
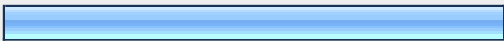



# EnergyWorkgroupSurvey1

1. Respondent Name (Optional)		Response Count
		18
	<i>answered question</i>	18
	<i>skipped question</i>	11

2. Department		Response Count
		29
	<i>answered question</i>	29
	<i>skipped question</i>	0

3. Are you a workgroup member?			Response Percent	Response Count
Unsure			31.0%	9
Yes			55.2%	16
No			13.8%	4
			If no, who invited you to participate?	6
			<i>answered question</i>	29
			<i>skipped question</i>	0

**4. Please rate each strategy on the likelihood that the proposed strategy will result in greenhouse gas EMISSIONS REDUCTIONS. PLEASE NOTE THIS QUESTION IS MANDATORY FOR ALL SURVEY PARTICIPANTS!**

	<b>Negligible Reductions</b>	<b>Moderate Reductions</b>	<b>Large Reductions</b>	<b>Very Large Reductions</b>	<b>Unsure</b>	<b>Response Count</b>
• Identify opportunities to further improve the efficiency of campus utility systems.	0.0% (0)	15.4% (4)	<b>42.3% (11)</b>	34.6% (9)	7.7% (2)	26
• Minimize energy use associated with campus equipment and appliances (excluding computers).	15.4% (4)	34.6% (9)	<b>38.5% (10)</b>	11.5% (3)	0.0% (0)	26
• Minimize energy use associated with campus computers and associated equipment (e.g. printers, scanners).	11.5% (3)	<b>50.0% (13)</b>	30.8% (8)	7.7% (2)	0.0% (0)	26
• Minimize waste and energy associated with handling, processing, distributing, and, ultimately, disposing of, supplies delivered to campus.	26.9% (7)	<b>38.5% (10)</b>	19.2% (5)	7.7% (2)	7.7% (2)	26
	<b><i>answered question</i></b>					<b>26</b>
	<b><i>skipped question</i></b>					<b>3</b>

5. -continued-

	Negligible Reductions	Moderate Reductions	Large Reductions	Very Large Reductions	Unsure	Response Count
• Maximize the efficiency of exterior campus lighting.	3.8% (1)	<b>50.0% (13)</b>	38.5% (10)	3.8% (1)	3.8% (1)	26
• Reduce energy use associated with campus laboratories.	7.7% (2)	<b>34.6% (9)</b>	<b>34.6% (9)</b>	15.4% (4)	7.7% (2)	26
• Increase the amount/proportion of renewable energy generated and used on campus.	11.5% (3)	<b>42.3% (11)</b>	34.6% (9)	11.5% (3)	0.0% (0)	26
• Increase campus awareness and educational opportunities related to energy conservation.	7.7% (2)	<b>53.8% (14)</b>	23.1% (6)	15.4% (4)	0.0% (0)	26
• Integrate sustainability principles and energy education/research into the student academic experience.	19.2% (5)	<b>53.8% (14)</b>	19.2% (5)	7.7% (2)	0.0% (0)	26
	<i>answered question</i>					<b>26</b>
	<i>skipped question</i>					<b>3</b>

6. -continued-						
	Negligible Reductions	Moderate Reductions	Large Reductions	Very Large Reductions	Unsure	Response Count
<ul style="list-style-type: none"> <li>Identify energy efficiency improvement opportunities associated with building construction, maintenance, and renovation.</li> </ul>	0.0% (0)	23.1% (6)	<b>42.3% (11)</b>	34.6% (9)	0.0% (0)	26
<ul style="list-style-type: none"> <li>Expand and better integrate current energy monitoring efforts.</li> </ul>	3.8% (1)	30.8% (8)	<b>34.6% (9)</b>	19.2% (5)	11.5% (3)	26
<ul style="list-style-type: none"> <li>Improve the efficiency of building energy use related to HVAC.</li> </ul>	0.0% (0)	7.7% (2)	<b>53.8% (14)</b>	23.1% (6)	15.4% (4)	26
<ul style="list-style-type: none"> <li>Improve the efficiency of building energy use related to lighting.</li> </ul>	0.0% (0)	<b>53.8% (14)</b>	30.8% (8)	15.4% (4)	0.0% (0)	26
<ul style="list-style-type: none"> <li>Make policy adjustments to maximize efficiency of campus energy use.</li> </ul>	11.5% (3)	38.5% (10)	<b>42.3% (11)</b>	3.8% (1)	3.8% (1)	26
	<i>answered question</i>					<b>26</b>
	<i>skipped question</i>					<b>3</b>

**7. PLEASE NOTE: If you have very little knowledge about this strategy and the action items below, please scroll to the bottom of the page and select "Next" to continue on to the next strategy. Strategy 1: Please rate each action item on the likelihood that the proposed strategy will result in greenhouse gas EMISSIONS REDUCTIONS.**

	Negligible Reductions	Moderate Reductions	Large Reductions	Unsure	Response Count
• Develop and initiate a boiler efficiency and emissions reductions program.	14.3% (3)	23.8% (5)	<b>61.9% (13)</b>	0.0% (0)	21
• Operate the power plant to maximize efficiency and reduce costs.	0.0% (0)	28.6% (6)	<b>71.4% (15)</b>	0.0% (0)	21
• Correct inefficiencies in the utility distribution systems.	0.0% (0)	23.8% (5)	<b>76.2% (16)</b>	0.0% (0)	21
• Centralize utility systems as much as possible.	9.5% (2)	28.6% (6)	<b>57.1% (12)</b>	4.8% (1)	21
• Integrate building projects to maximize utility system efficiency.	0.0% (0)	28.6% (6)	<b>71.4% (15)</b>	0.0% (0)	21
• Review emergency generator needs and consolidate generators.	<b>47.6% (10)</b>	33.3% (7)	14.3% (3)	4.8% (1)	21
	<i>answered question</i>				<b>21</b>
	<i>skipped question</i>				<b>8</b>

**8. -Strategy 1, continued -**

	<b>Negligible Reductions</b>	<b>Moderate Reductions</b>	<b>Large Reductions</b>	<b>Unsure</b>	<b>Response Count</b>
• Audit campus transformers to downsize or consolidate where possible.	28.6% (6)	<b>42.9% (9)</b>	4.8% (1)	23.8% (5)	21
• Complete the steam trap maintenance program in the Central Utility Plant and in the tunnels.	4.8% (1)	19.0% (4)	<b>57.1% (12)</b>	19.0% (4)	21
• Develop a maintenance program for steam pits not covered under the current steam trap maintenance project, along with zone and shop/DRL buildings.	0.0% (0)	23.8% (5)	<b>57.1% (12)</b>	19.0% (4)	21
• Reclaim hydraulic energy off of the wastewater plant discharge using hydroturbines.	<b>42.9% (9)</b>	38.1% (8)	4.8% (1)	14.3% (3)	21
• Capture gases associated with the wastewater treatment facility for reuse.	<b>47.6% (10)</b>	23.8% (5)	4.8% (1)	23.8% (5)	21
				Other (please specify)	2
				<b><i>answered question</i></b>	<b>21</b>
				<b><i>skipped question</i></b>	<b>8</b>

**9. PLEASE NOTE: If you have very little knowledge about this strategy and the action items below, please scroll to the bottom of the page and select "Next" to continue on to the next strategy. Strategy 2: Please rate each action item on the likelihood that the proposed strategy will result in greenhouse gas EMISSIONS REDUCTIONS.**

	Negligible Reductions	Moderate Reductions	Large Reductions	Unsure	Response Count
• Limit the number of each appliance type per residence hall room (e.g. refrigerators, microwaves) and require ENERGY STAR certified appliances if available.	9.1% (2)	<b>68.2% (15)</b>	18.2% (4)	4.5% (1)	22
• Require the use of only CFL or higher efficiency light bulbs in residence hall rooms.	4.5% (1)	<b>59.1% (13)</b>	27.3% (6)	9.1% (2)	22
• Develop a campus rental system/store for residence hall appliances and light bulbs. Require that students rent/purchase specific appliances from this system or demonstrate proof that their personal appliance is of equal or superior efficiency	27.3% (6)	<b>36.4% (8)</b>	22.7% (5)	13.6% (3)	22
• Develop a reduction strategy for phantom loads in office and residential spaces.	13.6% (3)	<b>63.6% (14)</b>	4.5% (1)	18.2% (4)	22
• Enforce and educate the school population regarding the space heater guideline.	31.8% (7)	<b>40.9% (9)</b>	18.2% (4)	9.1% (2)	22
• Eliminate use of window AC units wherever possible. If units are deemed necessary, require ENERGY STAR or better and cover during winter.	4.5% (1)	18.2% (4)	<b>72.7% (16)</b>	4.5% (1)	22
	<i>answered question</i>				<b>22</b>
	<i>skipped question</i>				<b>7</b>

**10. -Strategy 2, continued-**

	<b>Negligible Reductions</b>	<b>Moderate Reductions</b>	<b>Large Reductions</b>	<b>Unsure</b>	<b>Response Count</b>
<ul style="list-style-type: none"> <li>• Replace inefficient and/or older models of on-campus refrigerators, freezers and dishwashers.</li> </ul>	13.6% (3)	<b>72.7% (16)</b>	9.1% (2)	4.5% (1)	22
<ul style="list-style-type: none"> <li>• Install vending machine misers on all equipment (e.g. soda and snack machines, food displays).</li> </ul>	18.2% (4)	<b>63.6% (14)</b>	4.5% (1)	13.6% (3)	22
<ul style="list-style-type: none"> <li>• Replace any open display refrigerators or freezers with closed door units.</li> </ul>	31.8% (7)	<b>45.5% (10)</b>	9.1% (2)	13.6% (3)	22
<ul style="list-style-type: none"> <li>• Consolidate campus food vendor equipment to reduce overall machine numbers. Work with vendors to ensure the most efficient units possible are being utilized.</li> </ul>	31.8% (7)	<b>54.5% (12)</b>	9.1% (2)	4.5% (1)	22
<ul style="list-style-type: none"> <li>• Install individual meters for on-campus vendors. Bill for excessive energy use (use over a predetermined acceptable use) and reward those who reduce their overall energy use.</li> </ul>	31.8% (7)	<b>54.5% (12)</b>	9.1% (2)	4.5% (1)	22
	<b><i>answered question</i></b>				<b>22</b>
	<b><i>skipped question</i></b>				<b>7</b>

<b>11. -Strategy 2, continued-</b>					
	<b>Negligible Reductions</b>	<b>Moderate Reductions</b>	<b>Large Reductions</b>	<b>Unsure</b>	<b>Response Count</b>
• Evaluate applications for variable-frequency drives (VFDs), which control the rotational speed of an alternating current electric motor by controlling the frequency of the electrical power supplied to the motor.	9.1% (2)	<b>50.0% (11)</b>	36.4% (8)	4.5% (1)	22
• Recover waste heat from refrigeration, laundry dryers, and other heat producing mechanical devices; consider heat recovery ventilation.	<b>52.4% (11)</b>	38.1% (8)	4.8% (1)	4.8% (1)	21
				Other (please specify)	1
				<b>answered question</b>	<b>22</b>
				<b>skipped question</b>	<b>7</b>

<b>12. PLEASE NOTE: If you have very little knowledge about this strategy and the action items below, please scroll to the bottom of the page and select "Next" to continue on to the next strategy. Strategy 3: Please rate each action item on the likelihood that the proposed strategy will result in greenhouse gas EMISSIONS REDUCTIONS.</b>					
	<b>Negligible Reductions</b>	<b>Moderate Reductions</b>	<b>Large Reductions</b>	<b>Unsure</b>	<b>Response Count</b>
• Implement employee training regarding equipment use protocol and energy efficient purchasing standards.	36.4% (8)	<b>50.0% (11)</b>	4.5% (1)	9.1% (2)	22
• Require all campus computer lab managers and supervisors attend energy conservation training.	<b>54.5% (12)</b>	40.9% (9)	0.0% (0)	4.5% (1)	22
• Install sleep software on all computer lab equipment.	22.7% (5)	<b>63.6% (14)</b>	4.5% (1)	9.1% (2)	22
• Require that campus computer lab equipment is shut down when not in use. Initiate a 'spot check' program to ensure compliance.	22.7% (5)	<b>68.2% (15)</b>	4.5% (1)	4.5% (1)	22
• Limit computer lab hours of operation.	<b>59.1% (13)</b>	31.8% (7)	0.0% (0)	9.1% (2)	22
				Other (please specify)	0

	<i>answered question</i>	<b>22</b>
	<i>skipped question</i>	<b>7</b>

**13. PLEASE NOTE: If you have very little knowledge about this strategy and the action items below, please scroll to the bottom of the page and select "Next" to continue on to the next strategy. Strategy 4: Please rate each action item on the likelihood that the proposed strategy will result in greenhouse gas EMISSIONS REDUCTIONS.**

	<b>Negligible Reductions</b>	<b>Moderate Reductions</b>	<b>Large Reductions</b>	<b>Unsure</b>	<b>Response Count</b>
<ul style="list-style-type: none"> <li>Establish a campus "green purchasing policy" - e.g. give preference to products and vendors that are energy efficient, minimize waste generation and associated packaging, have demonstrated durability, and incorporate local, recycled, or rapidly renewable resources.</li> </ul>	28.6% (6)	<b>57.1% (12)</b>	9.5% (2)	4.8% (1)	21
<ul style="list-style-type: none"> <li>Require contractors to submit environmental sustainability profiles for their company.</li> </ul>	<b>66.7% (14)</b>	28.6% (6)	0.0% (0)	4.8% (1)	21
<ul style="list-style-type: none"> <li>Set a goal of zero-waste for campus dining operations.</li> </ul>	<b>40.0% (8)</b>	30.0% (6)	10.0% (2)	20.0% (4)	20
<ul style="list-style-type: none"> <li>Maximize food waste recycling - e.g. composting, dehydrating for landscaping applications, biodiesel generation.</li> </ul>	23.8% (5)	<b>52.4% (11)</b>	19.0% (4)	4.8% (1)	21
<ul style="list-style-type: none"> <li>Restrict the use of disposal and single-use products in campus food operations.</li> </ul>	35.0% (7)	<b>50.0% (10)</b>	5.0% (1)	10.0% (2)	20
<ul style="list-style-type: none"> <li>Require vendors to provide items in recyclable, reusable, or compostable packaging.</li> </ul>	35.0% (7)	<b>50.0% (10)</b>	10.0% (2)	5.0% (1)	20
<ul style="list-style-type: none"> <li>Maximize the use of local vendors.</li> </ul>	20.0% (4)	<b>50.0% (10)</b>	20.0% (4)	10.0% (2)	20
				Other (please specify)	0
				<i>answered question</i>	<b>21</b>
				<i>skipped question</i>	<b>8</b>

**14. PLEASE NOTE: If you have very little knowledge about this strategy and the action items below, please scroll to the bottom of the page and select "Next" to continue on to the next strategy. Strategy 5: Please rate each action item on the likelihood that the proposed strategy will result in greenhouse gas EMISSIONS REDUCTIONS.**

	Negligible Reductions	Moderate Reductions	Large Reductions	Unsure	Response Count
<ul style="list-style-type: none"> <li>• Install motion sensors with dimming technologies to maximize safety while minimizing energy use associated with lighting campus pathways (e.g. Celeron path).</li> </ul>	<b>33.3% (7)</b>	28.6% (6)	<b>33.3% (7)</b>	4.8% (1)	21
<ul style="list-style-type: none"> <li>• Utilize solar lighting for small uplighting projects, wherever possible.</li> </ul>	19.0% (4)	<b>61.9% (13)</b>	14.3% (3)	4.8% (1)	21
<ul style="list-style-type: none"> <li>• Use solar energy to power exterior lighting along roadways, sidewalks, parking lots, and paths (e.g. not building associated).</li> </ul>	23.8% (5)	<b>47.6% (10)</b>	23.8% (5)	4.8% (1)	21
<ul style="list-style-type: none"> <li>• Require 'full cutoff' lights for all exterior lighting to ensure maximum lighting efficiency.</li> </ul>	23.8% (5)	19.0% (4)	14.3% (3)	<b>42.9% (9)</b>	21
<ul style="list-style-type: none"> <li>• Improve efficiency of campus traffic lights by switching to LED lights and linking to solar panels.</li> </ul>	<b>38.1% (8)</b>	33.3% (7)	14.3% (3)	14.3% (3)	21
<ul style="list-style-type: none"> <li>• Improve parking garage lighting efficiency (e.g. install LED sources and occupancy-based dimming controls).</li> </ul>	23.8% (5)	<b>52.4% (11)</b>	14.3% (3)	9.5% (2)	21
				Other (please specify)	0
				<b>answered question</b>	<b>21</b>
				<b>skipped question</b>	<b>8</b>

**15. PLEASE NOTE: If you have very little knowledge about this strategy and the action items below, please scroll to the bottom of the page and select "Next" to continue on to the next strategy. Strategy 6: Please rate each action item on the likelihood that the proposed strategy will result in greenhouse gas EMISSIONS REDUCTIONS.**

	Negligible Reductions	Moderate Reductions	Large Reductions	Unsure	Response Count
<ul style="list-style-type: none"> <li>Require energy-efficiency in laboratory design criteria when designing and/or renovating buildings (e.g. EPA's Lab 21 Environmental Performance Criteria).</li> </ul>	0.0% (0)	<b>40.0% (8)</b>	<b>40.0% (8)</b>	20.0% (4)	20
<ul style="list-style-type: none"> <li>Implement lab water recirculation and/or closed loop cooling.</li> </ul>	15.0% (3)	<b>40.0% (8)</b>	30.0% (6)	15.0% (3)	20
<ul style="list-style-type: none"> <li>Replace constant volume hoods on campus with the most efficient available hood type (e.g. variable air volume hood) for the intended purpose.</li> </ul>	0.0% (0)	25.0% (5)	<b>60.0% (12)</b>	15.0% (3)	20
<ul style="list-style-type: none"> <li>Evaluate departmental fume hood need and use; temporarily turn off fume hoods that are not currently in use.</li> </ul>	10.0% (2)	<b>45.0% (9)</b>	35.0% (7)	10.0% (2)	20
<ul style="list-style-type: none"> <li>Maximize efficiency of laboratory airflow. Install Usage Based Controls (UBC) (which modulate hood flows based on the presence or absence of a fume hood operator), Phoenix controls, or a comparable option, on all campus fume hoods.</li> </ul>	5.0% (1)	30.0% (6)	<b>50.0% (10)</b>	15.0% (3)	20
<ul style="list-style-type: none"> <li>Develop and implement fume hood 'responsible use' policy that includes mandatory training and revocation of use rights if hoods are left open (e.g. CT Global Fuel Cell Center).</li> </ul>	10.0% (2)	25.0% (5)	<b>40.0% (8)</b>	25.0% (5)	20
				Other (please specify)	0
				<b>answered question</b>	<b>20</b>
				<b>skipped question</b>	<b>9</b>

**16. PLEASE NOTE: If you have very little knowledge about this strategy and the action items below, please scroll to the bottom of the page and select "Next" to continue on to the next strategy. Strategy 7: Please rate each action item on the likelihood that the proposed strategy will result in greenhouse gas EMISSIONS REDUCTIONS.**

	Negligible Reductions	Moderate Reductions	Large Reductions	Unsure	Response Count
<ul style="list-style-type: none"> <li>• Commit to renewable energy goals for campus energy supply (e.g. 20% by 2015).</li> </ul>	23.8% (5)	<b>57.1% (12)</b>	19.0% (4)	0.0% (0)	21
<ul style="list-style-type: none"> <li>• Install solar water heaters with new constructions and retrofit existing buildings where possible. Solar water heaters can reduce conventional water heating needs by ~ 66%.</li> </ul>	4.8% (1)	<b>52.4% (11)</b>	42.9% (9)	0.0% (0)	21
<ul style="list-style-type: none"> <li>• Install geothermal heating systems with all new construction projects, and, where appropriate, renovations, if the lifetime energy savings exceeds the cost of installation. Geothermal heat pumps can reduce electricity consumption by 25-50%.</li> </ul>	19.0% (4)	<b>42.9% (9)</b>	33.3% (7)	4.8% (1)	21
	<i>answered question</i>				<b>21</b>
	<i>skipped question</i>				<b>8</b>

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	Negligible Reductions	Moderate Reductions	Large Reductions	Unsure	Response Count
<ul style="list-style-type: none"> <li>• Develop a renewable energy master plan for the main and depot campuses. Identify target locations for renewable energy expansion/use, including high visibility pilot projects</li> </ul>	19.0% (4)	<b>38.1% (8)</b>	<b>38.1% (8)</b>	4.8% (1)	21
<ul style="list-style-type: none"> <li>• Implement wind demonstration projects; consider private and public partnerships to help defray costs.</li> </ul>	<b>38.1% (8)</b>	33.3% (7)	23.8% (5)	4.8% (1)	21
<ul style="list-style-type: none"> <li>• Expand on-campus biodiesel production and use. Identify additional partners.</li> </ul>	33.3% (7)	<b>52.4% (11)</b>	9.5% (2)	4.8% (1)	21
<ul style="list-style-type: none"> <li>• Install geothermal demonstration projects; require geothermal feasibility evaluation in all new construction projects.</li> </ul>	33.3% (7)	<b>42.9% (9)</b>	19.0% (4)	4.8% (1)	21
	<b><i>answered question</i></b>				<b>21</b>
	<b><i>skipped question</i></b>				<b>8</b>

18. .					
	Negligible Reductions	Moderate Reductions	Large Reductions	Unsure	Response Count
• Incorporate solar PVs and solar thermal into building designs. Retrofit buildings wherever possible.	20.0% (4)	<b>40.0% (8)</b>	30.0% (6)	10.0% (2)	20
• Identify a fuel cell industry partner to develop a fuel cell demonstration project on either the main or depot campus.	<b>52.4% (11)</b>	19.0% (4)	23.8% (5)	4.8% (1)	21
• Develop a campus nuclear reactor. Replace the cogeneration facility when its lifetime is exceeded with nuclear power.	30.0% (6)	10.0% (2)	<b>40.0% (8)</b>	20.0% (4)	20
• Capture landfill gases for reuse.	<b>61.9% (13)</b>	19.0% (4)	4.8% (1)	14.3% (3)	21
• Identify energy storage opportunities, such as hydroelectric applications or ice bank storage.	<b>47.6% (10)</b>	38.1% (8)	4.8% (1)	9.5% (2)	21
				Other (please specify)	3
				<b><i>answered question</i></b>	<b>21</b>
				<b><i>skipped question</i></b>	<b>8</b>

**19. PLEASE NOTE: If you have very little knowledge about these strategies and the action items below, please scroll to the bottom of the page and select "Next" to continue on to the next strategy. Strategy 8: Please rate each action item on the likelihood that the proposed strategy will result in greenhouse gas EMISSIONS REDUCTIONS.**

	<b>Negligible Reductions</b>	<b>Moderate Reductions</b>	<b>Large Reductions</b>	<b>Unsure</b>	<b>Response Count</b>
• Implement an energy conservation education campaign for students, faculty and staff.	19.0% (4)	<b>61.9% (13)</b>	19.0% (4)	0.0% (0)	21
• Place electronic displays of building energy usage in highly trafficked campus buildings and in all residence halls. Integrate with energy conservation outreach efforts.	28.6% (6)	<b>57.1% (12)</b>	14.3% (3)	0.0% (0)	21
• Provide incentives/recognize individuals who report energy and/or water conservation related problems.	38.1% (8)	<b>47.6% (10)</b>	14.3% (3)	0.0% (0)	21
• Develop a department/building monitor program to identify opportunities to increase energy efficiency and conservation.	28.6% (6)	<b>52.4% (11)</b>	19.0% (4)	0.0% (0)	21
	<b><i>answered question</i></b>				<b>21</b>
	<b><i>skipped question</i></b>				<b>8</b>

20. .					
	Negligible Reductions	Moderate Reductions	Large Reductions	Unsure	Response Count
<ul style="list-style-type: none"> <li>• Develop a student eco-rep program to monitor and report energy and water use issues in residence halls.</li> </ul>	<b>42.9% (9)</b>	38.1% (8)	19.0% (4)	0.0% (0)	21
<ul style="list-style-type: none"> <li>• Implement housing based educational/demonstration opportunities for alternative energy (e.g. EcoHouse.</li> </ul>	<b>52.4% (11)</b>	42.9% (9)	4.8% (1)	0.0% (0)	21
<ul style="list-style-type: none"> <li>• Conduct more routine energy conservation challenges within the residence halls. Provide campus environmental groups monetary incentives for participation if they can demonstrate that their assistance contributed to energy reductions.).</li> </ul>	23.8% (5)	<b>47.6% (10)</b>	23.8% (5)	4.8% (1)	21
<ul style="list-style-type: none"> <li>• Increase the number of in-residence hall education opportunities and projects. Expand the number and type of sustainability and energy conservation training options available to hall directors and community assistants.</li> </ul>	25.0% (5)	<b>60.0% (12)</b>	10.0% (2)	5.0% (1)	20
	<i>answered question</i>				<b>21</b>
	<i>skipped question</i>				<b>8</b>

**21. Strategy 9: Integrate sustainability principles and energy education/research into the student academic experience.**

	<b>Negligible Reductions</b>	<b>Moderate Reductions</b>	<b>Large Reductions</b>	<b>Unsure</b>	<b>Response Count</b>
<ul style="list-style-type: none"> <li>• Collaborate with First Year Programs to expand the number of 1-credit sustainability and energy conservation based courses available to students.</li> </ul>	<b>57.1% (12)</b>	38.1% (8)	0.0% (0)	4.8% (1)	21
<ul style="list-style-type: none"> <li>• Encourage and provide support (e.g. monetary, advisor) to senior design projects or Honors theses that increase campus energy efficiency and/or conservation.</li> </ul>	<b>57.1% (12)</b>	38.1% (8)	4.8% (1)	0.0% (0)	21
<ul style="list-style-type: none"> <li>• Develop a green job training program and integrate with renewable energy and energy efficiency efforts.</li> </ul>	<b>57.1% (12)</b>	33.3% (7)	4.8% (1)	4.8% (1)	21
<ul style="list-style-type: none"> <li>• Provide incentives for faculty to incorporate energy efficiency/conservation exercises into their courses.</li> </ul>	38.1% (8)	<b>52.4% (11)</b>	4.8% (1)	4.8% (1)	21
Other (please specify)					0
<b><i>answered question</i></b>					<b>21</b>
<b><i>skipped question</i></b>					<b>8</b>

**22. PLEASE NOTE: If you have very little knowledge about this strategy and the action items below, please scroll to the bottom of the page and select "Next" to continue on to the next strategy. Strategy 10: Please rate each action item on the likelihood that the proposed strategy will result in greenhouse gas EMISSIONS REDUCTIONS.**

	Negligible Reductions	Moderate Reductions	Large Reductions	Unsure	Response Count
<ul style="list-style-type: none"> <li>Maintain and upgrade building envelopes (e.g. windows, insulation) to minimize energy consumption-focus on water and wind infiltration prevention.</li> </ul>	0.0% (0)	31.6% (6)	<b>68.4% (13)</b>	0.0% (0)	19
<ul style="list-style-type: none"> <li>Engage DAS contractors to perform lighting and HVAC audits where we can use the clean energy efficiency fund (CEEF) to finance projects.</li> </ul>	15.8% (3)	36.8% (7)	<b>47.4% (9)</b>	0.0% (0)	19
<ul style="list-style-type: none"> <li>Integrate energy efficiency with the building design and construction process; make energy and water conservation related points a priority in the LEED certification process.</li> </ul>	5.3% (1)	26.3% (5)	<b>68.4% (13)</b>	0.0% (0)	19
<ul style="list-style-type: none"> <li>Establish a building HVAC re-commissioning program.</li> </ul>	0.0% (0)	31.6% (6)	<b>57.9% (11)</b>	10.5% (2)	19
				Other (please specify)	0
				<b><i>answered question</i></b>	<b>19</b>
				<b><i>skipped question</i></b>	<b>10</b>

**23. PLEASE NOTE: If you have very little knowledge about this strategy and the action items below, please scroll to the bottom of the page and select "Next" to continue on to the next strategy. Strategy 11: Please rate each action item on the likelihood that the proposed strategy will result in greenhouse gas EMISSIONS REDUCTIONS.**

	Negligible Reductions	Moderate Reductions	Large Reductions	Unsure	Response Count
• Complete the installation of submeters on all unmetered buildings and verify proper functioning.	10.0% (2)	40.0% (8)	<b>45.0% (9)</b>	5.0% (1)	20
• Expand the current Energy Management System (Andover) to incorporate and monitor buildings and areas that are not currently monitored.	5.0% (1)	35.0% (7)	<b>50.0% (10)</b>	10.0% (2)	20
• Perform energy audits on all buildings, prioritizing audits by current building energy usage or other economic means.	5.0% (1)	40.0% (8)	<b>50.0% (10)</b>	5.0% (1)	20
• Identify high incidents of energy related problems (e.g. through work order review) and use that information to prioritize corrective actions.	10.0% (2)	<b>50.0% (10)</b>	30.0% (6)	10.0% (2)	20
• Identify campus 'energy hogs' and target for retrofitting to reduce energy usage.	0.0% (0)	<b>50.0% (10)</b>	<b>50.0% (10)</b>	0.0% (0)	20
• Develop a University protocol for monitoring, tracking and trending meter data, including integration with outreach efforts.	20.0% (4)	<b>50.0% (10)</b>	25.0% (5)	5.0% (1)	20
• Work with building managers to reduce occupied versus unoccupied hours, temperatures and standardizing temperatures, and air change rates. Conduct a complete energy audit for all campus buildings to identify unanticipated sources of high energy use.	10.0% (2)	<b>55.0% (11)</b>	35.0% (7)	0.0% (0)	20
				Other (please specify)	1
				<b>answered question</b>	<b>20</b>
				<b>skipped question</b>	<b>9</b>

**24. PLEASE NOTE: If you have very little knowledge about this strategy and the action items below, please scroll to the bottom of the page and select "Next" to continue on to the next strategy. Strategy 12: Please rate each action item on the likelihood that the proposed strategy will result in greenhouse gas EMISSIONS REDUCTIONS.**

	Negligible Reductions	Moderate Reductions	Large Reductions	Unsure	Response Count
<ul style="list-style-type: none"> <li>• Switch to heat zoning, to address certain areas of buildings based on occupancy, equipment, or function, that require deviation from established set points.</li> </ul>	5.3% (1)	<b>47.4% (9)</b>	42.1% (8)	5.3% (1)	19
<ul style="list-style-type: none"> <li>• Require the use high-efficiency filters for all HVAC systems to reduce drag.</li> </ul>	15.8% (3)	<b>42.1% (8)</b>	26.3% (5)	15.8% (3)	19
<ul style="list-style-type: none"> <li>• Survey and install additional occupancy sensors for HVAC control.</li> </ul>	11.1% (2)	<b>44.4% (8)</b>	38.9% (7)	5.6% (1)	18
				Other (please specify)	1
				<b><i>answered question</i></b>	<b>19</b>
				<b><i>skipped question</i></b>	<b>10</b>

**25. PLEASE NOTE: If you have very little knowledge about this strategy and the action items below, please scroll to the bottom of the page and select "Next" to continue on to the next strategy. Strategy 13: Please rate each action item on the likelihood that the proposed strategy will result in greenhouse gas EMISSIONS REDUCTIONS.**

	Negligible Reductions	Moderate Reductions	Large Reductions	Unsure	Response Count
<ul style="list-style-type: none"> <li>• Install occupancy sensors and dimmers to control lighting in areas with variable occupancy frequencies (e.g. laboratories, common areas, bathrooms, hallways).</li> </ul>	10.5% (2)	<b>47.4% (9)</b>	42.1% (8)	0.0% (0)	19
<ul style="list-style-type: none"> <li>• Install photosensors on lights in areas suitable for daylighting.</li> </ul>	5.3% (1)	<b>73.7% (14)</b>	21.1% (4)	0.0% (0)	19
<ul style="list-style-type: none"> <li>• Develop and implement a building re-lamping program to replace older florescent bulbs with the most efficient energy efficient types available.</li> </ul>	5.3% (1)	<b>57.9% (11)</b>	36.8% (7)	0.0% (0)	19
<ul style="list-style-type: none"> <li>• Replace all existing non-LED building exit signs to LED signs; require all new constructions to use the most energy efficient exit signs available (LED or other).</li> </ul>	31.6% (6)	<b>47.4% (9)</b>	15.8% (3)	5.3% (1)	19
				Other (please specify)	0
				<b><i>answered question</i></b>	<b>19</b>
				<b><i>skipped question</i></b>	<b>10</b>

**26. PLEASE NOTE: If you have very little knowledge about this strategy and the action items below, please scroll to the bottom of the page and select "Next" to finish the survey. Strategy 14: Please rate each action item on the likelihood that the proposed strategy will result in greenhouse gas EMISSIONS REDUCTIONS.**

	Negligible Reductions	Moderate Reductions	Large Reductions	Unsure	Response Count
<ul style="list-style-type: none"> <li>• Modify occupancy schedules for buildings with automation systems and reduce HVAC equipment schedules as appropriate.</li> </ul>	10.0% (2)	<b>50.0% (10)</b>	30.0% (6)	10.0% (2)	20
<ul style="list-style-type: none"> <li>• Modify class scheduling to reduce heating requirements and the number of buildings needed for classes.</li> </ul>	19.0% (4)	<b>57.1% (12)</b>	23.8% (5)	0.0% (0)	21
<ul style="list-style-type: none"> <li>• Develop a list of most energy efficient buildings. Give priority for class and meeting scheduling.</li> </ul>	14.3% (3)	<b>66.7% (14)</b>	19.0% (4)	0.0% (0)	21
<ul style="list-style-type: none"> <li>• Implement campus temperature set points – Heating 68 degrees, cooling to 76 degrees.</li> </ul>	9.5% (2)	38.1% (8)	<b>47.6% (10)</b>	4.8% (1)	21
<ul style="list-style-type: none"> <li>• Raise the Chill Water system temperature during the winter from 42 degrees to 48 degrees.</li> </ul>	23.8% (5)	<b>47.6% (10)</b>	23.8% (5)	4.8% (1)	21
<ul style="list-style-type: none"> <li>• Develop a purchasing policies that exceeds ENERGY STAR requirements; review all purchasing to require that ENERGY STAR or better equipment is requested wherever possible.</li> </ul>	26.3% (5)	<b>52.6% (10)</b>	15.8% (3)	5.3% (1)	19
				Other (please specify)	1
				<b><i>answered question</i></b>	<b>21</b>
				<b><i>skipped question</i></b>	<b>8</b>