

BREAKING ICE IN A NEW SECTOR: P2 STRATEGIES FOR THE SKI INDUSTRY

Kirk Mills
Colorado Department of Public Health and Environment
Pollution Prevention Program
4300 Cherry Creek Drive South
Denver, Colorado 80246-1530
(303) 692-2977 kirk.mills@state.co.us

Michael Keefe/Caitlin Bowman
Tetra Tech EM Inc.
114 Linden Avenue
Pueblo West, Colorado 81007
(719) 547-7091
michael.keefe@ttemi.com
caitlin.bowman@ttemi.com

Judy Dorsey
The Brendle Group Inc.
2138 Sunstone Drive
Fort Collins, Colorado 80525
(970) 207-0058
jdorsey@brendlegroup.com



Agenda

- Project background and scope
 - Sustainable Slopes connections
- Using the Handbook
- Measuring environmental performance
- Case Studies
 - Snowmaking
 - Vehicle Maintenance
 - Lift Operations

Environmental Strategies for the Colorado Ski Industry

- Government industry/partnership
 - Concept through implementation
- Colorado setting, national benefits (>500 ski areas)
- EPA Region 8 and HQ funding
- Multi-media focus
 - Air emissions
 - Water use
 - Hazardous waste
 - Solid waste
 - Energy use



Project Details

- Year-round “on-mountain” operations
- 2.5 year timeline (start July 1999)
 - assessment
 - implementation
 - reporting
- Aspen Skiing Company and Arapahoe Basin
- Project Advisory Group
- Synergy with NSAA Environmental Charter
- Create a Handbook for Ski Areas



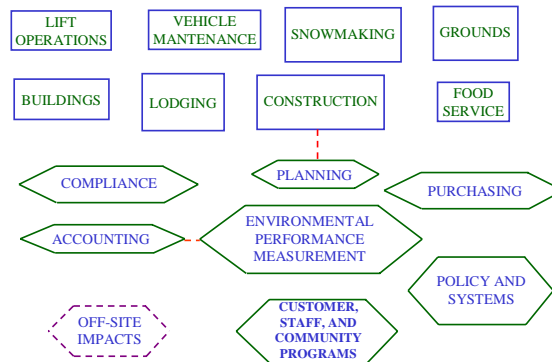
1999 Industry “Survey Says...”

- | | |
|---------------------------------|---------------------------------|
| 1. Water quality | 6. Water use |
| 2. Wildlife resource management | 7. Chemical use and containment |
| 3. Solid waste | 8. Transportation |
| 4. Energy use | 9. Development and construction |
| 5. Erosion control | 10. Snowmaking |

Decision making factors: financial and customer
50% have designated environmental staff



On-Mountain Operations



Underlying Project Concepts and Philosophy

- ‡ **Proactive versus Reactive**
 - Pollution Prevention (P2) and Energy Efficiency (E2)
- ‡ **Environmental management system (EMS)**
 - Environmental improvement must be continual
- ‡ **Measurements motivate and demonstrate...**
 - “Factual” understanding of environmental impacts
 - Cost/benefit analyses
 - Show progress and successes
- ‡ **Sustainability...and connections to Sustainable Slopes and other external programs**

