Community Discussion: Sustainability & Our Carbon Footprint
AGENDA

• Welcome
• Sustainability at Bryn Mawr- Overview
• Measuring our Carbon Footprint
• Determining a Path Forward
  • What is important to us?
  • What are our options?
• Next Steps
• We need you
SUSTAINABILITY AT BRYN MAWR

ASSHE has a very broad definition that spans three dimensions of sustainability including:

• Economic

• Social

• Environmental
SUSTAINABILITY AT BRYN MAWR

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SUSTAINABILITY AT BRYN MAWR

• 1982-2007 - Bryn Mawr implemented a number of early initiatives (Schwartz Gym construction, LED lighting conversions, innovative stormwater management projects)

• 2007 - Bryn Mawr signs the President’s Climate Leadership Commitment

• 2010 - Bryn Mawr publishes our Climate Action Plan

• 2014 - Bryn Mawr updates its 2010 Greenhouse gas inventory

• 2017 - Bryn Mawr awarded “STARS” Silver Certification by the Association for the Advancement of Sustainability in Higher Education (ASSHE)
President’s Climate Initiative Commitments:

• Complete a Greenhouse Gas Inventory (completed 2009, Updated 2014)
• Prepare a Climate Action Plan (Completed 2010)
• Establish Carbon Emissions reduction goals:
  • 10% by 2020
  • 20% by 2025
  • 30% by 2030 (Completed 2015)

Note: Baseline is 2008 emissions
SUSTAINABILITY AT BRYN MAWR

Accomplishments Towards Goal:

• Restrictions on growth
• Upgrading HVAC equipment to more efficient models
• Installation of Building Controls and programing occupancy set-back schedules
• Building Envelope Improvements
SUSTAINABILITY AT BRYN MAWR

Accomplishments Towards Goal:

• 3 EPA Energy Star Dorm Renovations
• 2 Building additions Designed to LEED Silver Standards
• Expanded LED lighting Conversion Program
• Dining services initiatives
• 100% Green Electricity
SUSTAINABILITY AT BRYN MAWR

Our Carbon Footprint

- 2008 Gross Emissions: 17,141 MTCDE
- 2014 Gross Emissions: 15,949 MTCDE
- 2014 Net Emissions: 10,619 MTCDE
- 2015 Net Emissions: 8,324 MTCDE
MEASURING OUR CARBON FOOTPRINT
MEASURING OUR CARBON FOOTPRINT

Scope 1 – Direct Emissions
• Fossil fuel
• Vehicle fleet

Scope 2 – Indirect Emissions from End-Use Utilities
• Electricity –

Scope 3 – Other Indirect Emissions
• Faculty and Staff Commuting
• Directly financed travel
• Solid waste
• Student Commuting*
• Study abroad travel*
• Paper*
• Electric Transmission Losses*

* Emissions measured in 2014 but not 2010
MEASURING OUR CARBON FOOTPRINT

Offsets – (Collected in FY2014 only)
- Composting
- REC Purchase- Wind Energy
MEASURING OUR CARBON FOOTPRINT

FY2008 Gross Emissions
17,141 MTCDE

FY2014 Gross Emissions
15,949 MTCDE

FY2014 Net Emissions
10,619 MTCDE

Projected FY2015 Net Emissions
8,324 MTCDE

FY15 Predictions assume no changes in gross emissions and 100% of REC purchases for electricity.
# DETERMINING A PATH FORWARD

## What is Important to Us?

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<thead>
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<td>Visibility</td>
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<td>Additionality</td>
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<td>Interventions that are on our own campus, in our own community or elsewhere in the country or even the world.</td>
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DETERMINING A PATH FORWARD

First Assignment:
Spend a few minutes in your group identifying any other criteria that may be important and then rank these and any additional criteria in rank order with #1 being the most important.
## Determining a Path Forward

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DETERMINING A PATH FORWARD

What are our options?

Conserve:

• Institutional Energy Saving Initiatives
  • More efficient HVAC equipment
  • Additional building envelope improvements

• Individual Actions – using less

• Collective Actions- sharing resources
DETERMINING A PATH FORWARD

What are our options?

Offset:
• Scope 2 Energy RECs (100% already)
• Available Projects – typically not local
  • Methane capture
  • Plant trees
  • Other
• Plant Trees – develop our own project(s)
DETERMINING A PATH FORWARD

What are our options?

Other on-site interventions:

• Targeted on-site solar project(s)
• Electric Cars
• Recycling/composting
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Second Assignment:
Thinking about the criteria which category of options would you put the most resources into given available resources.

As a group divide your 10 tickets into the three buckets to reflect priority actions:

• Conservation
• Off-sets
• Other on-site generation
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NEXT STEPS

Campus Conversation-1/31/2020 and 2/5/2020
• Priorities & Options

Community Day of Learning – 3/19/2020
• Sustainability Education Session
• SLG update

• Earth Week – 4/20/2020 - 4/25/2020
• Announce new Carbon Neutrality Commitment
WE NEED YOU

• E-mail thoughts and ideas to nbisbee@brynmawr.edu

• Go to https://www.brynmawr.edu/sustainability/get-involved/personal-actions-what-you-can-do to get ideas for sustainable actions.

• Addend Community Day of Learning Sessions

• Thank you for attending today