

Welcome to the Alpine's Waste Diversion  
"Campus"



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A place where.....

Waste "checks-in" but.....

Doesn't Check Out as MSW!!



**Goal:**

To sort materials from the MSW stream as valuable scrap

Institute of Scrap Recycling  
Industries (ISRI)

- 2011 Study on United States scrap industry
  - Industry supports more than 450,000 American jobs
  - Generates over 10.3 billion in revenue for Federal, State and Local Governments
- [ISRI.org](http://ISRI.org)

## Concepts

- Conceptualize the future when building a waste handling facility
- Mentioned Campus
- Future Technologies
- Alpine's strategic vision
  - Our people are Materials Management Specialists
  - Compensation for diversion
  - We work with natural resources

## Expand on "Campus" Vision and Synergies

- Alpine started a single-stream (Altogether) recycling facility
- Then added a stand alone waste transfer site
- Then compost collection at transfer site
- Then connected the two and added a commercial separation line
  - The key is that they make financial sense

## Expand on Making Financial Sense

- For example purposes
  - Disposal Rate of \$20 per ton
  - Cost to process
    - 13 different conveyors
    - 30 plus motors
    - Over 50 employees
    - Forklifts – 4
    - Loaders – 5
- Not included is the cost to pickup material

## Altogether Site



## Waste Transfer Site



## Commercial System



## What about the concept of "Waste not checking out – as MSW?"

- Since joining the recycling facility with the waste transfer site
  - Pulling metals out of waste stream
  - Pulling wood out of waste stream for composting
  - Cardboard rich loads go to new commercial system

## Metals and Wood



## Ultimate Goal

- Take this:



## Turn it into this:



## Send it out on this:



## Conceptually Speaking

- Landfill Mining
  - Transfer Station Mining
  - Plastics
    - Fuels
  - Organics
    - Soils
    - Livestock feed
- 20% Diversion Rate in Colorado -- Significant Opportunity
- Landfill Rates

## Landfill and Transfer Station Diversion – “Old School” Management Mentalities

### Based on past experiences

- Landfill managers frequently receive incentive compensation based on revenues coming into site
  - This is at odds with diversion mentality
- Alpine looking at incentive programs for diversion at the landfill -- baselines

## What does this campus look like?

**Simply a place where MSW checks in – but checks out as a valuable commodity**

## What does the “Alpine Campus of Higher Diversion” look like?

- State-of-the-Art Altogether (Single-Stream) Processing Equipment ✓
- State-of-the-Art Commercial Altogether Processing Equipment ✓
- Compost Drop-off and Processing ✓
- Pull Metals from Waste Stream ✓
- Pull Wood from Waste Stream ✓
- Pull Cardboard from Waste Stream ✓
- Hands-on Educational Center
- MSW Processing Equipment

## Recycling Industry Updates

- Equipment is getting better
  - Costly
  - Evolving
- Markets are currently good
  - Guarded
  - Unpredictable

## Colorado Recycling Opportunities

- RREO (Recycling Resources Economic Opportunity Grants)
- Recycling Rebates
  - Glass
  - Drop-Off Sites

## What does the future hold?

- Education
- Manufacturer's Responsibility
- Less Trash

## Questions



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