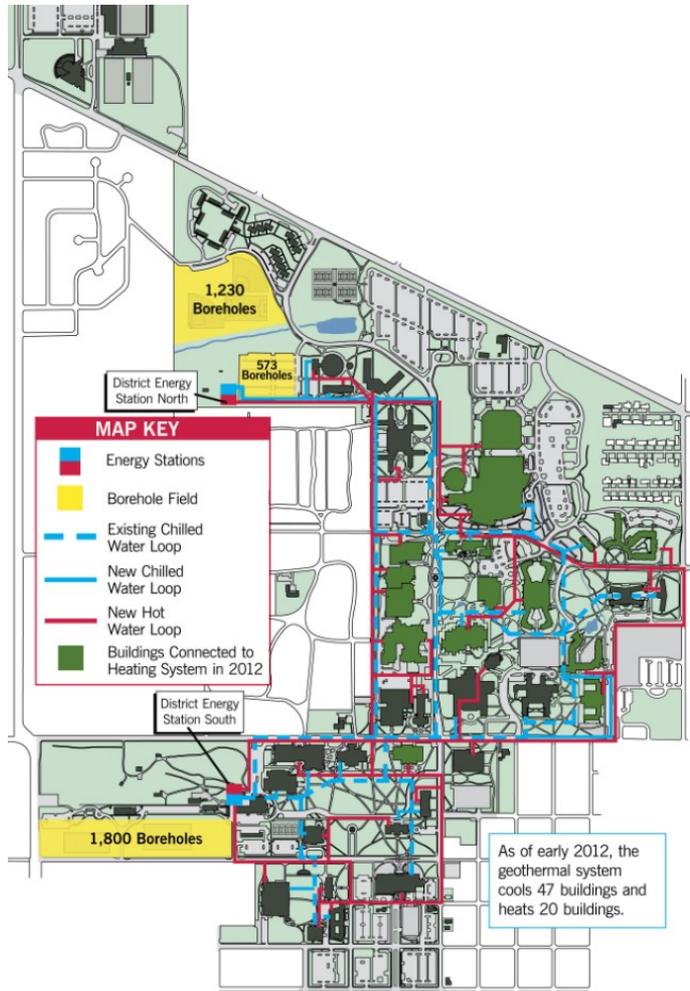


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The District-Scale Geothermal System



Geothermal Heating/Cooling

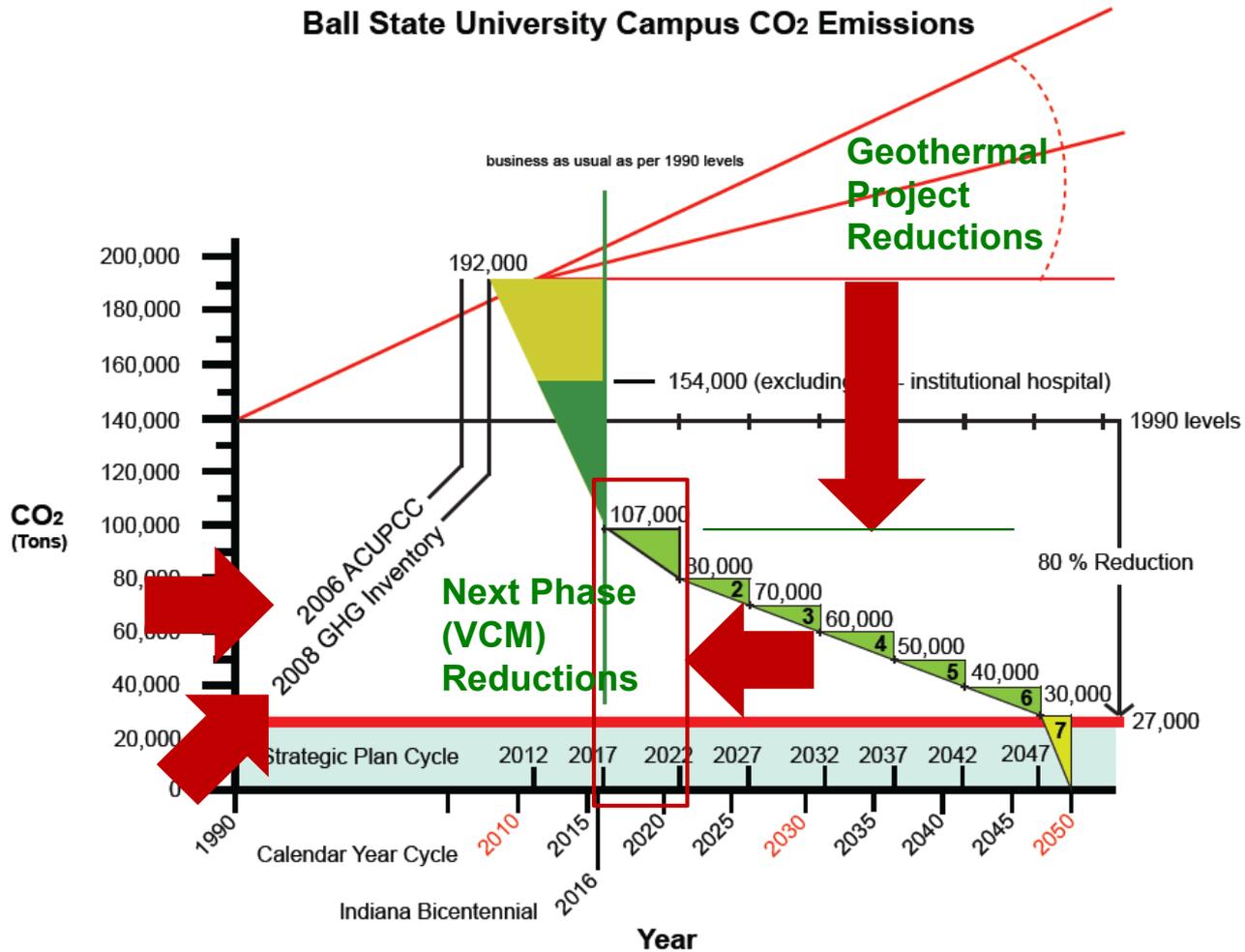


- 2 energy stations
- 3600 boreholes
- 47 buildings
- 5-7 year build out
- Total \$ ~83 mil
- \$2 mil Savings per Year
- ~ 8% ROI
 - [On Incremental \$25 mil Cost]

Climate Neutrality by 2050



Ball State University Campus CO₂ Emissions



BALL STATE UNIVERSITY EDUCATION REDEFINE

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/

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 Responsible Consumerism \(SRC\)](#).

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

[Council on the Environment](#)
[BSU Sustainability News](#)
[A Sustainability Statement](#)
[Academy for Sustainability](#)
[ACUPCC](#)
[Alliance for Resilient Campuses](#)
[Awards and Recognitions](#)
[Bracken Environmental Fund](#)
[BSU Commitment to the Environment](#)
[Building Better Communities](#)
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[CERES](#)
[Climate Action Plan](#)
[Council on the Environment \(COTE\)](#)
[Ecosa Institute Semester](#)
[Forestation](#)
[FSEEC](#)
[Geothermal Campus System](#)



Q&A



Contact Us

Melissa Klein

Communications Director

Center for Corporate Climate Leadership, U.S. EPA

(202) 343-9207

klein.melissa@epa.gov

For more information, visit www.epa.gov/climateleadership

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