

# Santa Barbara County Resource Recovery Project

Multi-Jurisdictional Planning



# Santa Barbara County

- \* Background
- \* History of Project
- \* Project Goals and Public Outreach
- \* Resource Recovery Project
- \* Continued Dialog

# Background



## County Department of Public Works

- \* Manages Waste under...  
Resource Recovery &  
Waste Management  
Division

# Background

## The County Department of Public Works

- \* Owns & operates a regional landfill (Tajiguas Landfill)
- \* Manages 3 regional transfer stations
- \* Manages all residential recycling programs
- \* 90 FT staff members



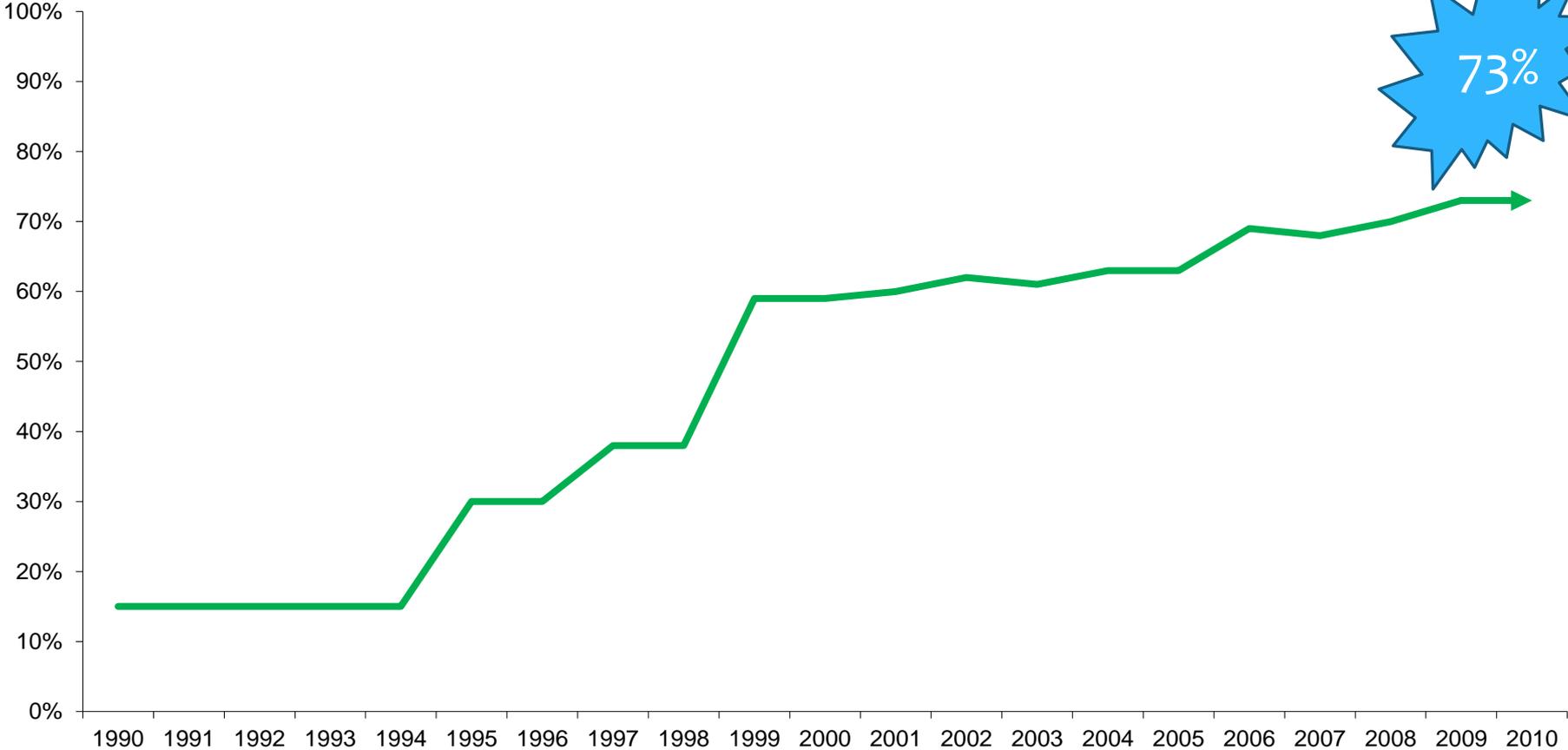
# Background

The County Department of Public Works also provides

- \* Greenwaste processing
- \* Household Hazardous Waste collection
- \* Pharmaceuticals and sharps collection
- \* Mandatory commercial recycling
- \* C&D Recycling requirements



# Diversion Rate



# Project Background



\* 4 cities and southern unincorporated county

\* About 200,000 tons

\* Southern portion of Santa Barbara County

\* “Tajiguas Wasteshed”



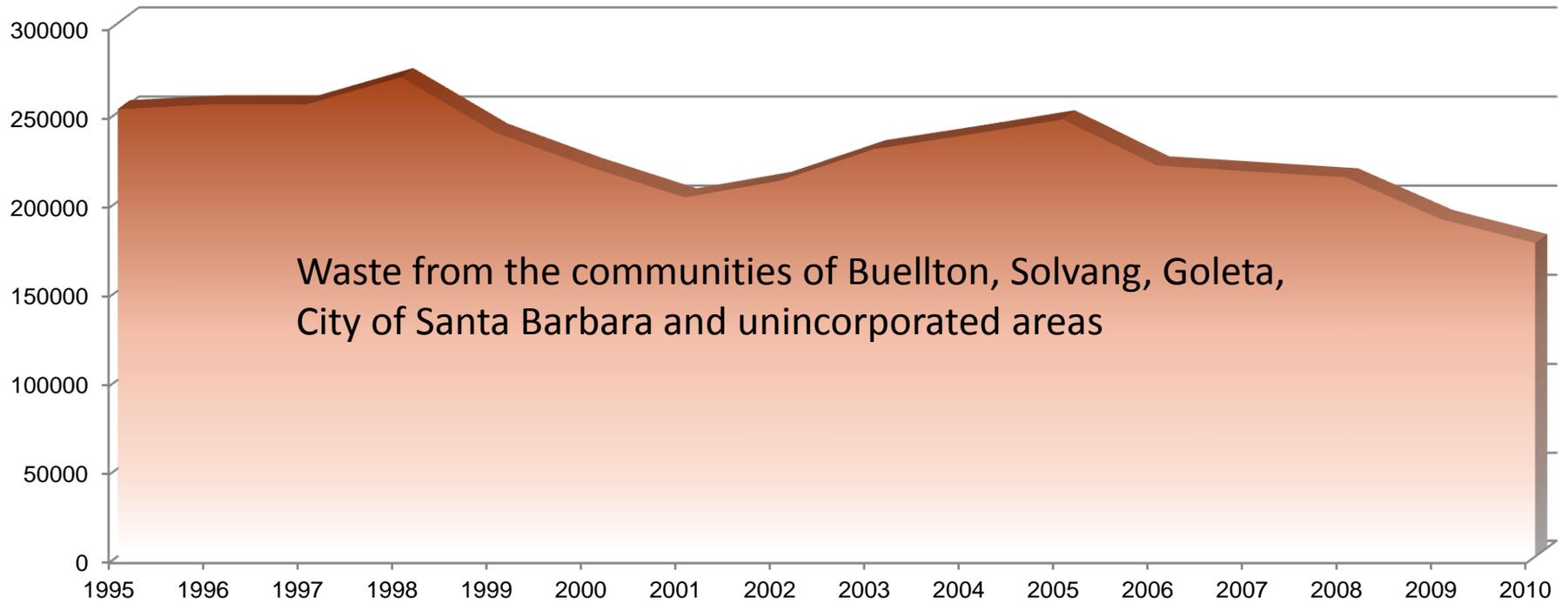
# Project History

- \* 1998 – Community Advisory Council
  - \* Tasked with identifying an alternative to the proposed Tajiguas Landfill expansion
  - \* Identified a campus of infrastructure to manage MSW
- \* 2000 – Multi-Jurisdictional Task Group formed
  - \* Elected Official representation
  - \* Long range solid waste management planning
  - \* Identified Conversion Technology Project, including MRF with Anaerobic Diversion for south SB Co.

# Project History

- \* 2002- Tajiguas Landfill Expansion Approved
  - \* but also directed staff to:
    - \* research alternatives to landfilling
    - \* increase reuse and recycling of materials
- \* 2007 - City of SB and County elected officials resumed project development
  - \* Strong Political Support
  - \* Need to engage local community
  - \* Partner with other Cities

# Tajiguas Landfill Disposal



# Tons Disposed by Jurisdiction

* Santa Barbara City	45%
* Santa Barbara County	35%
* Goleta	14%
* Buellton	3%
* Solvang	3%

# What material is buried?

Composition of trash has changed

Left with more materials that can not be recycled

	1997	2008	% Difference
Recyclables	32%	25%	-7%
Organics	41%	29%	-12%
Trash	27%	46%	+19%
Total	100%	100%	

# Project Objectives

(Original goals contained in RFP)

- \* Pre-processing or converting MSW into beneficial products
- \* Reduce environmental impacts of landfilling MSW
- \* Cost-competitive tipping fee
- \* Production of clean green energy
- \* Provide a humane work environment
- \* Result in a long-term waste management plan
- \* *Emphasis on not affecting existing or planned recycling programs but management of MSW being landfilled*

# Helps the County Achieve California's Ambitious Environmental Goals

- \* Potential to raise region's AB 939 diversion level to 80%+  
(meets AB 341 goal of 75% in 2020)
- \* Ability to eliminate greenhouse gas equivalent to 22,000  
vehicles/year  
(AB 32 – greenhouse gas reductions by 2020)
- \* Ability to generate 1 megawatt of renewable energy  
(SB20 – 33% renewable energy by 2020)

# Public Outreach

- \* Over 100 presentations to public and City Councils
- \* Well received and generally supported by broad range of local groups
- \* Environmental Review is just beginning



# Common Goals

- \* ... Always exist
- \* History of regional waste management
- \* Smaller Communities can band together to form regional solutions



# Common Goals

- \* Adds Value to community
- \* Local government is a reflection of community values
- \* Need for a more formal relationships



# Resource Recovery Project



Comprised of 3 facilities proposed:

1. State of the art material recovery facility (sorts MSW for sale or further processing)
2. Anaerobic digester to process organics, extract greenhouse gases and convert to energy
3. Landfill remainder (less than 50%) thus extending the life of the landfill

# Resource Recovery Project

- \* Balancing risk and reward
  - \* Business
  - \* Regulatory
- \* Private & Public Partnership
  - \* Privately Funded
  - \* DBOOT
  - \* JPA



# Resource Recovery Project

- \* **Design**
- \* **Build**
- \* **Own**
- \* **Operate**
- \* **Transfer**



# Resource Recovery Project

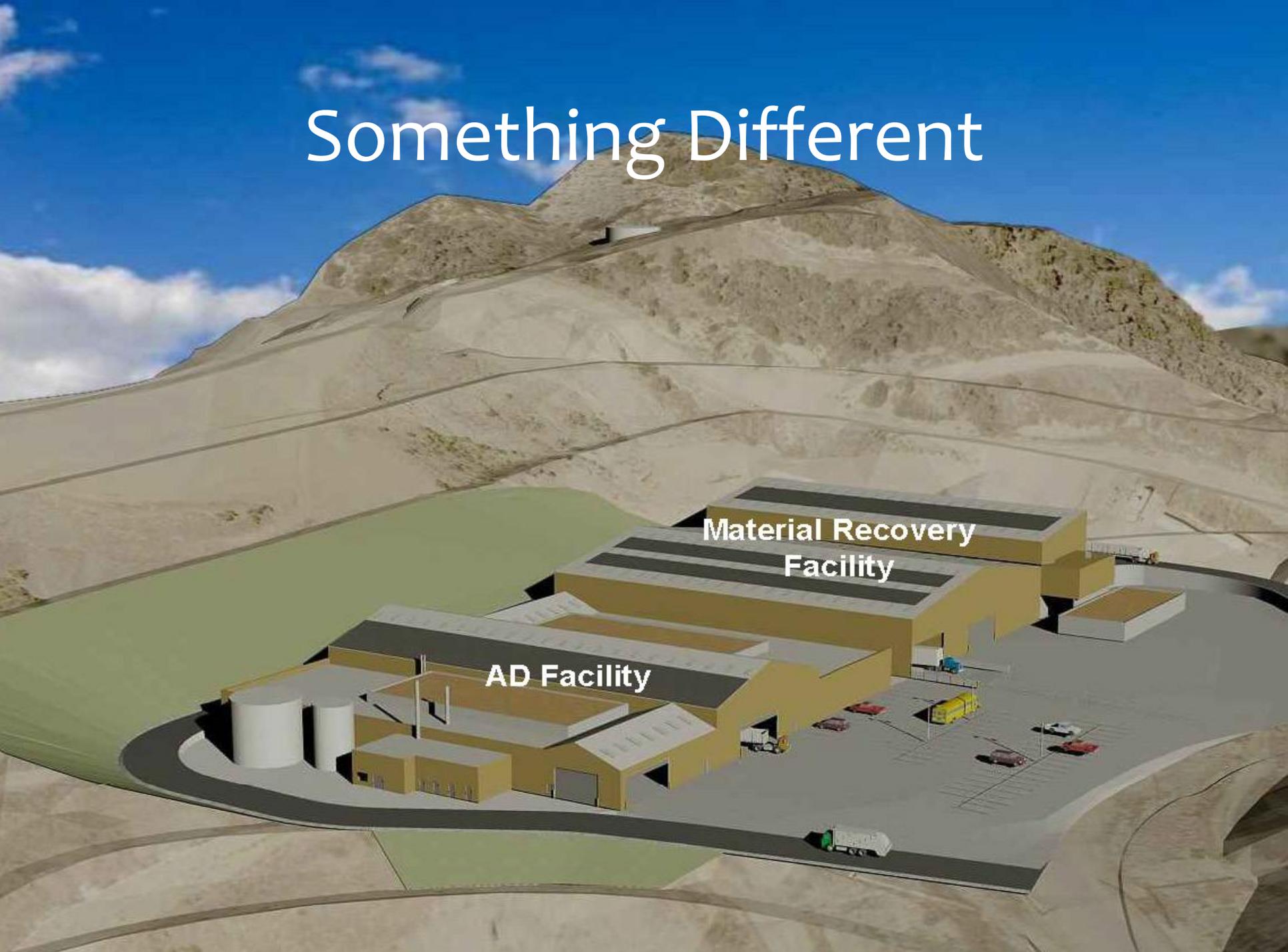
- \* Joint Powers Authority
  - \* Commitment of waste through term
  - \* Fair Representation
- \* Council Resolution
- \* Term Sheet
- \* CEQA Funding Agreement
- \* Creation of JPA



# Resource Recovery Project Benefits

- \* Regional Solution
- \* 20-year management plan
- \* Cost-effective compared to alternatives
- \* Supports regional recycling programs
- \* Job Creation
- \* Helps to meet state mandates
  - \* Over 80% AB 939 diversion rate
  - \* Elimination of greenhouse gas equivalent to 22,000 vehicles per year
  - \* Generation of 1 megawatt of renewable energy per year
- \* Recommendation has broad-based community support

# Something Different



# Mustang Perspective

- \* Project Description
- \* RFP process & Timeline
- \* Project costs/tip fees
- \* 20 year feedstock commitment essential
- \* Local experience/knowledge also key

# Tajiguas Resource Recovery Project

- \* MRF
  - \* Mixed MSW line – 800 TPD (250,000 TPY)
  - \* Single Stream line – 130 TPD (40,000 TPY)
- \* AD Facility
  - \* 200 TPD (75,000 TPY) MSW & SS Organics
- \* 6 acre site (140,000 SF of structures)
- \* 4-6 acres additional compost finishing area on landfill area

# MRF Equipment



# AD Facility



# RFP Process & Timeline

- \* 300+ page RFP
- \* 1,250 page submittal + 600 pages subsequent
- \* RFP issued October 2009
- \* Submittal June 2010
- \* Announcement July 2011
- \* Commenced CEQA April 2012 (est. 18+ mos)
- \* Construction 2014
- \* Operational 2016

# Project Costs – Tip Fees

- \* Estimated Tip Fees \$60-77 per ton
- \* Variables: waste streams, tonnage, CSSR &/or SSOW
- \* Tonnage Reset(s)
- \* Unique site adjacent to and on landfill
- \* CEQA/JPA Considerations/Risks/Timing
- \* Unified Tip Fee best (MSW, CSSR, SSOW)

# Key Elements

- \* 200,000 TPY MSW
- \* 20 year feedstock commitment
- \* Existing tip fee market \$70/ton
- \* Clearly identified project goals/objectives
- \* Single point of contact best
- \* Due Diligence limits/schedule
- \* Flexible project design/developer, local team

THANK YOU

QUESTIONS?



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