



2008 NEMS GOALS AND OBJECTIVES

ENVIRONMENTAL ASPECT	5-YEAR GOAL	OBJECTIVE
Multiple Aspects	1. Improve the NEMS	<ul style="list-style-type: none"> a. Issue NIH Environmental Policy as Manual Issuance b. Define and Document NEMS Communications Procedures c. Stand up Working Groups for Clinical and Animal Care Activities
	2. Deploy and maintain the NEMS	a. Document Facilities Operations and Maintenance Procedures with SOPs
		b. Revise Waste Disposal Guide
		c. Develop and deploy office-specific awareness program
		d. Integrate the Rockville facilities into the NEMS
		e. Develop and execute IC-specific Green Team Pilots
f. Develop and deploy environmental awareness strategy at NIDCD		
Air Emissions	1. Decrease NOx emissions by 20%.	a. Develop policy is appropriate control for the use of natural gas during Ozone Depleting Season to eliminate use of fuel oil #2.
	2. Controlling Ethylene Oxide Emissions throughout the NIH campus.	None.
	3. Reducing NOx Emissions from Emergency Generators.	a. Conduct and report on study of the potential use of natural gas for emergency generators (conversion and new units) and Fuel Cells – potential application on the CIT project (bldg 12).
		b. Draft policy for use of natural gas.
4. Reducing CO Emissions.	a. Conduct and report on study of potential reductions in CO and identify appropriate % reduction goal.	

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	5. Reduce Ozone Depleting Substances Emissions.	None.
Air Emissions & Natural Resource and Raw Material Consumption – Fossil Fuels	1. Expand procurement and use of Alternative Fuel Vehicles (AFV) so that a majority of the NIH fleet are AFVs	a. Reduce petroleum base fuel consumption by 2% annually. b. Increase alternative fuel use by 10% annually. c. Order at least 75% of new vehicles as alternative fuel.
	2. Expand Participation in the Transportation Programs.	a. Conduct or participate in 6 transportation outreach events.
Chemical spills/leaks to water or ground, Air Emissions, & Ecological Disturbance	1. Maintain compliance for underground storage tanks	a. Address deficiencies identified by assessment
Chemical Waste	1. Develop/Improve/ Update Program Management Tools.	a. Conduct pilot of inventory system (Vertere) in 10 labs. b. Determine future implementation efforts for chemical inventory tracking. c. Perform laboratory surveys as part of waste management outreach initiative d. Integrate EnviroWare Waste Management Data with GIS
	2. Reduce Disposal of Unused Chemicals by 30% by 2009.	a. Develop strategy for reducing unused chemicals.
	3. Reduce Disposal Rates of NIH Target Chemicals.	a. Generate baseline and develop strategy to reduce disposal rates of target chemicals.

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		<ul style="list-style-type: none"> b. Eliminate mercury use from NIH facility, lab and clinical operations
Ecological Disturbance	<ul style="list-style-type: none"> 1. Maintain compliance with NEPA and mitigate the NIH's environmental impacts from actions it initiates. 	<ul style="list-style-type: none"> a. Perform follow-up inspections of mitigation measures that the NIH commits to in its EAs or EISs.
Energy Consumption	<ul style="list-style-type: none"> 1. Reduce energy intensity every year by 3% up to a cumulative 30% reduction by the end of FY 2015. 2. Increase purchase of renewable energy to 7.5% by 2013. 3. Reduce source energy. 	<ul style="list-style-type: none"> a. Cascade energy goals to the Executive Officers of each IC. b. Audit 10% of auditable square footage on campus. c. Improve energy conservation in work spaces. d. Review potential for the back-up power project for Building 12 to use fuel cells to provide energy for this facility. e. Continue to participate in PEPCO's Voluntary Load Reduction Program. f. Improve energy conservation at NIDCD offices. a. Purchase at least 3% of all electricity consumption derived from renewable sources. a. Commission a steam driven electrical generating turbine in the Mark O. Hatfield Clinical Research Center facility to convert steam pressure reduction energy to electricity that would otherwise be wasted.
General Waste	<ul style="list-style-type: none"> 1. Increase Recycling of General Solid Waste – Recycle at least to 50% of solid waste 	<ul style="list-style-type: none"> a. Conduct on-site solid waste assessment in 2008 b. Conduct outreach to increase recycling in labs and offices in 2008 c. Continue construction debris recycling in 2008.

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		<ul style="list-style-type: none"> d. Identify contractor for animal bedding composting e. Identify contractor for cafeteria food waste composting f. Negotiate use of biodegradable utensils and paper/plastic dinnerware g. Participate in major outreach events including Earth Day and America Recycles Day in 2008 h. Improve recycling compliance at Rockville sites i. Integrate green language into new leases for Rockville facilities j. Reduce waste at NIDCD. k. Reuse materials at NIDCD. l. Recycle materials at NIDCD.
	<ul style="list-style-type: none"> 2. Increase Electronics Recycling at NIH Campus and Purchase of Green Computers by Participating in the Federal Electronics Challenge 3. Create Zero Waste Event Program at NIH 4. Implement NIH Green Purchasing 	<ul style="list-style-type: none"> a. Establish a directive where all computer purchases and life cycle management activities are within FEC compliance guidelines b. Provide procurement specialists with training regarding FEC and EPEAT standards. c. Implement EPEAT standard for purchase of NIH computers and monitors in NITAAC ECS III d. Meet FEC End-of-Life Criteria for Electronic Assets, increase/improve NIH electronic waste recycling a. Promote Zero Waste Program through outreach activities and Special Events Notifications Process. a. Identify a green purchasing source that could be promoted for use at NIH. b. Produce a Best Practices listing providing proven green products being used at NIH. c. Develop an outreach program to deploy the Green Purchasing Program throughout NIH.

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		<ul style="list-style-type: none"> d. Explore the appropriate means for tracking green purchasing and the resulting benefits through development of a database program or modifying current systems. e. Increase sale of 13423 compliant products in NIH self-service stores and through NIH Stock Catalog f. Green NIH Commercial leases to require full recycling services and to be 13423 compliant g. Green NIH construction contracts and achieve maximum construction debris recycling h. Green NIH cafeteria contracts to include maximum recycling, composting, 13423 compliance and biobased products use i. Green NIH custodial contracts to support maximum NIH recycling and use of environmentally preferable products j. Create and Launch NIH Green Purchasing Portal
Liquid Discharges to Surface and/or Groundwater (Stormwater) & Soil Erosion	1. Provide Awareness for Voluntary Stormwater Pollution Prevention Activities	a. Conduct Four (4) Strategic Community Outreach Activities in 2008.
	2. Improve Water Quality of Stormwater Discharges from NIH	a. Complete the stencils design
		<ul style="list-style-type: none"> b. Plan stencil location using the inventoried stormwater drains c. Start reviewing and finalize the current NIH Spill and Pollution Prevention Plan to reflect the current NPDES permit and requirements

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	3. Decrease Quantity of Stormwater Discharge	a. Improve NIH Storm Water System through capital improvements.
	4. Continue monitoring and maintain compliance of legacy sites	a. Continue to pump, treat and monitor the Bitterroot Valley Sanitary Landfill
		b. Continue to provide financial assistance for Track V Landfill cleanup
		c. Obtaining formal closing of Sabana Seca
Medical Pathological Waste	1. Reduce Medical Waste Shipped for Off-Site Incineration by 75% by 2010.	a. Plan for educational outreach to train users of new sorting, labeling, and packaging procedures required for use of the new on-site treatment system.
Natural Resource and Raw Material Consumption - Water	1. Reduce water consumption intensity by 2% annually through FY2015	a. Audit 10% of facilities for water conservation and retrofit as appropriate.
Radioactive Waste	1. Reduce off-site disposal of liquid scintillation vials	a. Investigate potential for procuring treatment system for treating liquid at NIH
	2. Reduce the amount of dry active waste sent offsite for disposal	a. Increase use of decay-in-storage program by holding dry active waste containing very short lived radionuclides
Wastewater (Liquid Discharges to Sanitary System)	1. Improve quality of Waste Water discharge from NIH Bethesda Campus	a. Complete water chemistry modeling.
		b. Install and maintain neutralization/equalization systems as lab projects are implemented.

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