

**EFCOG  
Environmental Subgroup Meeting**

**Best Practice**

**Pollution Prevention and  
Sustainability**

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# P2 and Sustainability



## ■ Multi-dimensional system

- P2 represents pollution prevention /recycling waste
- P2 facilitates compliance
- P2 minimizes liquid effluents and air emissions at the source
- P2 conserves natural resources and saves money (avoided costs of disposal)
- P2 limits liability (future PRP involvement)
- P2 encourages Environmentally Preferable Purchasing (EPP)
- P2 improves employee morale
- P2 saves labor
- P2 facilitates safety initiatives/S2 (Safety Solutions Program)
- P2 saves ENERGY (reduction of GHG's)!!!!!!!!!!!!!!

# Summary of BNL's P2 Program FY07-FY10

	Number of P2 Proposals Submitted						
	F&O	CAD	NSLS	Small Science	EP/WM/EM	Total	Sustainable %
2007	4	1	1	10	3	19	21+
2008	1	2	3	8	1	15	25+
2009	5	0	1	8	1	15	50+
2010	5	0	0	2	0	7	20+
<b>Total</b>	<b>15</b>	<b>3</b>	<b>5</b>	<b>28</b>	<b>5</b>	<b>56</b>	<b>28</b>

**Notes:**

NSLS = National Synchrotron Light Source

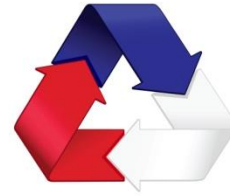
CAD= Collider Accelerator Div.

F&O = Facilities and Operations Dir.

EP/WM /EM= Environmental Services, Waste Management Division and Environmental Management.

\* Indicates Sustainability/Energy-related proposals.

# Past P2 Awards



## ■ 2008 DOE Pollution Prevention Award

- Total nitrogen reduction at Sewage Treatment Plant using cafeteria wastes
- Rectified nitrogen exceedances in NPDES permitted discharge
- Fulfilled plant's BOD requirements (increase in efficiency)



# Past P2 Proposal Awards

## 2006 DOE BEST IN CLASS P2 AWARD

- Reuse of concrete for road bed material
- Waste prevention/waste-product
- Reduces # of vehicle miles traveled (pulverizing done on-site)



## 2006/2007/2008 Electronics Reuse and Recycling Campaign White House Award

- Reuse of waste electronic products
- Off-site disassembly of electronics by vendor (UNICOR)
- Zero landfill policy

## 2008 DOE P2 Award for Lab Equipment that Fluorescently labels bio-molecules vs. radioactive labeling



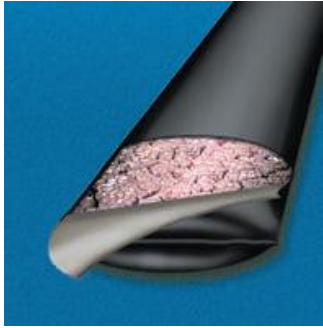
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## 2006 DOE P2 Noteworthy Practice Award

On-site composting of animal bedding

# Past P2 Funded Proposals

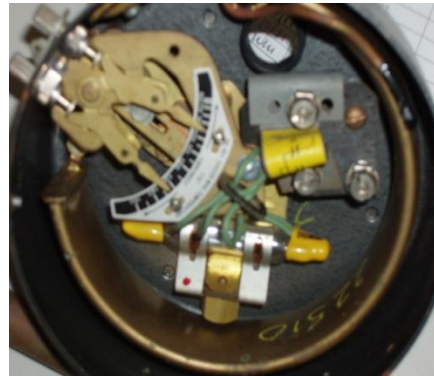


Dewatering of Sludge from the Sewage Treatment Plant's Aerobic Digesters and Primary Clarifier through the use of 'geotubes'.  
**2007**



Aerosol can puncturer  
**2007**

# Recent Winning P2 Proposals (cont'd.)

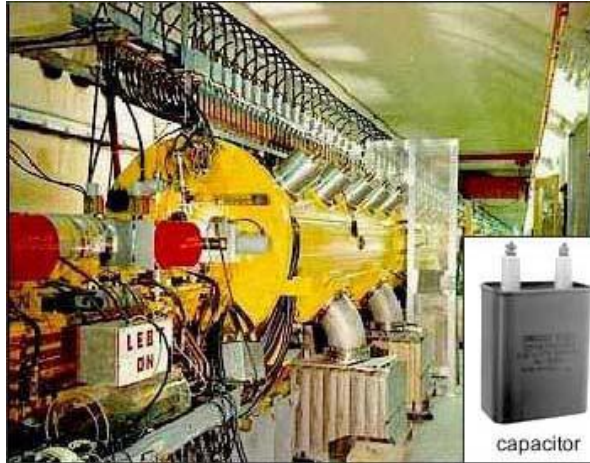


# Recent P2 Proposals (con't.)



# On the horizon....

2009: DOE P2 Award Nomination for elimination of PCB capacitors



2010 P2 Proposal : cafeteria food composter



# Possible integration of P2, S2 (Safety Solutions) and Energy Challenge Programs



# Lessons Learned

- Get Line Organization interest and input (VITAL)
- Ensure win-win-win-win situation (financials-P2-S2-E2)
- Publicize
- Keep program funded
- Submit award nominations to DOE, EPA, and State
- PUBLICIZE winning proposals !!!!