

Guam Community College
Board of Trustees
I Tano´, i Hanom, yan i Aire
Sustainability Resolution

WHEREAS, Guam Community College (GCC) recognizes the need to develop facilities and programs with attention to the quality of life of current and future generations,

WHEREAS, GCC will encourage the campus community to embrace “sustainability” by recycling or re-using materials and eliminating unnecessary waste of our natural resources,

WHEREAS, in 2010 GCC’s Learning Resource Center (LRC) became the first government of Guam building having acquired gold LEED – Leadership in Energy and Environmental Design – certification,

WHEREAS, “*I Tano, i Hanom yan Aire*” (land, water, and air) --- promotes sustainability when constructing facilities, developing programs, or educating the community so as to become better stewards of the environment, and

WHEREAS, in keeping with the Resolution of Guam’s Tri-Boards of Education adopted on 11 October 2010, “one of the priorities was to implement sustainability practices as part of the operating principles” of each educational institution and “to work towards a sustainable island economy, environment, and future”;

NOW, THEREFORE, BE IT RESOLVED, that GCC embrace and prepare the campus community for a sustainable future by (a) educating, researching, and providing awareness; (b) conserving resources; (c) recycling resources; (d) developing curriculum; and (e) constructing LEED certified buildings.

BE IT FURTHER RESOLVED, that GCC maintain I Tano, i Hanom yan Aire as an institutional priority for all campus activities and programs.

Adopted: _____

Resolution Number: _____

GUAM COMMUNITY COLLEGE

Tano, i Hanom yan Aire Sustainability Policy

Fall 2014

Introduction

To implement Guam Community College's institutional priority to go green, this statement is intended to serve as a guide for all College stakeholders. It is the responsibility of all employees, programs and students at the College to understand and practice environmental sustainability. The guidelines below can help to reduce our dependence on fossil fuels and conserve other essential resources. More importantly, adoption of this policy demonstrates the College's concern for the future of our island, its people and others around the world.

Sustainability is an ever more critical aspect of the College's mission to be Guam's leader in workforce development.

I. Education, Research and Outreach – The College recognizes that it is a stakeholder in the community and that a healthy environment is necessary for a healthy and vibrant community. Thus, the College has a responsibility to provide education and outreach with respect to environmental and sustainability issues.

A. Faculty are encouraged to incorporate sustainability and environmental topics into their curriculum. It is the Faculty who know and understand their curriculum as well as student learning outcomes best. Therefore, sustainability topics, ideas, technologies and concepts should be included as they see fit best, while adding value to student learning in the 21st century.

B. Faculty and staff are encouraged to apply for grants that support sustainability projects on campus and/or in the community.

C. Faculty and staff are encouraged to participate in community outreach and raising awareness of environmental and sustainability issues.

II. Health and Safety in the Environment – The College is committed to ensuring the health and safety of employees, students, and visitors.

A. The College will ensure that all employees have a safe and healthy working environment that is conducive to their respective tasks. This will include regular inspections guided by legislation and community standards, including those developed by EPA and OSHA.

B. The College will promptly respond to health and safety issues and comply with remediation efforts guided by legislation and community standards.

III. Operations

A. Energy

- i. Procurement - whenever possible, purchase electric appliances that have good energy efficiency ratings, e.g., Energy Star appliances, electronic devices and air-conditioning systems with a **17 SEER** rating or higher.
- ii. Turn off stand-alone air conditioning units overnight/weekends, unless cool temperatures are required to protect computers and other instruments from damage due to moisture or mildew. For this purpose, building leaders must provide a document briefly explaining the need for AC systems to run 24 hours. Implement digital or analogous timers on applicable Air-conditioning units to reduce operation hours without damaging valuable items from moisture build-up/condensation. **Many areas will require the 24/7 circulation and humidity control of AC supply air as to avert molding.**
- iii. Maintain campus thermostat settings at 78 degrees Fahrenheit (or 25.5 degrees Celsius), unless a specific temperature is required to maintain sensitive equipment/instruments (e.g., microscopes).
- iv. Schedule and conduct regular maintenance of air conditioning units for better efficiency and to decrease equipment malfunction. Proof of regular maintenance of all AC systems must be provided by Maintenance personnel to appropriate Administrator(s).
- v. Turn off lights when rooms, including restrooms, are not occupied.
- vi. Turn off all electronic devices and appliances (e.g. computer, portable and compact printer, radio, coffee machine, water dispenser, microwave, etc...) prior to leaving the office. Recommendation to plug these devices and appliances into a multiple-outlet or surge protector connected to a digital timer for automated shut-off.
- vii. Install energy-saving light bulbs or LED lighting.
- viii. Whenever possible, include natural skylights in the design and construction of new and renovated buildings. This will reduce dependence on artificial lighting sources which require energy.
- ix. Install photovoltaic systems wherever feasible. The campus now has solar-powered lights in the parking lots and PV grid-tied systems on five of their buildings. All new construction and renovated buildings should include photovoltaic systems not to exceed the 100 kilowatt size allowed by GPA (for commercial buildings).
- x. Install other types of solar technology proven to reduce energy consumption and proven to work effectively in island environments. (e.g. solar thermal AC systems, solar water heater, solar thermal).

B. Conserve Resources

- i. **To reduce the volume of trash in our landfill and exposure to potentially harmful/carcinogenic compounds**, Styrofoam (i.e. polystyrene) containers shall be banned in campus food establishments and events, including parties and fundraising.
- ii. Procurement: Whenever possible purchase only certified biodegradable paper or corn-based products for campus food establishments and events, including parties and fundraising. (e.g. paper plates, biodegradable utensils, and other food packing containers)

- iii. Ban the utilization of single use plastic containers (e.g. bottled water and plastic food containers). These petroleum based products contribute to issues with our landfill as well as human health.
- iv. Deploy reusable water-bottle refill stations on GCC and encourage the campus community to utilize reusable water bottles for this purpose. This will most definitely reduce the issues associated with plastic bottled beverages both from an environmental and human health stand-point.
- v. Encourage the campus community to Bring Your Own Utensils (BYOU) to campus events.
- vi. Water is one of the most valuable resources we have. To help conserve this resource, the purchase and application of water conservation technology (e.g. low-flow shower heads and faucets, waterless urinals, etc...) shall be integrated throughout campus. With the implementation of such technologies, GCC can conserve thousands of gallons of water every year.
- vii. Integration of non-potable, rainwater catchment systems on future new constructions for the purpose of conserving resources.
- viii. Use electronic versions of documents as much as possible, rather than printing paper copies. Only print when necessary. The Guam Community College can reduce operation cost by thousands of dollars by simply using more electronic/digital versions of documents and printing ONLY when necessary.
- ix. Establish default printer settings to print on both sides of paper at all times unless alternative settings are required.
- x. Use the blank side of a used sheet of paper for printing or scratch paper.

C. Recycling/ Waster Diversion

- i. Procurement: "Boiler plate" clauses are to be included within procurement tenders, for the proper handling, removal, disposal, recycling of replacement items, as well as towards averting the accumulation, storage of waste/debris within the campus in a sustainable manner.
- ii. Aluminum: The College participates in the i-Recycle Program and has an Aluminum Can dumpster on-site. Place **only aluminum cans** in the dumpster or designated recycle bins. Note: Items such as aluminum food trays are recyclable and eligible for redemption - these should not be placed in the regular trash.
- iii. Plastics – place empty bottles or food containers that are marked as **#1 (PETE)**, or **#2 (HDPE)** in the plastic recycle bins; no plastic bags or diapers. Ensure that bottle caps are taken off (and thrown in the trash) prior to disposing in the proper bin.
- iv. Corrugated Cardboard - boxes must be flattened and placed in designated recycling dumpsters.
- v. Glass – separate bottles, jars, and mirrors from regular trash - deliver to solid waste transfer station. **Do not include energy-saver or fluorescent light bulbs** - set these aside for hazardous waste disposal.
- vi. Paper –
 1. Paper material such as office paper, notebook paper, magazines, text books, phonebooks, and other glossy paper/boxes that are

NOT CORRUGATED cardboard can be disposed of in designated paper recycling bins on campus.

2. Shredded office paper (no glossy/waxed paper) can be recycled as well, however, it is best to bag it and set it aside for reuse as compost, mulch, etc...
3. The use of electronic phone books, catalogs, magazines, etc... available online is highly recommended to conserve natural resources.
4. As much as possible, print on both sides of paper as to conserve resources.
5. Reusing paper with one sided prints for notes, scratch paper, printing personal copies is highly recommended before recycling.
6. The use of electronic editing software and submitting or sending electronic versions of documents is also recommended to conserve resource and promote the use of such technologies.

vii. Scrap Metal –

1. Steel cans, for example 'Mr. Coffee' and most food cans, are difficult to crush and have a vertical seam. Set these aside - do not mix with aluminum cans. Local recycling centers accept steel cans as scrap metal.
2. Discarded metal items should be delivered to recycling centers.

viii. Ink Cartridges and Toners

1. Procurement: Purchases of ink toners and cartridges should be done so through a company that allows for the return of used and/or emptied ink toners and cartridges (purchased through them) for the purpose of recycling or refurbishing of the item(s).
2. All empty/used Xerox ink toners and cartridges should be brought to the Bldg. 2000 copier room (1st floor left wing) for proper recycling.

D. Miscellaneous Waste Stream

- i. Cooking Oil - set aside for removal to GRESCO or Detry. Notify food vendors on campus.
- ii. Wood - try to reuse as much as possible; deliver to green waste facility. Note: treated wood cannot be used for compost.
- iii. Green Waste - includes tree branches and vegetable/fruit waste
 1. reduce to chips and/or use in campus or home compost.
 - a. Consider the rental or purchase of a wood chipper.

E. Hazardous Waste

- i. Engine oil - set aside for removal to Gresco- Notify Automotive Department
- ii. Chemical/Biological - dispose according to specific MSDS or OSHA regulations.
- iii. Energy-Saving light bulbs (i.e. compact fluorescent light bulbs) contain mercury - do not place in the regular waste glass stream. Place the burned out bulb in a plastic bag and tape shut. Set aside for hazardous waste disposal.