Sustainability Management Systems

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Sustainability

Meeting the needs of current generations without compromising the ability of future generations to meet their own needs.
(Brundtland Report, 1987)
Sustainable Development

... economic development, social development and environmental protection ... (UN World Summit on Sustainable Development, 1995)
Sustainability is Ethical Leadership

- Take a broad view of stakeholders, including future generations
- Take initiative to create collaboration and action
- Take a long-term view of success
UTA’s Sustainability Management System

- Balanced Mission, Goals
- ISO 14001 EMS
- Sustainable Design
- Community and Industry Involvement
UTA Mission

- Utah Transit Authority strengthens and connects communities thereby enabling individuals to pursue a fuller life with greater ease and convenience by leading through partnering, planning, and wise investment of physical, economic, and human resources.
UTA Goals

- Increase public transportation connections and mobility across the Wasatch region.
- Support and contribute to the long term economic, environmental and social sustainability of the region through balanced transportation that encourages wise land use.
- Achieve long term viability of public transportation services by maintaining cost, revenue and environmental performance effectiveness
- Execute the major projects in the long range regional plans plus additional strategic projects in an efficient and timely manner.
ISO 14001

- Management system standard
- Environmental risks
- Operational control
- Continuous improvement
Environmental Risks (Aspects)

1. Printing (Employee Exposure & Disposal)
2. Industrial Waste Water Treatment
3. Used Oil Management
4. Recycling Used Oil Filters
5. Fuel Consumption & Excessive Idling
6. Paint Related Waste: Aerosol Cans & Other Paint Products
7. Energy Conservation
8. Recycling
Sustainable Design

- Sustainable design guidelines for 2015 projects
- Applying LEED criteria to new light rail maintenance facility
- Land recycling
Community & Industry Involvement

- Clean Utah
- APTA
- CR (The Climate Registry)
- Envision Utah
- Blueprint Jordan River
- Salt Lake Solutions
- Sustainable Development
Air Quality
- CO$_2$: 3.037 million lb/yr
- NO$_x$: 91,125 lb/yr
- PM: 2484 lb/yr

Fuel: $675,000.00
Labor: $63,000.00

2005-2006
Vehicle Idling and Emissions Savings
Waste Water

Wastewater Final Discharge Improvement

Oil & Grease (mg/l)

Printing

- Saved $72,000 first year
- Saved over $200,000 third year
- Eliminated print shop, improved availability of schedules, saved printing cost, eliminated indoor air quality problems
Energy Conservation

Electrical Usage at Bus Divisions

- **Meadowbrook**: 4533840 Kwh (2006), 4285480 Kwh (2007)
- **Mt. Ogden**: 956400 Kwh (2006), 904000 Kwh (2007)
- **Central**: 1294000 Kwh (2006), 1261620 Kwh (2007)
- **North-South TRAX**: 1136178 Kwh (2006), 1007028 Kwh (2007)

% Reduction:
- Meadowbrook: 5.48%
- Mt. Ogden: 5.48%
- Timpanogos: 3.45%
- Central: 2.50%
- Riverside: -5.57%
- North-South TRAX: 11.37%

CO₂ Tons Reduced:
- Meadowbrook: 167 tons
- Mt. Ogden: 35 tons
- Timpanogos: 18 tons
- Central: 22 tons
- Riverside: -28 tons
- North-South TRAX: 87 tons

Cost savings:
- Meadowbrook: $19,868.00
- Mt. Ogden: $4,192.00
- Timpanogos: $2,153.60
- Central: $2,590.40
- Riverside: -$3,384.00
- North-South TRAX: $10,332.00
What UTA Has Accomplished

Brownfield Site Clean-Up

Before

Ballpark Station

Rail Services Center

Pallas Yard

After
Sustainability is Good Transit Management

• Take a broad view of stakeholders, including future generations
• Take initiative to create collaboration and action
• Take a long-term view of success