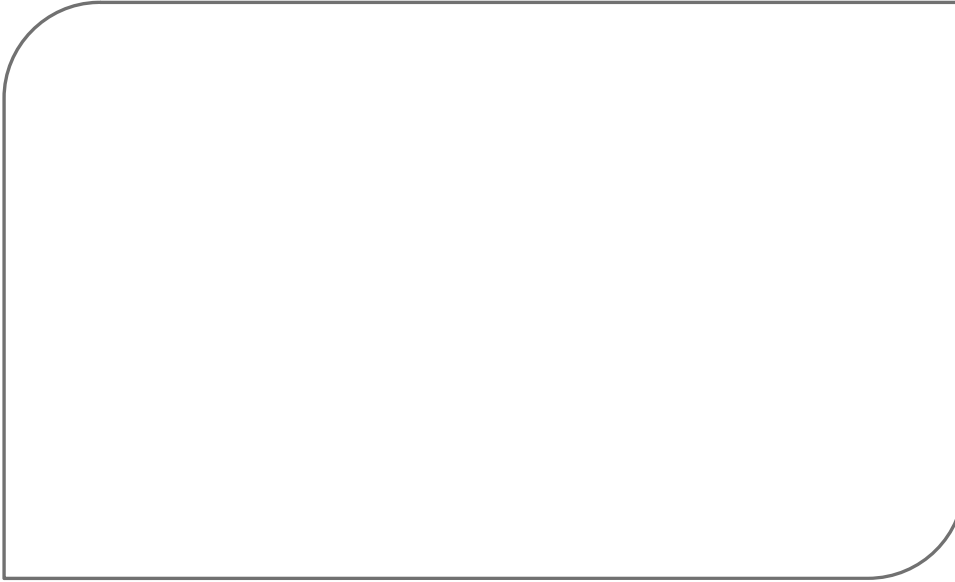


# 6.0 PROTECT RESOURCES



## PROTECT RESOURCES GOALS

- x Reduce campus water use (indoor and outdoor) 7% per year below the 2012 baseline to achieve total reduction of 70% by 2025.
- x Reduce JAF's carbon footprint by 3% per year below the 2012 baseline to achieve total reduction of 30% by 2025.
- x Increase JAF's renewable energy generation by 3% per year (absolute, not compared to a baseline) to achieve total generation of 30% by 2025.
- x Review and adapt campus design/construction standards to further integrate sustainability by 2015.
- x Increase student, staff and faculty alternative transportation use by 25% by 2025 via incentives and challenges.

## 6.1 Strategy: Increase Efficiency of Existing Buildings

DESCRIPTION

ESTIMATED COSTS AND BENEFITS  
ECONOMIC IMPACTS

## 6.2 Strategy: Beyond Buildings - Reduce Campus Energy Use

### DESCRIPTION

FOCUS AREA:  
PROTECTED RESOURCES

RELATED STARS  
SCORECARD ITEMS FOR  
THIS STRATEGY

x OP5:  
Greenhouse Gas  
Reductions

### IMPLEMENTATION STEPS

x OP8: Clean and  
Renewable  
Energy

MEASURES OF STRATEGY  
SUCCESS

x Exterior lighting  
power allowance 1.1

WHAT	WHO	WHEN
Upgrade Exterior Lighting A plan to upgrade exterior lighting is already underway; this strategy builds on this existing practice to replace all exterior lighting with high performance light emitting diodes (LEDs).	Facilities Services (Continue lighting upgrades)	2015-2017

1.1 Exterior lighting with high performance light emitting diodes (LEDs) > Tj / TT2 1 Tf .228 0 102 re Wnce 137.88 31.152 137wer

WHAT	WHO	WHEN
<p>Inventory and Prioritize Renewable Energy Application</p> <p>This action incorporates the AASHSTAR renewable energy credit with a focus on solar photovoltaics (PV) but also potentially technologies such as solar thermal. The calculations in this action assume that UAF is able to obtain 30 percent of their energy consumption from renewable sources by 2025. It includes an inventory of buildings for best renewable energy application, followed by implementation. Buildings without access to the campus CHP plant should be prioritized. UAF may wish to explore mechanisms such as Power Purchase Agreements (PPAs) to assist with 24 0 TD .0033 Tc (Po</p>		

ESTIMATED COSTS AND BENEFITS

ECONOMIC IMPACTS

ENVIRONMENTAL IMPACTS

SOCIAL IMPACTS

## HELPFUL RESOURCES

[http://www.bfrl.nist.gov/buildingtechnology/documents/  
SubmeteringEnergyWaterUsageOct2011.pdf](http://www.bfrl.nist.gov/buildingtechnology/documents/SubmeteringEnergyWaterUsageOct2011.pdf)

## 6.3 Strategy: Manage Water Efficiently

DESCRIPTION

ENVIRONMENTAL IMPACTS

SOCIAL IMPACTS

HELPFUL RESOURCES

<http://www.epa.gov/watersense/>

[http://water.epa.gov/infrastructure/greeninfrastructure/  
crw\\_challenge.cfm](http://water.epa.gov/infrastructure/greeninfrastructure/crw_challenge.cfm)





WHAT	WHO	WHEN
ExploreBicycleFriendly		

WHAT	WHO	WHEN
[Redacted]		

## COSTS AND BENEFITS

ECONOMIC IMPACTS

ENVIRONMENTAL IMPACTS

SOCIAL IMPACTS

## HELPFUL RESOURCES

<http://fmats.us/programs/metropolitantransportationplan/>

<http://fmats.us/programs/tip/>

<http://fmats.us/collegeroad/>

<http://www.fnsb.org>

<http://www.co.fairbanks.ak.us/Transportation/LongRangeTransitPlan.pdf>

## 6.5 Strategy: Enhance Commuting Choices in Fairbanks

DESCRIPTION





## 7.0 SUPPORT THE CAMPUS COMMUNITY



### SUPPORT THE CAMPUS COMMUNITY GOALS

- x Further integrate sustainability into curriculum and co-curricular programming.
- x Increase the availability of sustainability focus.



## 7.1 Strategy: Expand Employee Engagement

### DESCRIPTION

### IMPLEMENTATION STEPS

WHAT	WHO	WHEN
Organize staff “green teams” Work with building coordinators and UAF department heads to organize and convene volunteer employee “green teams”. Green teams might be established around buildings or campus areas; or around specific topic areas such as energy use, waste/recycling and/or multi modal transportation.	UAF Office of Sustainability (Organize green team structure, identify/recruit participants, appoint team leaders)  All UAF Staff (Participate on green teams as desired/requested)	Spring 2015 (Launch green teams)

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WHAT	WHO	WHEN
<p><b>Train Supervisors</b>                      Updates supervisor training curriculum/suite to provide information about UAF's sustainability goals, programs and options to help build awareness at the supervisor level so that information can be passed on to employees.</p>	<p>UAF Office of Sustainability                      (Develop curriculum, present as needed)</p> <p>UAF Human Resources                      (Provide new supervisor training)</p>	<p>Spring 2015 – curriculum development</p> <p>Ongoing – supervisor</p>

ESTIMATED COSTS AND BENEFITS

ECONOMIC IMPACTS

ENVIRONMENTAL

## 7.2 Strategy: Support Students: Curriculum and Co-curricular Initiatives

DESCRIPTION

## IMPLEMENTATION STEPS: CURRICULUM

WHAT	WHO	WHEN
Identify Faculty Champions and Convene Curriculum Working Group This core working group would regularly convene to develop learning outcomes, create minor requirements and develop assessment methodologies.	Curriculum Working Group  Vice Chancellor, Provost (Support)  Faculty Senate, GERC, CACGAC	Spring 2015
Identify Current Courses Suitable for Sustainability Minor Refer to the inventory of UAF courses completed for AASHE STARS/review additional courses suitable for a minor.	Curriculum Working Group	Spring 2015
Develop a Sustainability Minor with Cafeteria of Courses Identify specific courses and requirements.	Curriculum Working Group	Fall 2015

## IMPLEMENTATION STEPS: CO-CURRICULAR



## 7.3 Strategy: Integrate Sustainability into Planning and Design

DESCRIPTION



## IMPLEMENTATION STEPS

WHAT	WHO	WHEN
<p>Sustainable Design Guideline Development Team</p> <p>This team would develop a proposed mission and goals for sustainability performance of new buildings and major renovations.</p>	<p>Facilities Services</p> <p>CCHRC (Participation Guideline Development Team)</p>	<p>Spring 2015</p>

ESTIMATED COSTS AND BENEFITS

ECONOMIC IMPACTS

ENVIRONMENTAL IMPACTS

## 7.4 Strategy: Increase Transparency in Investment

FOCUS AREA:  
SUPPORT THE CAMPUS  
COMMUNITY

DESCRIPTION

RELATED STRATEGIES

IMPLEMENTATION STEPS

WHAT	WHO	WHEN
Create a UA systemwide Coalition Identify and bring together stakeholders from UAS, UAA and UAF to identify institutional goals for sustainable investments.	Office of Sustainability Development Office	Fall 2014
Establish Committee on Investor Responsibility Foster dialogue on investment decisions. Include faculty, staff, students, alumni, trustees, other parties.	Office of Sustainability Development Office	

HELPFUL RESOURCES

<http://www.endowmentinstitute.org/>

<http://www.unpri.org/>

<http://www.uwsa.edu/bor/policies/rpd/rpd31r13.htm>

[http://apir.stanford.edu/stanford\\_statement](http://apir.stanford.edu/stanford_statement)

<http://www.endowmentethics.org/>

## 7.5 Strategy: Develop Sustained Funding for Sustainability

DESCRIPTION









## IMPLEMENTATION STEPS

## HELPFUL RESOURCES

<http://www.nacubo.org/Products/Publications/Sustainabi>  
However, one

[http://www.aashe.org/files/documents/resources/greening the bottom line 2012.pdf](http://www.aashe.org/files/documents/resources/greening_the_bottom_line_2012.pdf)

<http://www.endowmentinstitute.org>

## 8.0 CLOSE LOOPS AND CONSERVE MATERIALS



### CLOSE LOOPS AND CONSERVE MATERIALS GOALS

Source annually 3% of food (by dollars) locally for a total achievement of 30% by 2025.

Reduce packaging for delivered goods by 15% annually to achieve 90% packaging diversion by 2022 (including packaging take back, other strategies).

- x Become a net zero waste (90% diversion) campus by 2035.

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## 8.1 Strategy: Reduce Materials and Purchase Responsibly - Packaging, Promotion, Purchasing

DESCRIPTION



## ESTIMATED COSTS AND BENEFITS

ECONOMIC IMPACTS

ENVIRONMENTAL IMPACTS

## 8.2 Strategy: Increase Diversion Rate

### DESCRIPTION

FOCUS AREA:  
CLOSE OOPS AND  
CONSERVE MATERIALS

RELATED STARS

### IMPLEMENTATION STEPS

WHAT	WHO	WHEN
<p>Convene a Waste Reduction Committee. The committee should be comprised of administrators, staff and students working across campus to build and improve UAF's diversion rate. The committee will create goals and objectives, prioritize actions and monitor progress.</p>	<p>Office of Sustainability (Lead outreach and organization of committee meetings)</p>	<p>Fall 2014/ Spring 2015</p>
	<p>Building Coordinators (Participate as members of the Waste Reduction Committee)</p>	
	<p>Facilities Services (Support Office of Sustainability organization and implementation)</p>	
	<p>Design and Construction (Participate on Waste Reduction Committee)</p>	
	<p>Marketing and Communications (Assist with disseminating information about the goals, objectives and actions identified)</p>	



WHAT	WHO	WHEN
CreateWaste/Recycling/CompostTrackingToolsand Continueto		







### 8.3 Strategy: Integrate Sustainability into Food Services

DESCRIPTION

FOCUS AREA:  
CLOSE OOPS AND  
CONSERVATION MATERIALS

RELATED STARS  
SCORECARD ITEMS FOR  
THIS STRATEGY

- x OP 6: Food Purchasing

MEASURES OF STRATEGY  
SUCCESS

IMPLEMENTATION STEPS

	WHAT	WHO	WHEN
x Percentage of food purchased regionally	<p>Convene Dining Services Committee</p> <p>This committee will spearhead efforts to seek local partnerships (beyond coffee, ice cream, etc.) and avenues for increasing the use of responsibly produced, organic, low carbon and regional foods. It will also foster conditions to increase the use and availability of such foods.</p>	Office of Sustainability (Lead committee organization and meetings)	Fall 2014/Spring 2015
x Pounds of food produced on UAF land holdings		RIS Board (Participate in meetings)	
x Percentage of organic food purchased		Chancellor's Student Food Committee (Participate in meetings)	
x Percentage of Dining Service location offering discounts for reusable containers		Dining Services (Support research and identification of opportunities)	
x Food donation program developed			
x Percentage of Zero Waste catering events			

WHAT	WHO	WHEN
<p>Inventory Ingredients Used in Dining Services</p> <p>Explore local, organic, low carbon and/or sustainably produced ingredients that could replace current ingredients used by UAF that are not sustainably produced (e.g. dairy, meat, fish, seasonal produce).</p>	<p>Dining Services Committee (Lead exploration and recommendation efforts)</p> <p>Office of Sustainability (Provide assistance to the Dining Services Committee with coordination and implementation)</p> <p>Dining Services Contractor (Discuss findings and implementation avenues with parent company)</p> <p>Cooperative Extension (Provide assistance with developing relationships with local producers)</p>	Spring 2015
<p>Develop Local Supply Network and Purchasing Cooperative</p> <p>Identify and collaborate with other local institutions to leverage larger purchasing influence on suppliers and producers. Invite local growers and processors to submit product information.</p>	Office of Sustainability (Coordinate with local	T

WHAT	WHO	WHEN
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WHAT	WHO	WHEN
<p>Increase Visibility in Dining</p> <ul style="list-style-type: none"> <li>x Increase signage (environmental/preferable labeling) for sustainable or low carbon food options.</li> <li>x Sustainability efforts in Dining Services are advertised at dining locations, on the Dining Services website and on campus.</li> </ul>	<p>Dining Services Office of Sustainability Dining Services Contractor Procurement</p>	<p>Fall 2014</p>
<p>Reduce Waste in Dining Operations</p> <ul style="list-style-type: none"> <li>x Reduce packaging and avoid the use of items not recyclable in Fairbanks</li> <li>x Switch to recyclable beverage containers such as aluminum</li> <li>x Offer discounts for using reusable containers</li> <li>x Switch to recyclable/compostable containers at grab and go locations</li> <li>x Increase composting at all dining locations and compost at UAF Eco Dump</li> <li>x Give food produced in excess to the Food Bank or local soup kitchen</li> <li>x Use waste oil for heating or to make biodiesel</li> <li>x Implement post consumer recycling of food items and</li> </ul>		

## ESTIMATED COSTS AND BENEFITS

ECONOMIC IMPACTS

ENVIRONMENTAL IMPACTS

SOCIAL IMPACTS

## HELPFUL RESOURCES

[http://akfood.weebly.com/findr  
alaskafoods.html](http://akfood.weebly.com/findr-alaskafoods.html)

[http://dnr.alaska.gov/ag/ag\\_SchoolFood.htm](http://dnr.alaska.gov/ag/ag_SchoolFood.htm)

## 9.0 SHAPE ALASKA'S FUTURE







WHAT	WHO	WHEN
Identify and formally adopt policies and repository programs. This will ensure open access to all new peer reviewed research produced by UAF faculties in a designated repository.	Office of Sustainability Rasmuson Library Center for Research Services	Fall 2015
Develop a campuswide survey. This survey will be used to identify formal partnerships and public policy development UAF is engaged in that advances sustainability.	Office of Sustainability	Fall 2015

In 2012 UAF installed its first student solar project, a 13kW solar photovoltaic system, on the Student Recreation Center.

## 10.0 CROSS-CUTTING THEMES

## HELPFUL RESOURCES



## 11.3 Monitoring Performance and Reporting Progress

## 11.4 Future Updates to the SMP

WHAT	WHO	WHEN
Recognize the Sustainability Master Plan as an official UAF guiding document.	Master Planning Committee Chancellor	Fall 2015