

US EPA ARCHIVE DOCUMENT



Greening the Chumash Casino Resort

Presented By:

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Santa Ynez Band of Chumash Indians

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Presentation Outline

- Benefits of Greening
- General Strategies
- Water Efficiency
- Energy Efficiency
- Green Cleaning
- Waste Management
- Transportation
- Renewable Energy



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Benefits of Greening

- \$\$\$
- Safer, Healthier Workplace
- Increased Productivity
- Increased Efficiency
- Positive PR
- Green Marketing
- Reduced Environmental Impacts
- Warm, Fuzzy Feeling



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General Greening Strategies

- Develop P2 Policies & Strategies
 - Operations & Decision-Making
 - Marketing & PR
- Calculate Environmental Footprint
 - Energy, Water, Waste Audits; EMS
 - Carbon Footprint
- Governmental P2
- Residential P2
- Identify & Utilize Tribal P2 Resources
 - www.tribalp2.org
 - Agencies and Tribes



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Water Efficiency

- Tribal WWTP
 - Parking Structure Stormwater Collection





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Water Efficiency

- Tribal WWTP
- Drip, Greywater Irrigation
- Landscaping: native, low-water plants
- Low Flow Toilets & Showerheads
- Waterless Urinals





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Energy Efficiency

- Variable Frequency Drives (VFDs)
 - Chilled Water Pumps (primary, secondary, return)
 - Hot Water Pumps / Boilers
 - Condenser Fans
 - Air Ventilation
 - Water Features Pumps





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Energy Efficiency

- Variable Frequency Drives (VFDs)
- Metering, Software, and Controls





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Energy Efficiency

- Variable Frequency Drives
- Metering, Software, and Controls
- Air Hand Dryers
 - \$109k annual savings (0.45 yr)





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Energy Efficiency

- Variable Frequency Drives
- Metering, Software, and Controls
- Air Hand Dryers
- Light Bulbs – CFLs and LEDs





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Energy Efficiency

- Variable Frequency Drives
- Metering, Software, and Controls
- Air Hand Dryers
- Light Bulbs – CFLs and LEDs
 - Slot Machines LED Retrofit:
 - \$2,261 annual savings (0.62 yr)





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Energy Efficiency

- Variable Frequency Drives
- Metering, Software, and Controls
- Air Hand Dryers
- Light Bulbs – CFLs and LEDs
- Building Shell
 - Grivit
 - Reflective Firestone EPDM liner





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Green Cleaning

- Green Seal Certified Cleaners





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Green Cleaning

- Green Seal Certified Cleaners
- Systematic Cleaning Chemical Management





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Green Cleaning

- Green Seal Certified Cleaners
- Systematic Cleaning Chemical Management
- Microfiber Mops
- Automated Escalator Cleaners
- Air Scrubber





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Green Cleaning

- Green Seal Certified Cleaners
- Systematic Cleaning Chemical Management
- Microfiber Mops
- Automated Escalator Cleaners
- Air Scrubber
- Battery Operated Cleaning Equipment



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Green Cleaning

- Green Seal Certified Cleaners
- Systematic Cleaning Chemical Management
- Microfiber Mops
- Automated Escalator Cleaners
- Air Scrubber
- Battery Operated Cleaning Equipment
- Chip Cleaning



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procare
Janitorial Supply
Funkhouser's Finest
CHIP CLEANER



Ready-To-Use
Deep Cleaning Formula
Extends Chip Life

WARNING:
Eye and skin irritant.
Keep out of reach of
children.
See back panel for additional
precautionary and practical
treatment statements.

NET CONTENTS: 1-GALLON (3.785 LITERS)





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Waste Management

- Waste Management & Recycling
 - Source and Offsite Separation and Recycling





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Waste Management

- Waste Management & Recycling
 - Source and Offsite Separation and Recycling
 - Composting





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Waste Management

- Waste Management & Recycling
 - Source and Offsite Separation and Recycling
 - Composting
 - Kitchen FOG Management





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Waste Management

- Waste Management & Recycling
- Green Purchasing
- Pallet / Packaging Reuse





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Waste Management

- Waste Management & Recycling
- Green Purchasing
- Pallet / Packaging Reuse
- Office Waste Management
 - Paperless Records
 - Recycled Content Paper
 - Double Sided Printing



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Waste Management

- Waste Management & Recycling
- Green Purchasing
- Pallet / Packaging Reuse
- Office Waste Management
- Uniform Recycling
- Bulk dispensing of toiletries





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Waste Management

- Waste Management & Recycling
- Green Purchasing
- Pallet / Packaging Reuse
- Office Waste Management
- Uniform Recycling
- Bulk dispensing of toiletries
- Furniture Donations
- In-House Furniture Upholstering





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Waste Management

- Waste Management & Recycling
- Green Purchasing
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- Office Waste Management
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- Bulk dispensing of toiletries
- Furniture Donations
- In-House Furniture Upholstering
- Sectional Carpeting



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Transportation

- Customer & Employee Shuttle Buses
 - Reduced approximately 800,000 car trips in 2007

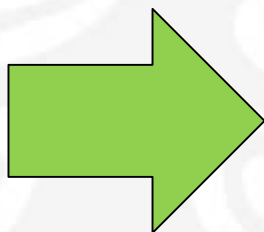




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Transportation

- Customer & Employee Shuttle Buses
- Biodiesel





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Renewable Energy

- Geothermal
- Wind
- Solar





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Renewable Energy

- Geothermal
- Wind
- Solar
 - Hotel Roof
 - \$48k (4.9 yr payback)
 - Self Parking
 - \$60k (6.9 yr payback)
 - Valet Parking
 - \$45k (6.9 yr payback)
 - Casino Roof
 - \$52k (9.0 yr payback)





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Thank You

Questions?

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