

Kipuka for Change: Climate Change as a Social Justice Issue
Climate Justice Resources:

Loli Aniau, Maka'ala Aniau (Climate Change, Climate Alert)

<http://islandclimate.net>

We are not Drowning, We are Fighting! Pacific Movement on Climate Change

<http://350pacific.org>

Climate Change Impacts in HI: A summary of climate change and its impacts to HI's ecosystems and communities

<http://seagrant.soest.hawaii.edu/sites/seagrant.soest.hawaii.edu/files/publications/smfinal-hawaiiclimatechange.pdf>

Grassroots Global Justice Alliance

<http://ggjalliance.org>

Movement Generation Justice & Ecology Project

<http://movementgeneration.org/resources/curriculum-tools/>

A People's Curriculum for the Earth: Teaching About the Environmental Crisis

<https://zinnedproject.org/materials/a-peoples-curriculum-for-the-earth/>

NOAA viewer on impact of sea level rise on the planet. Interactive.

<http://coast.noaa.gov/digitalcoast/tools/slr>

The EcoTipping Points Project: Models for Success in a Time of Crisis

<http://ecotippingpoints.org/index.html>

Tropics will be the first region to be hit hard by global warming

<http://articles.latimes.com/2013/oct/09/science/la-sci-sn-climate-change-tropics-nature-20131009>

Cochabamba People's Agreement

<http://pwccc.wordpress.com/>

Windward Climate Change Hui

www.windwardclimatechangehui.wordpress.com

Interactive NOAA viewer on impact of sea level rise on the planet.

<http://coast.noaa.gov/digitalcoast/tools/slr>

EcoTipping Points organization that Gerry Marten helped found.

<http://ecotippingpoints.org/index.html>

Simple Solutions: Addressing Climate Change

These are simple things you can do in your daily life that can make a difference rather than adding to the problem!

1. **Travel light.** Walk or bike instead of driving a car. Cars and trucks run on fossil fuels, which release carbon dioxide into the atmosphere. In the United States, automobiles produce over 20 percent of total carbon emissions. Walk or bike and you'll save one pound of carbon for every mile you travel. In rural areas and tribal reservations, walking or biking may not be safe or possible, except within business-tribal government/program, housing and school areas. Promote your tribe to build walking and bike paths. Carpool when you can. Carpooling with friends and co-workers saves fuel. Save 790 lbs. of carbon dioxide and hundreds of dollars per year.
2. **Inflate your tires.** Keep the tires on your car adequately inflated. It will burn less gas and emit less carbon. Check your automobile monthly to ensure that the tires are fully inflated. Follow this tip and save 300 pounds of carbon dioxide for every 10,000 miles you drive and approximately \$840 per year.
3. **Change your air filter regularly.** Check your car's air filter monthly. Save 800 lbs. of carbon dioxide and \$130 per year.
4. **Teleconference instead of flying.** For tribal and Native organizational meetings, if you can telephone or videoconference, you will save time, money, and carbon emissions. Airplanes pump carbon emissions high into the atmosphere, producing 12 percent of total U.S. emissions. Some tribal colleges have videoconference services.
5. **See the light.** Use compact fluorescent light bulbs. These energy-efficient bulbs help fight climate change because they reduce the amount of fossil fuels that electric utilities burn. You will save 100 pounds of carbon for each incandescent bulb that you replace with a compact fluorescent, over the life of the bulb.
6. **Adjust your thermostat.** Move your heater thermostat down two degrees in winter and up two degrees in the summer. Save 2000 lbs of carbon dioxide and \$98 per year. Heating and air conditioning draw more than half of the energy that a home uses in the United States. Turn down the heat or air conditioning when you leave the house or get out of bed. You can easily install a programmable thermostat that can save on money and carbon. Instead of turning up the heat in your home, wear more clothes, like a sweater. Save 1,000 lbs. of carbon dioxide and \$250 per year.
7. **Unplug un-used electronics.** Even when electronic devices are turned off, they use energy. Save over 1,000 lbs of carbon dioxide and \$150 per year.
8. **Check your water heater.** Keep your water heater thermostat no higher than 120 degrees. Save 550 lbs. of carbon dioxide and \$30 per year. Keeping your water heater insulated could save 1,000 lbs. of carbon dioxide and \$40 per year. For those that have extra bucks, or if you can get the tribe to commit to buying these, switch to a tankless water heater. Your water will be heated as you use it rather than keeping a tank of hot water. Save 300 lbs. of carbon dioxide and \$390 per year.
9. **Install a low-flow showerhead.** Using less water in the shower means less energy to heat the water. Save 350 lbs. of carbon dioxide and \$150. Even using less water in the shower helps.
10. **Replace old appliances.** Inefficient appliances waste energy. Save hundreds of lbs. of carbon dioxide and hundreds of dollars per year. When buying new appliances, look for energy efficiency labels and consider models that use less water, detergent, and other resources.
11. **Air-dry your clothes.** Line-dry your clothes in the spring and summer instead of using the dryer (for those that have dryers). Save 700 lbs. of carbon dioxide and \$75 per year.
12. **Weatherize your house.** Caulk and weather strip your doorways and windows. Save 1,700 lbs. of carbon dioxide and \$274 per year. Promote your tribe to develop a weatherization and energy

conservation program for both residential and tribal office buildings. Insulate your house. Make sure your walls and ceilings are insulated. Save 2,000 lbs. of carbon dioxide and \$245 per year.

13. **Switch to double pane windows.** Double pane windows keep more heat inside your home so you use less energy. Save 10,000 lbs. of carbon dioxide and \$436 per year. Be an advocate for tribal housing authorities and home improvement programs to provide assistance to tribal members to install quality double pane windows.
14. **Plant trees.** Trees suck up carbon dioxide and make clean air for us to breath. A tree in the temperate zone — found between the tropics and the polar circles—can remove and store 700 to 7,000 pounds of carbon over its lifetime. A tree that shades a house can reduce the energy required to run the air conditioner and save an additional 200 to 2,000 pounds of carbon over its lifetime. Trees provide a microclimate and sustained moisture.
15. **Garbage, recycle and use recycled products.** Buy products with less packaging and recycle paper, plastic, metal and glass. This uses less energy to manufacture than products made from completely new materials. Save 2,000 lbs. of carbon dioxide per year. For instance, you'll save two pounds of carbon for every 20 glass bottles that you recycle. Less packaging could reduce your garbage by about 10%, saving 1,200 pounds of carbon dioxide and \$1,000 per year. 100% post consumer recycled printer paper saves trees and lets them continue to reduce climate change naturally as they remain in the forest, where they remove carbon from the atmosphere. Save 5 lbs. of carbon dioxide per ream of paper. Composting helps reduce greenhouse gas emissions by reducing the number of trips trucks must make to the landfill as well as the amount of methane released by our landfills.
16. **Buy products locally.** Buy locally. Promote local businesses and food markets on tribal reservations. Think about this: If you shop at a supermarket, the food you buy may travel in a plane from the other side of the world, burning fossil fuels the entire trip. Support local tribal farmers' and ranchers to have markets to sell locally grown and raised fresh and healthy foods.
17. **Buy and grow organic and traditional Native foods.** The chemicals used in modern agriculture pollute the water supply, and require energy to produce. Practice traditional food sovereignty within your homelands.
18. **Buy renewable energy.** Electricity generation produces 40 percent of carbon emissions from the United States. A growing number of utilities generate electricity from renewable energy sources with solar panels, windmills and other technologies. If your utility offers renewable energy, buy it. If not, send them a message asking for clean energy. As tribes engage in more renewable energy development we need to promote local use and export of tribal renewable energy through the promotion of markets for tribal renewable energy. We need to get the electric utility companies and cooperatives to purchase renewable energy from tribes – as they become developed.

If you got some extra money:

19. **Buy a hybrid car.** The average driver could save 16,000 lbs. of carbon dioxide and \$3,750 per year driving a hybrid.
20. **Buy a fuel efficient car.** Getting a few extra miles per gallon makes a big difference. Save thousands of lbs. of carbon dioxide and a lot of money per year.

Sources: Adapted from Patrick Gonzales, a Nature Conservancy climate scientist who sits on the United Nations Intergovernmental Panel on Climate Change, and the Global Warming International Center, and other sources.

For more information, including governmental policy-level solutions, contact:

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