

# 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

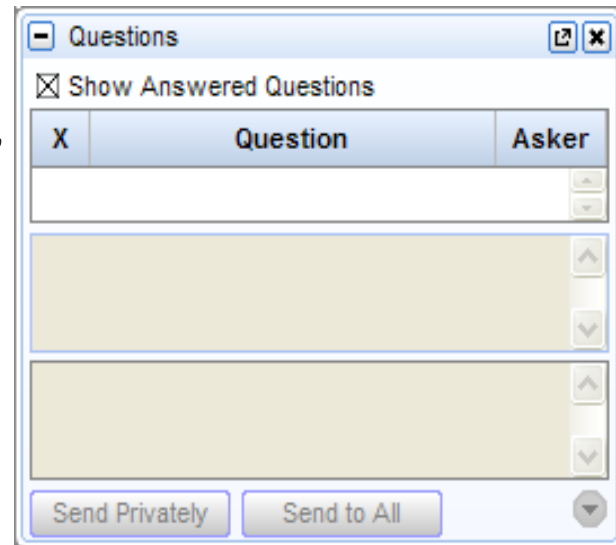


# Webinar Agenda

- 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



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# 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



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# 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.



The Climate Registry



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# 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**

- 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**







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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, IGCN, ISCN, STARS, USGBC

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## 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.

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# 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.

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# 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



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

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

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



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



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

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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.

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# 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
-

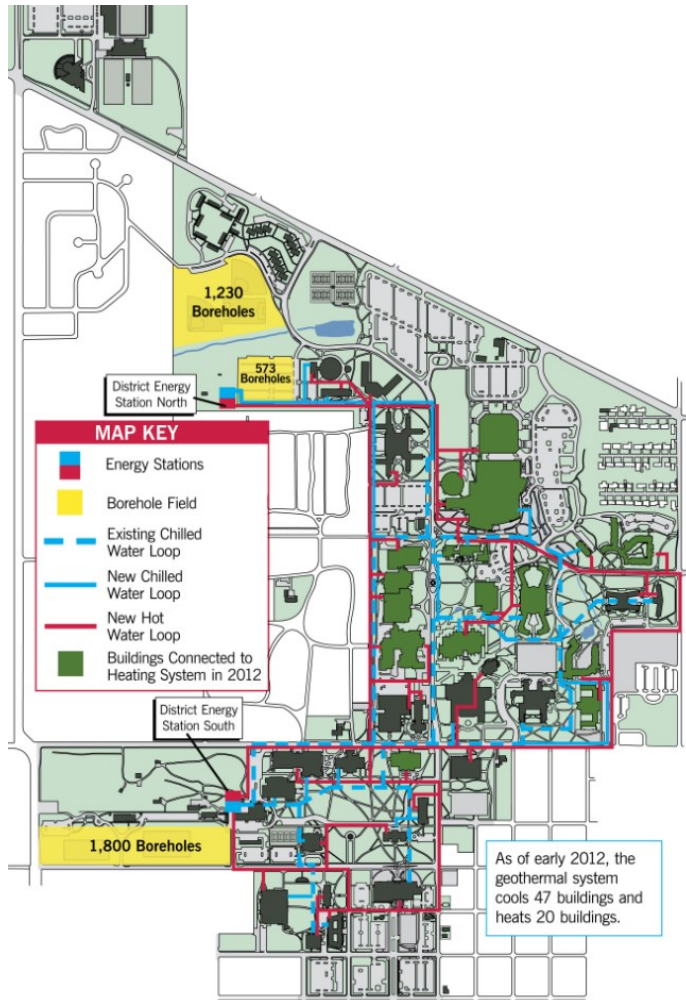


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# The District-Scale Geothermal System



# Geothermal Heating/Cooling

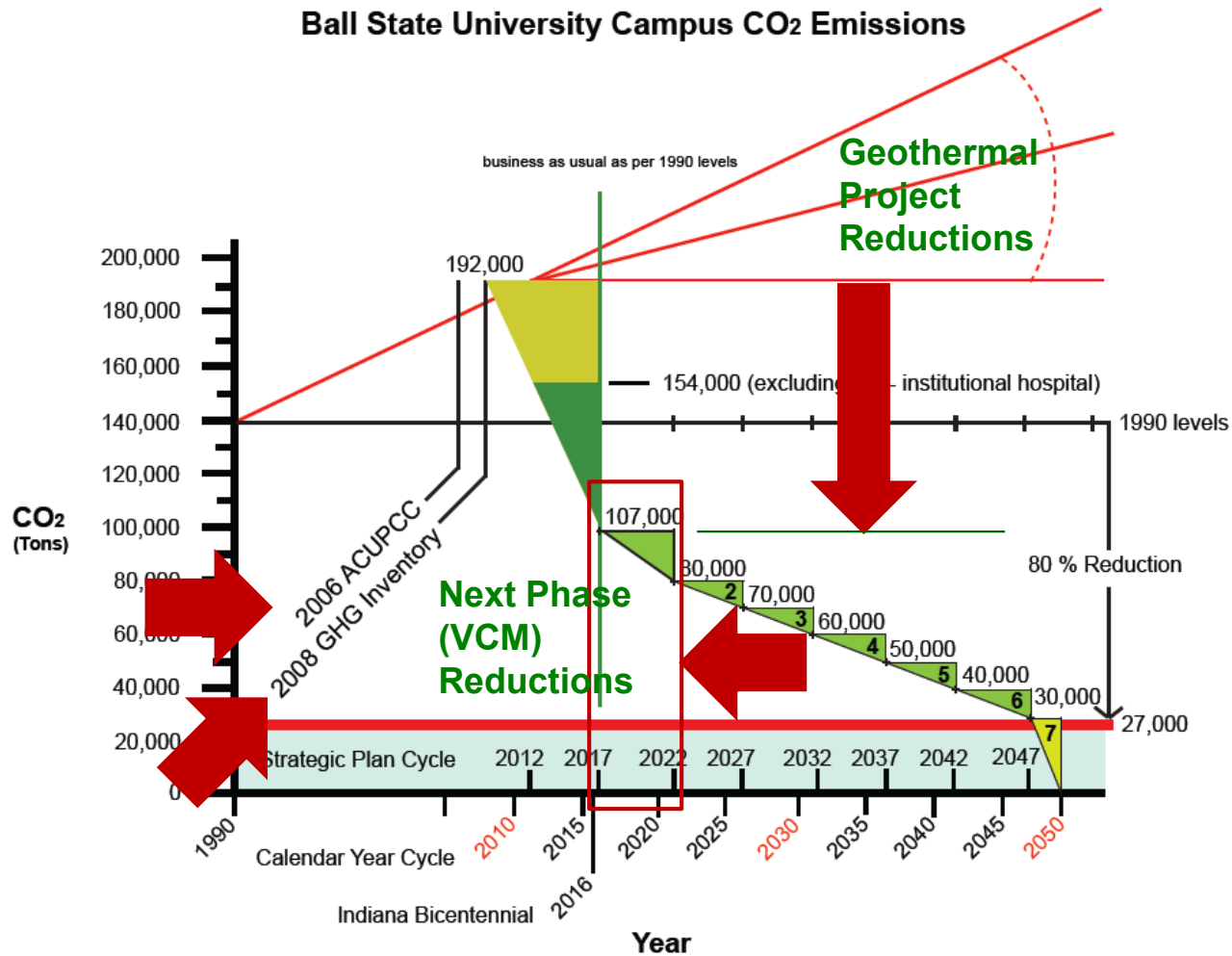


- 2 energy stations
- 3600 boreholes
- 47 buildings
- 5-7 year build out
- Total \$ ~83 mil
- \$2 mil Savings per Year
- ~ 8% ROI
  - [On Incremental \$25 mil Cost]

# Climate Neutrality by 2050



## Ball State University Campus CO<sub>2</sub> 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/](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 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

Carbon Reduction Initiative

CERES

Climate Action Plan

Council on the Environment (COTE)

Ecosa Institute Semester

Forestation

FSEEC

Geothermal Campus System



# Q&A





# Contact Us

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For more information, visit [www.epa.gov/climateleadership](http://www.epa.gov/climateleadership)

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