

District Update

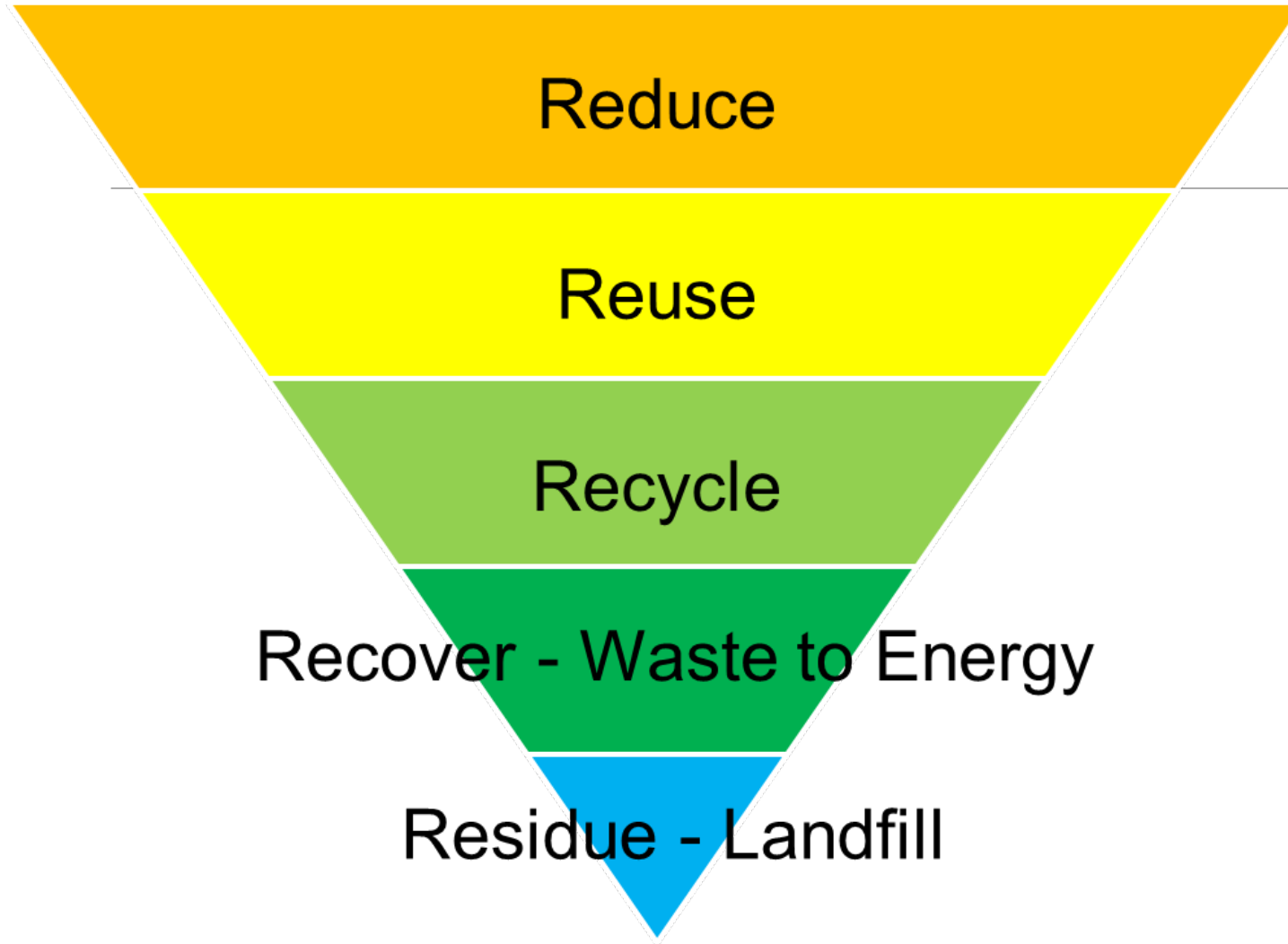
December 15, 2022 Kaysville City
Nathan Rich, Executive Director

WASATCH
INTEGRATED
waste management district

- District Overview
- Integrated Waste Management System
- Status of System
- 20 Year Integrated Waste Management Plan

District Overview

- ✓ Special Service District
- ✓ Owned by Davis and Morgan Counties and 15 Cities
- ✓ 337,000 tons of Municipal Solid Waste (MSW) Annually
- ✓ Serve 328,000 Residents
- ✓ 73 Full Time Employees
- ✓ 19 Member Administrative Control Board



Integrated Waste Management Hierarchy

Integrated Solid Waste Management

- Waste is local
- Solutions are local
- No one size fits all
- Demographics, Geography, Culture, Climate, Laws, Regulations, Mandates, Industry, Politics, Physics



Mission Statement - Bylaws

1-1-103. Mission Statement.

Provide sustainable, cost-effective, and environmentally sound solid waste management.

Guiding Principles

Maintain fiscal integrity with minimal financial risk. Consider long term effects and life cycle costs. Maximize the value of assets.

Recognize waste as a resource through reuse, reduction, recycling, and the production of fuels and energy, when financially viable. Manage waste destined for disposal with state-of-the-art landfill resources, operations, and long-term care.

Make well informed decisions based upon sound scientific and business judgment and ethical business practices.

Aggressively pursue best available demonstrated technologies that minimize the volume and toxicity of wastes and protect the environment for future generations.

Promote public education and awareness of effective and efficient municipal solid waste management practices.

Davis Energy Recovery Facility

Closed May 2017

- 30 years of operation, 1987 to 2017
- 3,440,810 tons MSW processed
- 12.8 billion pounds of renewable steam shipped
- 30,000 tons of steel recycled
- Accepted the challenge of closing the Energy Recovery Facility as an opportunity to continue to do more with our waste



Davis Material Recovery and Transfer Facility



Davis Landfill



Green Waste Recycling and Composting Facility



Citizen Waste and Recycling Drop-Off



HHW and Electronic Waste



Landfill Thrift Store

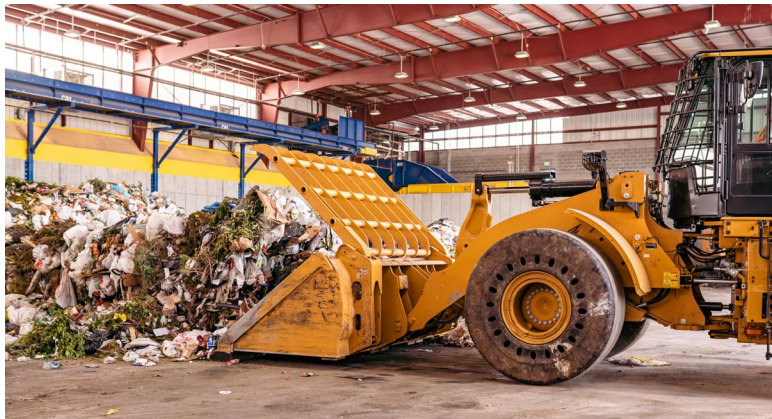


Landfill Gas to Energy

Status of System

Davis Material Recovery and Transfer Facility

- MSW transfer system working well
 - 116,192 tons transferred to Tekoi Landfill
- Material Recovery Facility (MRF) working as designed
 - 4,725 tons engineered fuel shipped
 - 2,741 tons recyclables sold
 - Organics diversion not viable without additional investment and cost



MSW Transfer

- Currently transferring all residential MSW – 125k tpy
- Tekoi Landfill in Skull Valley
- \$32 per ton transportation and disposal

Recyclables Recovery



- Cardboard – OCC
- Steel Cans
- Aluminum Cans – UBC
- Plastic #1 – PET
- Plastic #2 - HDPE



Engineered Fuel

- Non-recyclable paper and plastic
- Cement kiln at Devil's Slide
- Working well
- Planning for additional demand



Organics Fraction

- 40 % of residential MSW
- Potential feed stock for anaerobic digestion – RNG
- Not acceptable as is
- Jacobs Engineering Study
 - Additional equipment
 - Additional processing
 - Additional fee

Status of System Davis Landfill Complex

- 18 years capacity at current diversion rate
- System cost increases substantially when landfill closes
- Customer services provided at the landfill complex are highly regarded
- When the landfill reaches capacity
 - Maintain customer service facilities
 - Need for additional transfer station

Integrated Waste Management Plan

- Opinion survey of residents
 - 94% rated services as excellent or good
 - 62% of households willing to pay \$5 for recycling
- How long do we want the Davis Landfill to last?
- How do we best use the MRF to adapt to changing and developing opportunities?
- What are the long term economic and environmental consequences?

Integrated Waste Management Plan Recommendations

- Stop Processing MSW – Cost Saving Measure
- Implement Robust Single Stream Recycling
 - Residential
 - Commercial
- Provide Education and Outreach
- Construction and Demolition Debris Recycling
- Expand Curbside Green Waste Collection
- Transfer More Waste

City	1 st Can	Green Waste Can Tons	Commingled Recycling	Total Refuse	Tons Per Household	Recycling Diversion	Green Waste Diversion	Combined Diversion Rate
Centerville	4,341	709	645	7,107	1.6	9%	10%	19%
Clearfield	6,155	-	481	9,149	1.5	5%	0	5%
Clinton	6,787	-	-	10,962	1.6	0	0	0
Farmington	6,582	-	984	9,875	1.5	10%	0	10%
Fruit Heights	1,732	419	-	2,836	1.6	0	15%	15%
Kaysville	8,835	2,301	1,183	17,326	2.0	7%	13%	20%
Layton	19,344	-	915	32,150	1.7	3%	0	3%
Morgan City	1,332	-	-	-	-	-	-	-
Morgan County	2,355	-	-	4,777	2	0	0	0
North Salt Lake	4,939	-	679	6,913	1.4	10%	0	10%
South Weber	2,125	-	-	3,406	1.6	0	0	0
Sunset	1,587	93	70	2,254	1.4	3%	4%	7%
Syracuse	9,373	1,248	16	15,226	1.6	0	8%	8%
West Bountiful	1,795	-	233	3,133	1.7	7%	0	7%
West Point	3,432	753	316	5,327	1.6	6%	14%	20%
Woods Cross	2,961	697	474	4,788	1.6	10%	15%	24%
Total:	83,675	6,219	5,996	135,230	1.6	4%	5%	9%

Integrated Waste Management Plan Implementation

- How does the District Incentivize Curbside Recycling?
 - Consider Franchising Collection
 - Pay for Recycling Bins
 - Ordinance Requiring Recycling Program
 - Set Differential Rates



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Executive Director

[HTTPS://WWW.WASATCHINTEGRATED.ORG/NEWS/](https://www.wasatchintegrated.org/news/)