

US EPA ARCHIVE DOCUMENT



Greening Your Casino

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Greening Your Casino

- ◆ **Benefits**
- ◆ **Opportunities**
- ◆ **Tips for reducing waste**
- ◆ **Pollution Prevention Assessments**
- ◆ **Funding Sources**
- ◆ **Tools and Resources**

What are the benefits?

- ◆ **Less harm to the environment**
 - Reduced exposure to toxic chemicals

- ◆ **Significant Cost Savings**
 - Energy
 - Water
 - Solid Waste

- ◆ **Improve overall well being of employees and guests**



Reduce, Reuse, Recycle

- ◆ **Gaming Area**
- ◆ **Restaurants**
- ◆ **Hotel/Spa**
- ◆ **Grounds Maintenance**
- ◆ **Equipment**
- ◆ **Purchasing**



Opportunities Gaming Area

- ◆ Energy Efficient Lighting/LED conversions (slot machines/exit lights)
 - 50% less energy
 - Last longer
 - Do not contain mercury
 - Cool to the touch - reduce HVAC load
- ◆ Cashless machines
 - Eliminates plastic containers
 - Requires less energy
- ◆ Re-Used decks of cards
 - Sold in gift shops
 - Placed in hotel room for guest usage



Opportunities

Gaming Area cont.

- ◆ Use glassware instead of bottled water and cans plastic cups
- ◆ Encourage guest to recycle make sure bins are at the entrances and exits.

Opportunities Restaurant

- ◆ Recycling
- ◆ Composting
- ◆ Water and energy efficient systems
- ◆ Less toxic janitorial products



Opportunities Restaurant

From this... **Cooking Oil = Biodiesel**



Used Cooking Oil



Processing

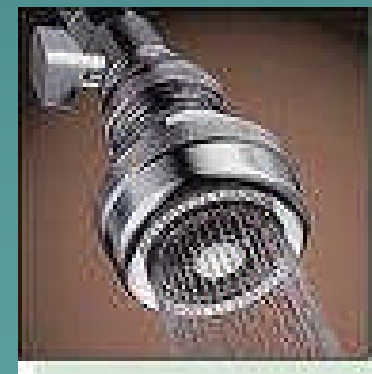
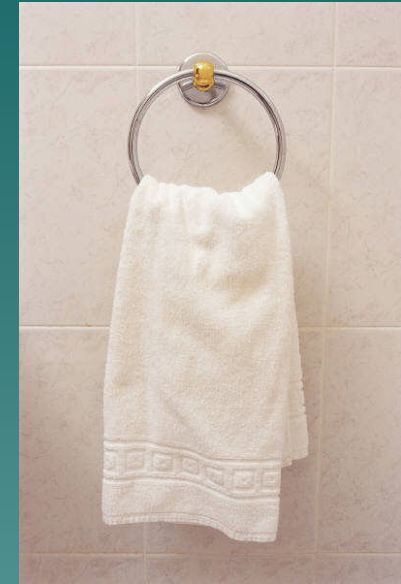
To this



Biodiesel

Opportunities Hotel

- Linen/Towel Reuse Program
- Low-flow Faucets, Shower Heads and Toilets
- Seasonal Hotel Pool Operation



Opportunities

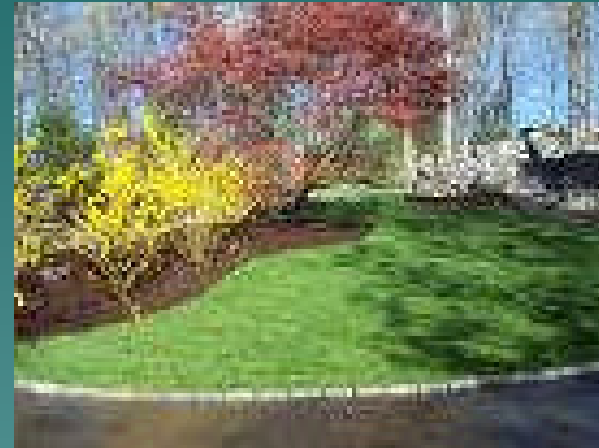
Hotel/Spa cont...

- ◆ Energy efficient heating and cooling systems-Programmable Thermostat
- ◆ Energy efficient lighting
- ◆ Occupancy sensors
 - storage area
- ◆ Use less toxic products
 - Janitorial
 - Personal care (spa)



Opportunities Ground Maintenance

- ◆ Compost
- ◆ Reduce pesticides/
herbicide use
- ◆ Water efficient systems
- ◆ Energy efficient lighting





Opportunities Equipment



Commercial Appliances



Computers



Washers



Fryers



Opportunities

Environmentally Preferable Purchasing

Things to consider when purchasing:

- Buy in bulk
- Less toxic products
- Energy-efficient and water conserving products
- Reusable, refillable, biodegradable materials
- Recycled products
- Energy efficient equipment

Green Purchasing Products

Cleaning Supplies



Micro-Fiber Mops

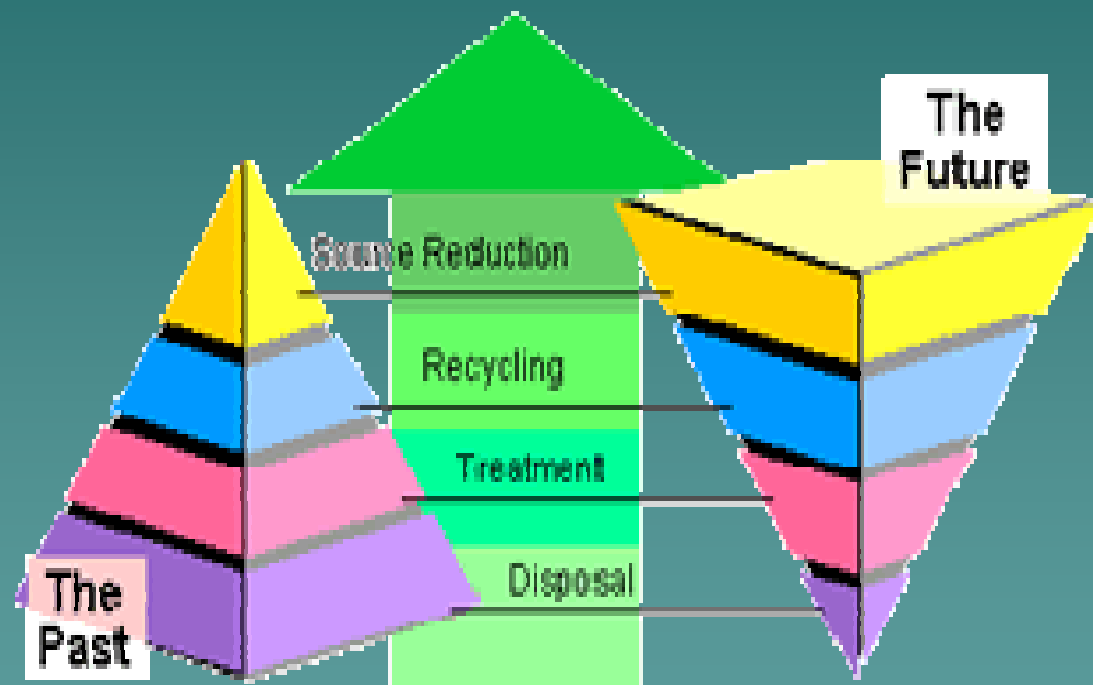


Products Mixing station



Pollution Prevention Strategies

- ◆ Research
- ◆ Select
- ◆ Implement
- ◆ Monitor
- ◆ Educate
- ◆ Share your successes



Key First Steps

- ◆ **Understand Decision-makers**
 - Operational Costs – **Emphasize Cost/Benefit**
 - Worker Safety – **Emphasize reduced chemical exposure, worker's comp issues**
 - Sales/Marketing – **Emphasize Green Ethic**

- ◆ **Know Your Costs:**
 - Fresh Water (\$/1,000 gal)
 - Wastewater Treatment (\$/1,000 gal)
 - Solid Waste (e.g. \$/ton)
 - Energy (e.g. \$/kwh)

Starting a Waste Reduction Program

- ◆ Secure Support
- ◆ Conduct a Waste Characterization Study
- ◆ Develop a Waste Reduction Plan
- ◆ Implement the Program



Pollution Prevention Assessments

◆ **Benefits:**

- Cost savings
- Operating efficiency
- Safer environment for employees & customers
- Marketing advantages
- Community sustainability

◆ **P2 opportunities:**

- Hazardous Waste
- Water Conservation
- Solid Waste/Recycling/Composting
- Green Purchasing
- Energy Efficiency

Tips for Reducing Waste

- ◆ Become a WasteWise partner
www.epa.gov/wastewise
- ◆ Become a certified Green Business Program
www.greenbiz.org
- ◆ Develop a Environmental Management System
www.epa.gov/ems/info/index.htm

Funding Sources Available

- ◆ **Resource Conservation Grants**
 - Supports projects that promote recycling, solid waste and energy conservation
 - **Applications due Spring 2009**

- ◆ **Source Reduction Grants**
 - Supports projects that will provide an overall benefit to the environment by preventing pollutants at the source.
 - **Applications due Spring 2009**

- ◆ **Pollution Prevention Grants**
 - To build and support state pollution prevention approaches. Partnership with state agencies and other P2 assistance providers encouraged.
 - **Applications due Spring 2009**



EPA Resources and Funding

- ◆ US EPA Waste Reduction
www.epa.gov/osw/recycle.htm
- ◆ Waste Reduction Tips for Hotels and Casinos in Indian Country
www.epa.gov/tribalmsw/pdftxt/casinotips.pdf
- ◆ US EPA Composting
www.epa.gov/epaoswer/non-hw/muncpl/compost.htm
- ◆ Energy Star
www.energystar.gov
- ◆ Water Sense
www.epa.gov/watersense
- ◆ Federal Grants
www.grants.gov
- ◆ Funding Sources for Communities
<http://yosemite.epa.gov/R9/FSFC.nsf/fundingsources>
- ◆ Resource Conservation Grants
www.epa.gov/region09/waste/solid/funding.htm
- ◆ Pollution Prevention Grants
www.epa.gov/region09/waste/p2/grants.html
- ◆ USDA Solid Waste Management Grants
<http://www.usda.gov/rus/water/SWIMG.htm>

Other Resources

- ◆ California Green Lodging Program
www.ciwmb.ca.gov/epp/greenlodging
- ◆ CIWMB Recycling
www.ciwmb.ca.gov/recycle/
- ◆ Western Regional Pollution Prevention Network
www.wrppn.org
- ◆ Pollution Prevention (P2) Resource Exchange
www.p2rx.org
- ◆ Greenscapes
<http://www.epa.gov/greenscapes/>
- ◆ Electronic Product Environmental Assessment Tool (EPEAT)
www.epeat.net
- ◆ Green Seal
www.greenseal.org
- ◆ GREENGUARD Environmental Institute
www.greenguard.org
- ◆ Tribal Pollution Prevention
<http://www.tribalp2.org/index.php>
- ◆ Waste Management in Indian Country
<http://www.epa.gov/epawaste/wycd/tribal/index.htm>

Contacts

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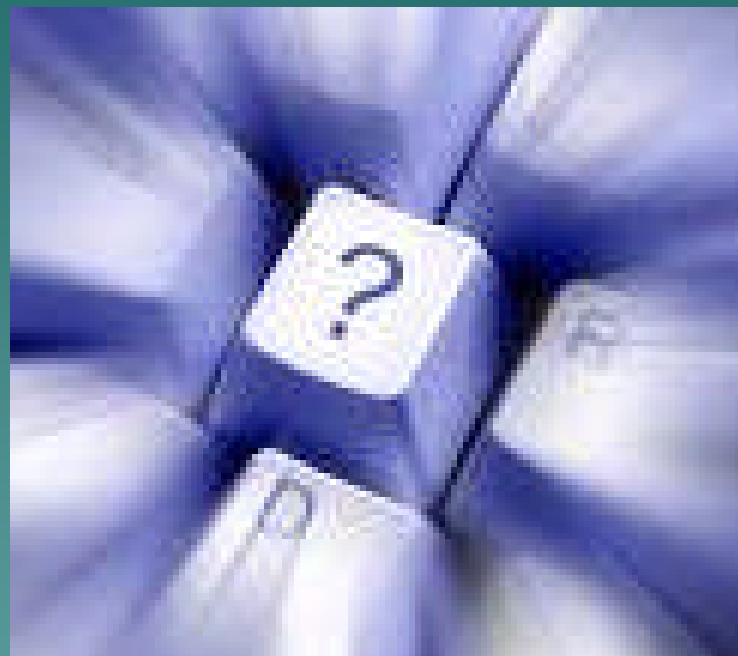
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Questions?



Thank You!



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