



# KATMAI NATIONAL PARK AND PRESERVE CLIMATE FRIENDLY PARKS ACTION PLAN 2016

## INTRODUCTION

As a participant in the National Park Service (NPS) Climate Friendly Parks (CFP) program, Katmai National Park and Preserve (NP&P) belongs to a network of parks nationwide that are putting climate friendly behavior at the forefront of park operations and resource management. As part of this program, Katmai NP&P has conducted a greenhouse gas (GHG) emission inventory, participated in a climate change and sustainability educational workshop, set climate change mitigation and GHG emission reduction goals, and integrated these actions into a park-wide Environmental Management System (EMS).



Bears on Brooks Falls  
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The EMS takes a systematic approach to identifying and addressing environmental impacts at the park. The EMS provides a framework for tracking environmental protection and sustainability priorities and details the implementation of these actions. By integrating CFP-related actions into the park's EMS, Katmai NP&P is taking an integrated approach to climate change response and sustainable management of park resources.

## ENVIRONMENTAL POLICY & SUSTAINABILITY COMMITMENT STATEMENT

Katmai NP&P is committed to protecting and preserving its natural, cultural, and archeological resources through environmental stewardship as mandated by the Service's enabling legislation - the Organic Act. This commitment includes energy, water, solid waste, chemical use, and GHG emission reductions (collectively called sustainability) as required by federal Executive Orders mandating federal entities to promote energy conservation and efficiency and make greenhouse gas reductions a priority, as stated in EO 13693 and EO 13514 respectively.

Our staff, volunteers, and contractors will be expected to follow our environmental, pollution prevention, energy reduction, and related procedures and programs. Together we will examine and conduct operations and activities in a professionally sound manner, effectively and efficiently complying with the letter, spirit, and intent of applicable environmental regulations, standards, executive orders, and policies related to sustainability.

## ACCOMPLISHMENTS

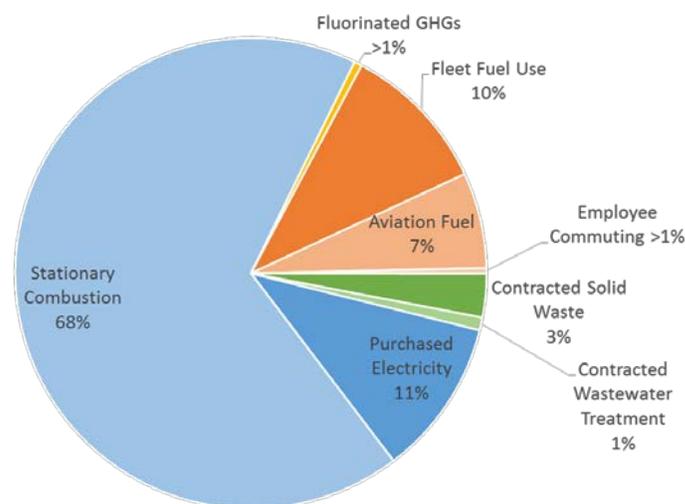
Prior to holding the CFP workshop, Katmai NP&P had already started to embark on our sustainability journey by embedding sustainability actions in our EMS. As part of these efforts, Katmai NP&P has taken a number of actions which have reduced our environmental impact.

Sustainability Concern	Completed Actions
<b>Energy and GHG Emissions</b>	Replacing incandescent bulbs with compact fluorescents and LEDs
	Replaced all T12 bulbs with T8 bulbs
	Purchased energy efficient water heaters and other appliances
<b>Transportation</b>	Providing bicycles to park staff to reduce commuter driving
<b>Waste</b>	Reusing waste oil in boilers at Brooks Camp
<b>Water</b>	Installed low-flow aerators in housing units
	Purchased for installation, 2 water refill stations to encourage reduction in single use water bottles

## BASELINE GREENHOUSE GAS EMISSIONS PROFILE

Katmai NP&P developed a GHG inventory using the Climate Leadership in Parks (CLIP) tool. For Katmai NP&P, the majority (80 percent) of GHG emissions come from energy use—stationary combustion (68 percent) and purchased electricity (11 percent). Fleet fuel use and waste disposal are also notable sources of emissions. Comparing Katmai NP&P’s emission profile to the average CFP park, Katmai NP&P emits fewer GHG emissions overall—686 metric tons of CO<sub>2</sub> equivalent (MTCO<sub>2</sub>E) per year; however, Katmai NP&P’s emissions profile is notable in that stationary combustion dominates as an emission source.

**KATM Park Operations GHG Emissions: 686 MTCO<sub>2</sub>E**



**2013 GHG Emissions from Park Operations**

## GOALS & ACTIONS

As part of the CFP program, Katmai NP&P has developed a number of goals. To help meet these goals, the park will develop annual actions and track them through the EMS. The first year of those actions are listed out below. We will continue to chart our progress against the goals annually and refine our actions as part of the plan, do, check, act process.

	GHG Emissions	Climate Change Response	Education
<b>Goal</b>	Reduce GHG emissions by 26% from baseline year of 2013 by 2025	Reduce electricity consumption by 20 percent by 2025 from 2013 baseline	Work with all concessioners to develop/implement sustainable practices into environmental management plans by 2020.
<b>2016 Action Plan</b>	<ul style="list-style-type: none"> <li>Allocate funding to install food composter to reduce wet incinerated food waste (which uses diesel).</li> <li>Begin movement of camp housing which will centralize</li> </ul>	<ul style="list-style-type: none"> <li>Begin phase out of fluorescents to LEDs at Brooks Camp.</li> <li>Allocate funding for a dorm lighting retro fit from incandescent/fluorescents to</li> </ul>	<ul style="list-style-type: none"> <li>Work with concessioner, CUAs to promote local, sustainable fisheries (e.g., wild, local salmon)</li> <li>Install water refill station(s) to open conversation about</li> </ul>

- power generation to reduce generator use from two to one larger generator.
  - Install 20 propane powered heaters in employee housing instead of diesel or electric generated heat.
- all LEDs.
  - Improve energy monitoring to better understand energy use
  - Train employees on importance of turning off lights and electric space heaters in housing.
- sustainability, and reduce single use water bottle purchases.

## ROLES, RESPONSIBILITIES, & RESOURCES

The Environmental Protection Specialist provides a leadership role in sustainability at Katmai NP&P and is responsible for overseeing the sustainability program as well as the Green Team. The Green team is voluntary group of park employees that meets regularly to discuss park challenges regarding sustainability and potential projects to assist in the reduction of the Park's annual and overall carbon footprint. The green Team and Environmental Protection Specialist work collaboratively with the leadership team to continually meet the Park's sustainability goals as set forth in the EMS and to continually evolve the program to advance the Park's sustainability mission and initiatives. In addition, staff members are encouraged to take an active role in reducing resource consumption, both at home and work. Staff should report actions taken (changing out light bulbs in their homes or setting printer to print double sided) to the Environmental Protection Specialist to help track sustainability efforts within Katmai NP&P.

## EDUCATION & COMMUNICATION

Katmai NP&P is committed to teaching employees the importance of living more sustainably especially in an area where obtaining general supplies like groceries can have such a huge impact on resource consumption. Katmai's education and communication program is still in its infancy, but is taking shape through all-employee meetings; park-wide training sessions and will eventually evolve to include a monthly newsletter that highlights past and upcoming sustainability events and accomplishments within the park and greater region as well as sustainability tips. The newsletter will be emailed to all employees and posted around the King Salmon headquarters.



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[www.nps.gov/katm](http://www.nps.gov/katm)

## CONCLUSION

The elements of our EMS form the foundation of the environmental protection, climate change response, and sustainability work that we will accomplish at the Katmai NP&P. We hope that visitors will check back in with us and see how we progress as our program continues to evolve!

## CONTACTS

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Katmai NP&P  
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Website: [www.nps.gov/katm](http://www.nps.gov/katm)

*By identifying a greenhouse gas reduction goal, climate change response/sustainability actions, and outreach initiatives related to sustainability and climate change and sustainability topics, Katmai National Park & Preserve is an official members of the Climate Friendly Parks Program. For more information about the program, please visit the CFP website or contact the CFP team (information above).*

  
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Park Superintendent 1/7/16  
Date

  
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Regional CFP Representative 12/18/15  
Date

**SHAWN NORTON**

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National CFP Representative Date