

# **ASU Sustainability- Best Management Practices**

*(We are still learning and have a long way to go)*

*“...be the change you want to see in the world...”  
Mahatma Gandhi*

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Global Institute of Sustainability  
Arizona State University*

# Sustainability Goals



## 1. Carbon Neutrality

- American College and University President's Climate Commitment (ACUPCC)
- Energy – Purchased, Site Generated, Natural Gas
- Transportation
- Solid Waste, Refrigerants, Fertilizers

# Sustainability Goals

## 2. Zero Waste

### – Solid waste

- Reduce
- Reuse
- Repurpose
- Recycle
- Front-end elimination

### – Water waste

- Low-water use appliances
- Water-capture
- Largely still to be defined



# Sustainability Goals



## 3. Active Engagement

- Using our campus as a living laboratory
- Engagement tools
- 80K Change Agents
  - There are 67,000 students plus faculty & staff who can change the world one by one. We link the ASU community around solutions to walk the talk.

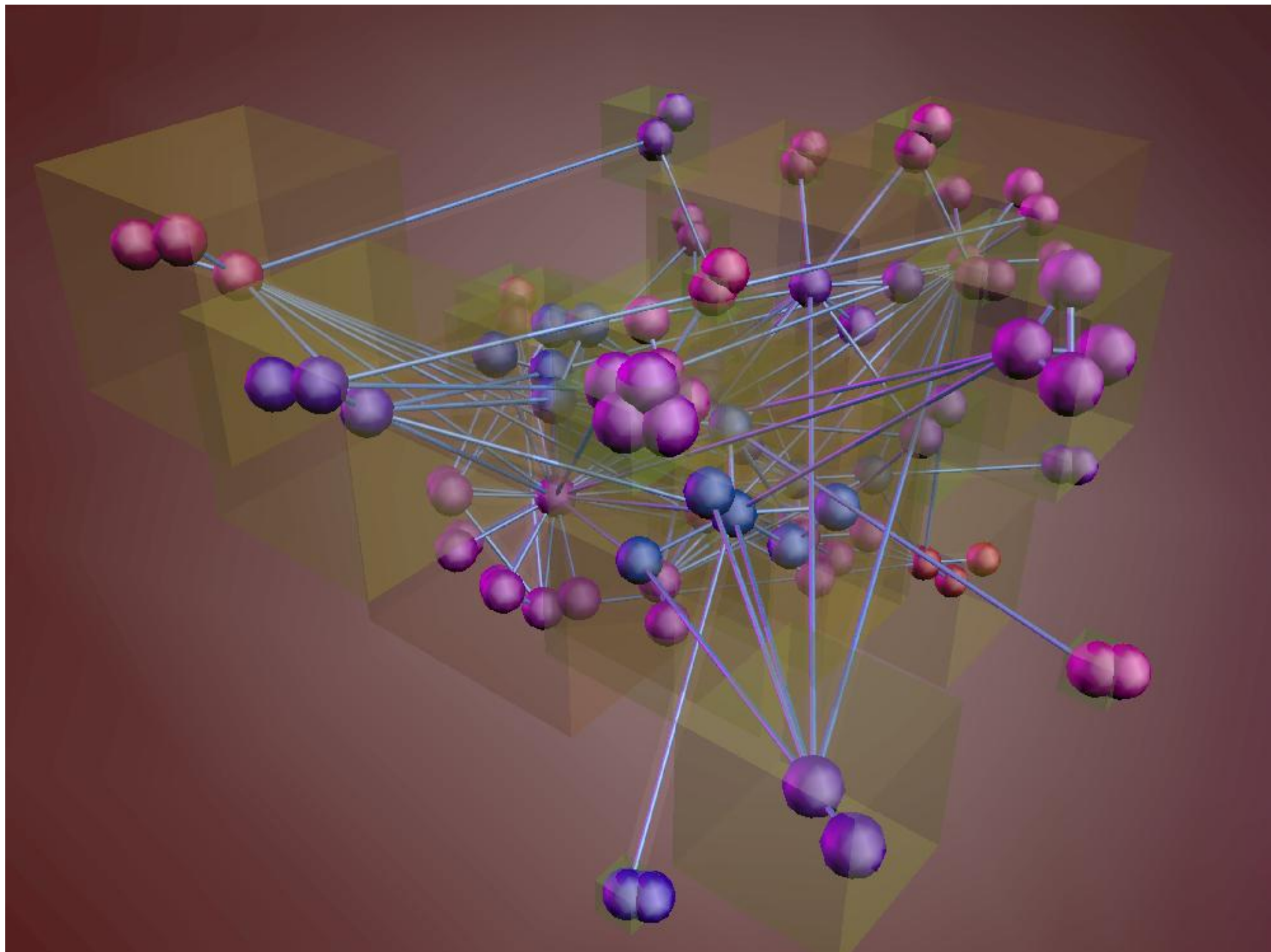


# Sustainability Goals



## 4. Principled Practice

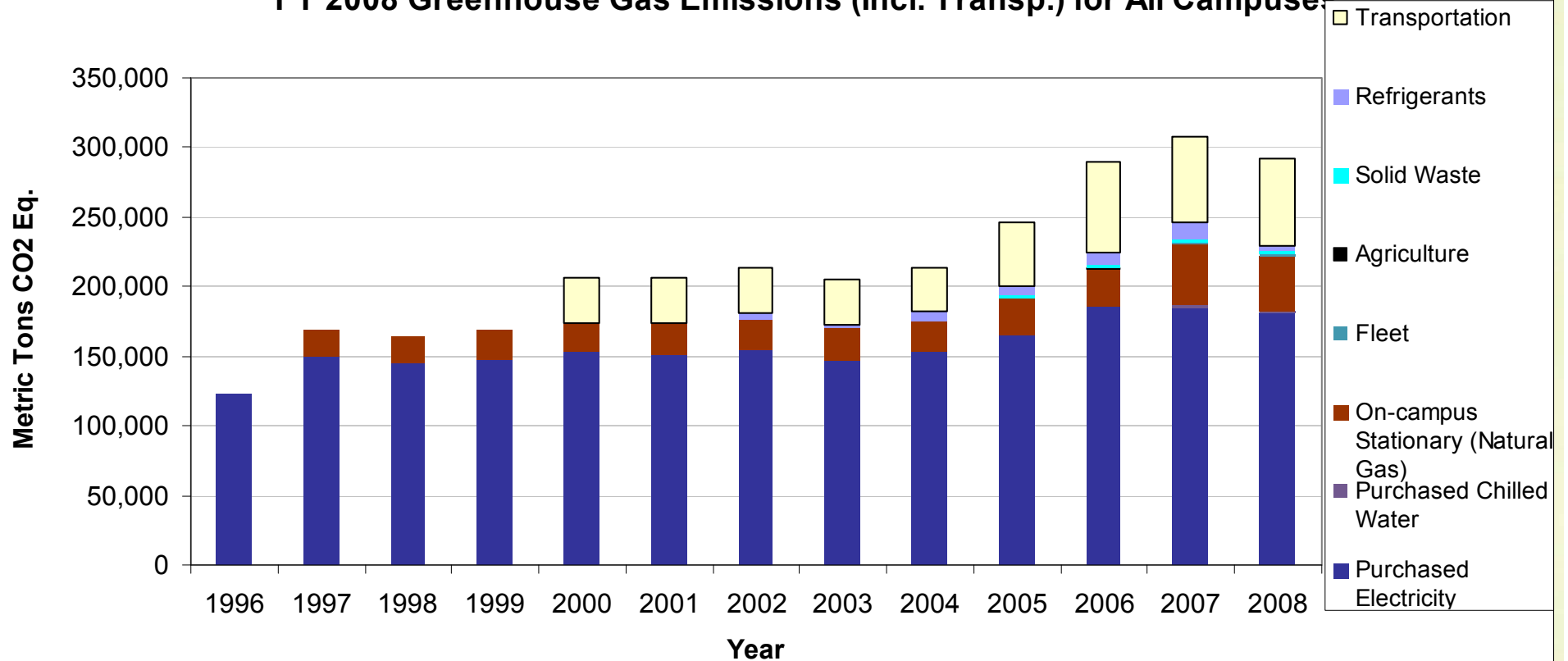
- Expressing our value system in operating our campus
- Procurement, Cleaning Practices, Food (for example)



# Examples of work

# Carbon Inventory

FY 2008 Greenhouse Gas Emissions (Incl. Transp.) for All Campuses





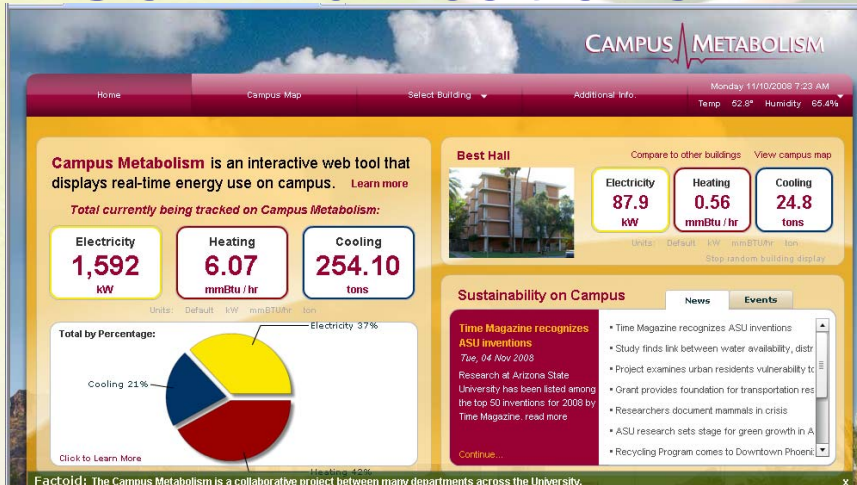
# Energy

- \$70M in Energy Efficiency – Performance Contract (Energy Conservation)
- 1.8MW of solar (2008), 8-12MW within 3 years – Power Purchase Agreement (Campus Solarization)



# Energy

- LED Parking structures
- Occupancy Sensors
- Energy monitoring – <http://cm.asu.edu>
- Communications



Parking Structure 2 – Before



Parking Structure 2 – After



Parking Structure 5 – Before



Parking Structure 5 – After



# Transportation

- Subsidized passes for students, faculty, & staff – resulting in 1.5M one-way trips last year.
- Free shuttles connecting the four campuses
- Car-sharing Program
- Transitioning to alternative fuel vehicles for campus fleet use
- Student run bicycle co-op



# Solid Waste

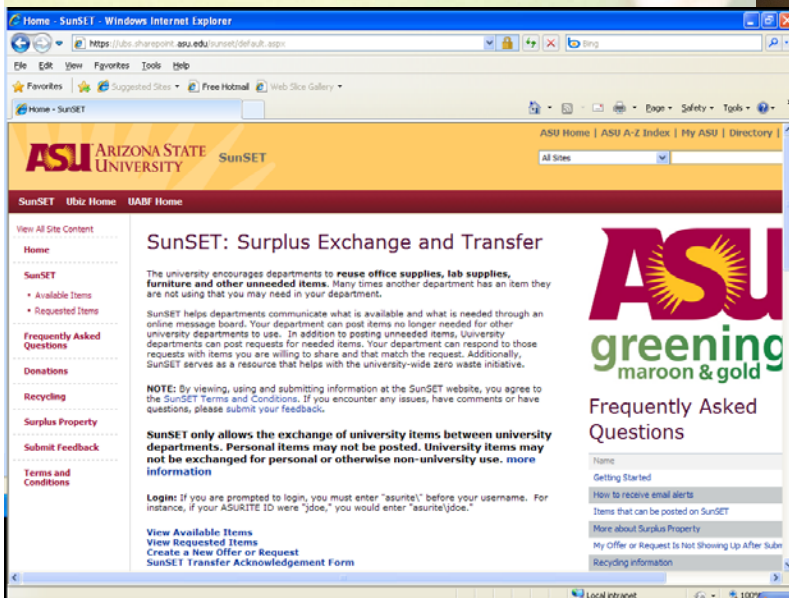
- Revamping recycling programs on all campuses – sharing the load (custodians, mail services, container sponsorship)
- Green Waste Composting – diverting an average of 12 tons of waste/month – compost used on campus.
- Compacters





# Solid Waste

- Salvage, reuse & diversion of durable goods through ASU Surplus Properties & department specific efforts such as ASU Paint Services.
- SunSET Project- facilitate interdepartmental transfers – <http://www.asu.edu/sunset>





# Active Engagement



## ENVIRONMENTAL SAVINGS

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TREES	WATER	ENERGY	SOLID WASTE	GREENHOUSE GASSES
8 FULLY GROWN	3,350 GALLONS	5.59 MILLION BTU	371 POUNDS	730 POUNDS



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# Active Engagement

- Outdoor recycling receptacle sponsorship program.
- Pocket Change – sustainability marketing piece distributed to all faculty, staff, & students.
- Campus Metabolism - building dashboard program created in-house (<http://cm.asu.edu>)
- Online tour of select “Sustainability Points of Pride” [www.asu.edu/tour/sustainability/](http://www.asu.edu/tour/sustainability/)
- Sustainability Toolbox – strategies & resources for integrating sustainability practice into ASU offices and events.



# Principled Practice

- Green Purchasing Guidelines
- Printing Practices
- Employee Reviews
- Partnerships



UNIVERSITY	Core Expectations for Staff		Rating 5 (high) - 1 (low)				
	See "Evaluation Rating Chart" prior to rating		5	4	3	2	1
	Service-oriented, Positive Attitude, Helpful						
	Trustworthy, Adheres to Ethics and Compliance						
	Collaborative, Team-oriented						
	Productive, Commitment to ASU						
	Flexible, Adaptable						
	Respectful Communicator						
	Resourceful, Committed to Sustainability						

**Resourceful,  
Committed to  
Sustainability**

- Actively seeks, acquires and promptly applies new knowledge and skills to support university goals
- Is aware of and supports the university's sustainability programs

