

# East-West Center's Sustainability Efforts and Programs

Hawaii Sustainability and Pollution Prevention Partnership  
April 27, 2011

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# Student Initiatives

# EWCPA Sustainability Initiative

The goals of the EWCPA's Sustainability Initiative are to

- (1) reduce the East-West Center's environmental impact,
- (2) create a healthier, more sustainable and livable community, and
- (3) use the lessons we learn here to help care for the health of the environment and quality of life in our home countries.



# EWCPA Sustainability Initiative

Since the Sustainability Initiative was established in 2008, more than 100 EWC participants from 25+ countries have logged over 2,400 volunteer hours in an effort to green the East-West Center.





## East-West Center Participants Association Declaration of Sustainability

- 1) Encouraging the EWCPA community to bring their own reusable cups, plates, and utensils and the EWCPA Board to purchase only biodegradable, recycled and/or recyclable supplies
- 2) Utilizing local and/or organic foods and food vendors for EWCPA-sponsored events
- 3) Expanding recycling efforts in the East-West Center
- 4) Supporting opportunities for students to learn more about issues of sustainability
- 5) Working with the EWC Administration and Facilities to limit our impact on the natural environment
- 6) Establishing a permanent, chartered position on the EWCPA Board for a Sustainability Coordinator

# Waste Reduction



- EWCPA Board resolution on plates, cups, and utensils at EWCPA-sponsored events
- Old & abandoned bikes are donated to Cycle Manoa
- Community-wide vote on phone books resulted in 80% reduction
- Continued experimentation with composting in Hale Kuahine & community garden
- Sustained efforts to increase awareness about recycling
- Scope of recycling has increased in the dorms & at Burns Hall

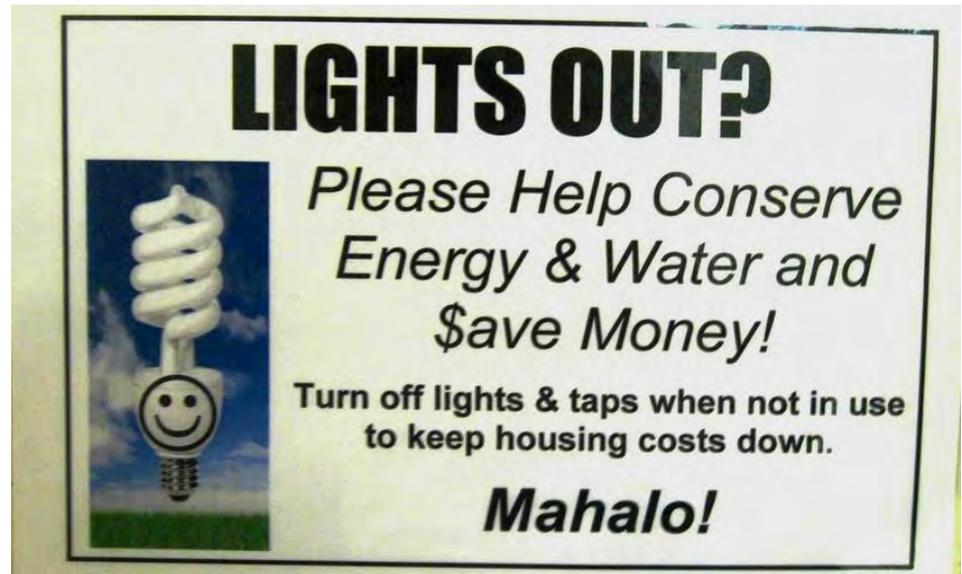
# Recycling Team



# Energy Savings



EWC participants & EWC Facilities have been meeting the last few years to discuss changes that can be made to reduce our energy & water consumption and reduce our waste generation.



# Water Use



- Student-designed signs encouraging water conservation (2007-present)
- Reduced-flow shower heads (2008)
- Reduced-flow faucets (2009)
- Significant reductions in water use in Hale Manoa, Hale Kuahine, and Burns Hall.

# Organic Garden & Composting



# EWC Sustainability Task Force



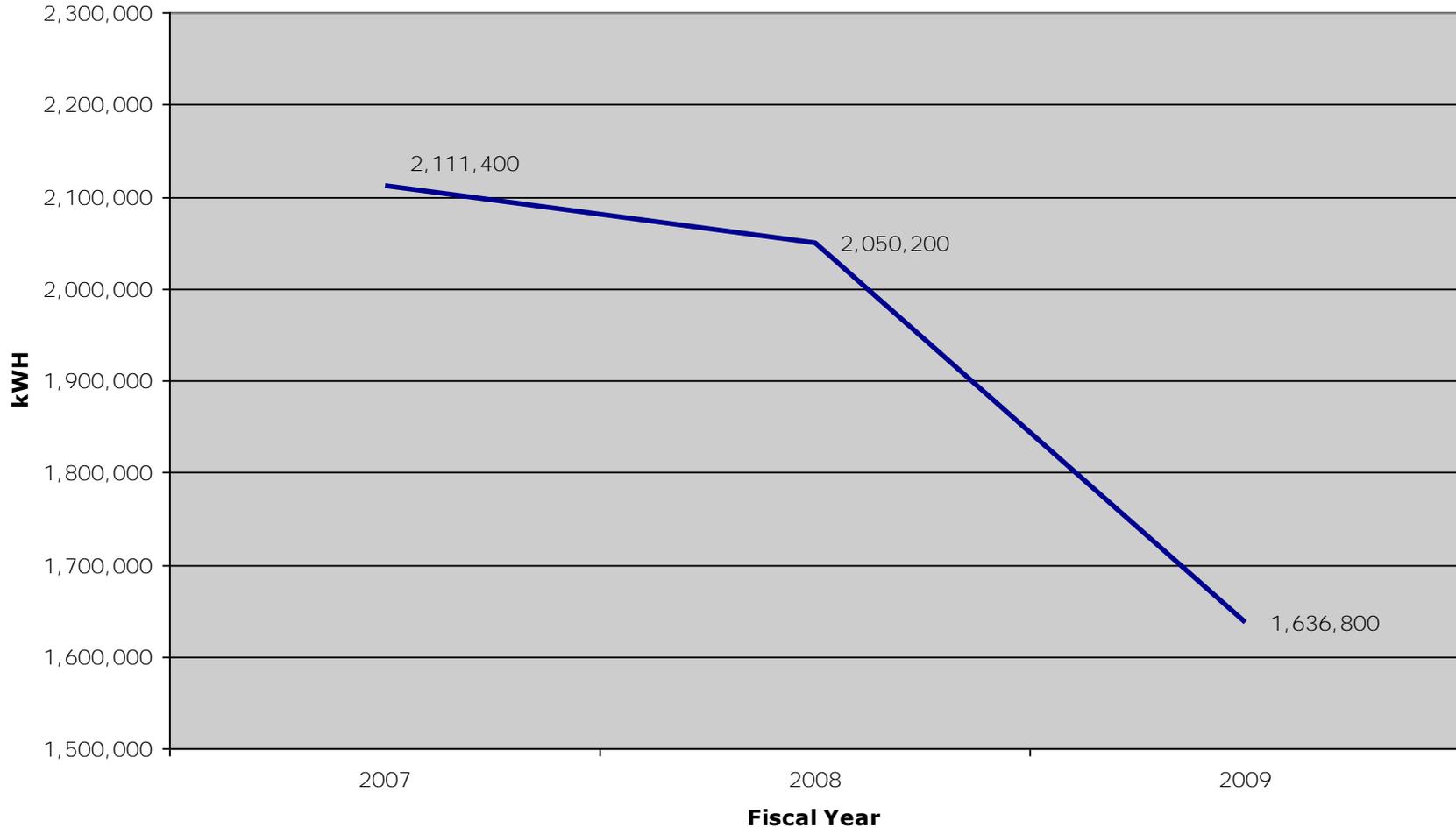
In Fall 2009, the EWCPA President and Sustainability Coordinators met with EWC President Charles Morrison to discuss ways of lessening the Center's environmental impact. As a result, President Morrison established the EWC Environmental Sustainability Task Force.

# EWC Facilities

# Burns Hall Sustainability Initiatives 2007 - 2009

- Delamped office and corridor light fixtures
- Installed LED exit signs
- Replaced all incandescent light bulbs with CFL's
- Installed motion detectors and time switches
- Discontinued weekend and holiday air conditioning
- Raised thermostats 2 degrees
- Turn off HVAC motors and pumps when not needed
- Instituted formal recycling program
- Implemented green cleaning program

## Burns Hall Energy Use 2007-09

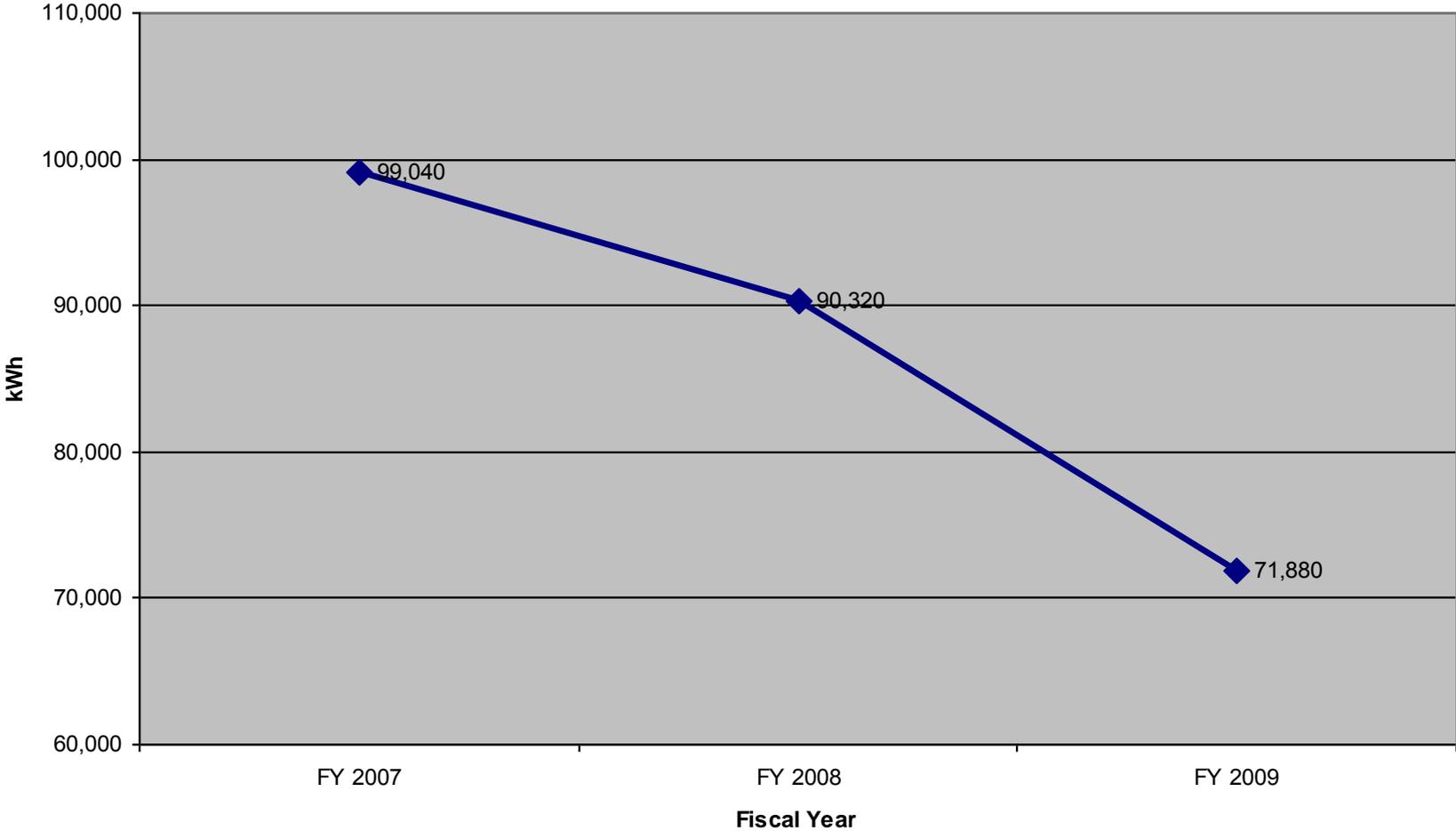


Burns Hall's energy consumption was reduced by **474,600 kWh (22.5%)** between 2007 and 2009.

# Hale Manoa and Hale Kuahine Sustainability Initiatives 2007 - 2009

- Installed LED exit signs
- Replaced incandescent light bulbs with CFL's
- Installed motion detectors and energy efficient lighting
- Installed low-flow aerators on sink faucets
- Installed low-flow shower heads
- Implemented green cleaning program

# Lincoln Hall Energy Use 2007 - 2009



Lincoln Hall's energy consumption was reduced by **27,160 kWh (37.5%)** between 2007 and 2009.

# Jefferson Hall Sustainability Initiatives 2007 - 2009

- Installed high-efficiency rooftop air conditioning units
- Installed variable frequency drives on cooling towers
- Implemented green cleaning program

# Looking ahead.....

- Replacement of existing Burns Hall air conditioning chiller plant (In progress; July 2011 completion)
- Install variable frequency drives on cooling towers (awaiting funding)
- Install solar hot water systems at Hale Manoa and Hale Kuahine (Hale Manoa completed February 2011)
- Retrofit fluorescent light fixtures with energy efficient ballasts and lamps (Ongoing)
- Install photovoltaic system (Deferred)
- Install low flush/dual flush toilets
- LED lighting

# Education

# East-West Center Education Program

Study of the U.S. Institute for Student Leaders on Global Environmental Issues (SUSI) – Dept of State funded





# EWC Publications

# Brand Manual 2010



- BRANDING PRINCIPLES
- LOGOS & LOGOS
- TYPOGRAPHY
- PHOTOGRAPHY
- COLORS
- ENVIRONMENTAL GRAPHICS
- WEB
- BOOK AND PRINTING
- BRAND PROGRAM RESOURCES

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# Going green with paper choices

- Lighter Footprint=Lower Cost
  - Recycled paper
  - Lighter-weight, less-shiny paper
  - Fewer pages, when possible
  - Reuse and recycle the old stuff!



- Carbon neutral printing
- Recycles glossy magazines, catalogs, brochures, direct mailing pieces & phonebooks for recycling
- Certified products



# Certified Logos

- Responsible forestry.



- Print carbon neutral.



- Eco-friendly inks.



# Research



# EWC Research Program: Sustainability in the Asia-Pacific Region

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# Pacific RISA

*managing climate risk in the Pacific*



- Build adaptive capacity to climate risks in diverse island settings
- EWC, UH, NOAA, USGS, US FWS collaboration
- NOAA Climate Program Office, 5 years, \$3.9m

# Major Climate Challenges for Pacific Islands

- Warmer air temperatures
- Changes in rainfall patterns with potential for more droughts & floods
- Potential for more severe hurricanes & tropical cyclones
- Increased ocean temperatures & acidity
- Long-term rise in sea level



# “Water is Gold”

- Sustainable island development
- Threat to food security
- Water resource management requires understanding tangible & intangible impacts





# “Cities at Risk” – Dr Roland Fuchs

- Partners include Global Change SysTem for Analysis, Research, & Training (START), Asia Pacific Network for Global Change Research (APN), Chulalongkorn University, & others
- Climate scientists, urban planners, disaster managers, policy makers
- Review findings & projections, assess science & policy gaps

# “Governance for Sustainable Development” – Dr Shabbir Cheema

TRENDS & INNOVATIONS IN GOVERNANCE

## BUILDING TRUST IN GOVERNMENT

*Innovations in Governance Reform in Asia*

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TRENDS & INNOVATIONS IN GOVERNANCE

## ENGAGING CIVIL SOCIETY

*Emerging Trends in Democratic Governance*

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TRENDS & INNOVATIONS IN GOVERNANCE

## CROSS-BORDER GOVERNANCE IN ASIA

*Regional Issues and Mechanisms*

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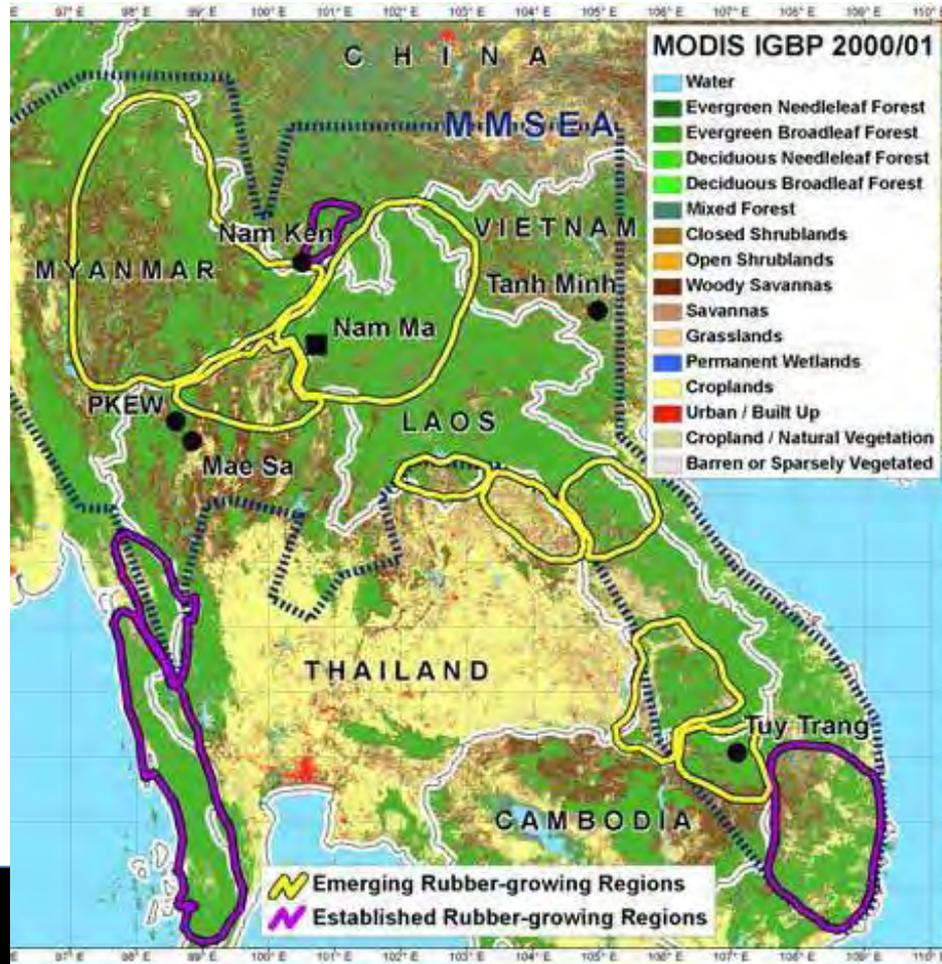
G. Shabbir Cheema  
Christopher A. McNally  
Vesselin Popovski

- Partners include China Center for Comparative Politics and Economics, Harvard University’s Kennedy School of Government, United Nations University, Soka University of America and national institutions in six Asian countries
- Emerging regional and global issues in governance for sustainable development
- Addressed governance reform and innovations for sustainable development
- Forum to exchange experience and practices among training and research institutions and government officials



# “Expansion of rubber and its implications for water and carbon dynamics in Montane Mainland SE Asia” - Dr Jeff Fox

- Multidisciplinary team from EWC, UH, National Univ of Laos, Harvard Univ, Carnegie Institution
- Builds on many years of land use/ land change research
- Exchange views and build strategies for supporting sustainable development



# Next Steps



- Green Business Program certification
- Master Plan for Sustainability
- Internships
- Program expansion
  - Environmental Leadership Institutes for Asia Pacific & US undergrads