

**Organics Roadmap +  
Commercial  
Recycling/AB 341**

**Howard Levenson, CalRecycle**

**January 23, 2012**

**San Gabriel Valley COG Forum**

# Overview of Presentation

- **Organics Issues**
- **AB 341**
  - **Commercial Recycling**
  - **75%**

# Organics in the Waste Stream

- ◆ 32 million tons disposed 2009
- ◆ Carbon-based: 21 million tons
- ◆ Compostable: 6 million tons
  - Food waste
- ◆ Wood waste: 5 million tons



# Organics Goals

- ◆ **“Old CIWMB” Informal Goal**
  - **Reduce organics disposal by 50% by 2020**
- ◆ **AB 341 – 75% Statewide Requirement**
  - **Organics one of keys**
- ◆ **Key Issues for Organics**
  - **Siting & Capacity**
    - ◆ **Puente Hills Closure**
  - **Economic Incentives**
  - **Regulatory and Permitting**
  - **Research, Standards, Technical Evaluations**

# Organics Diversion Capacity

- ◆ 2008 - 9.3 million tons processed by >200 facilities
  - **Static – same as in 2005**
- ◆ Biomass Facilities - 5 million bone dry tons/yr
- ◆ To meet 50% organics goal and 75% statewide goal - 10 million more tons?

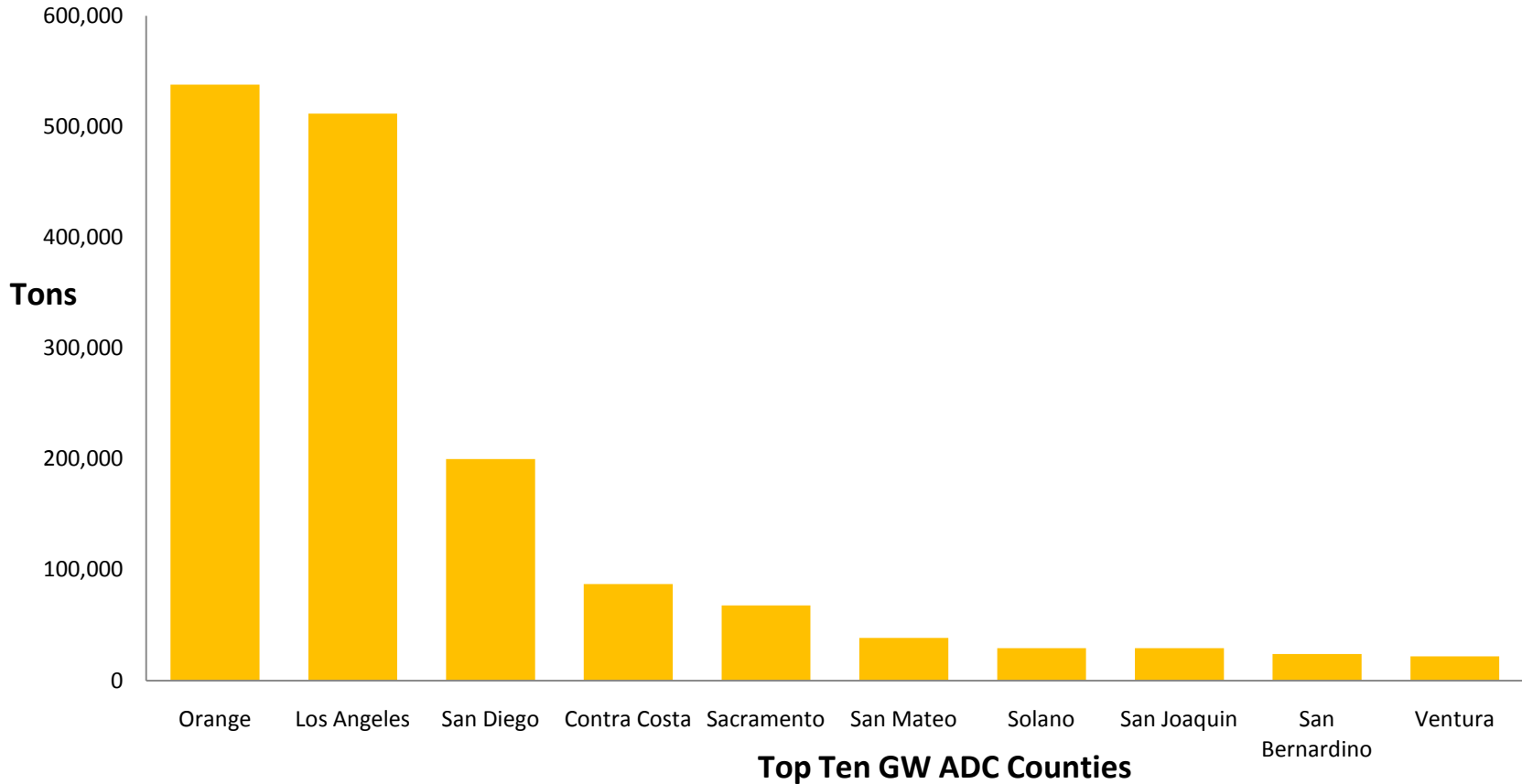


# Puente Hills Closure

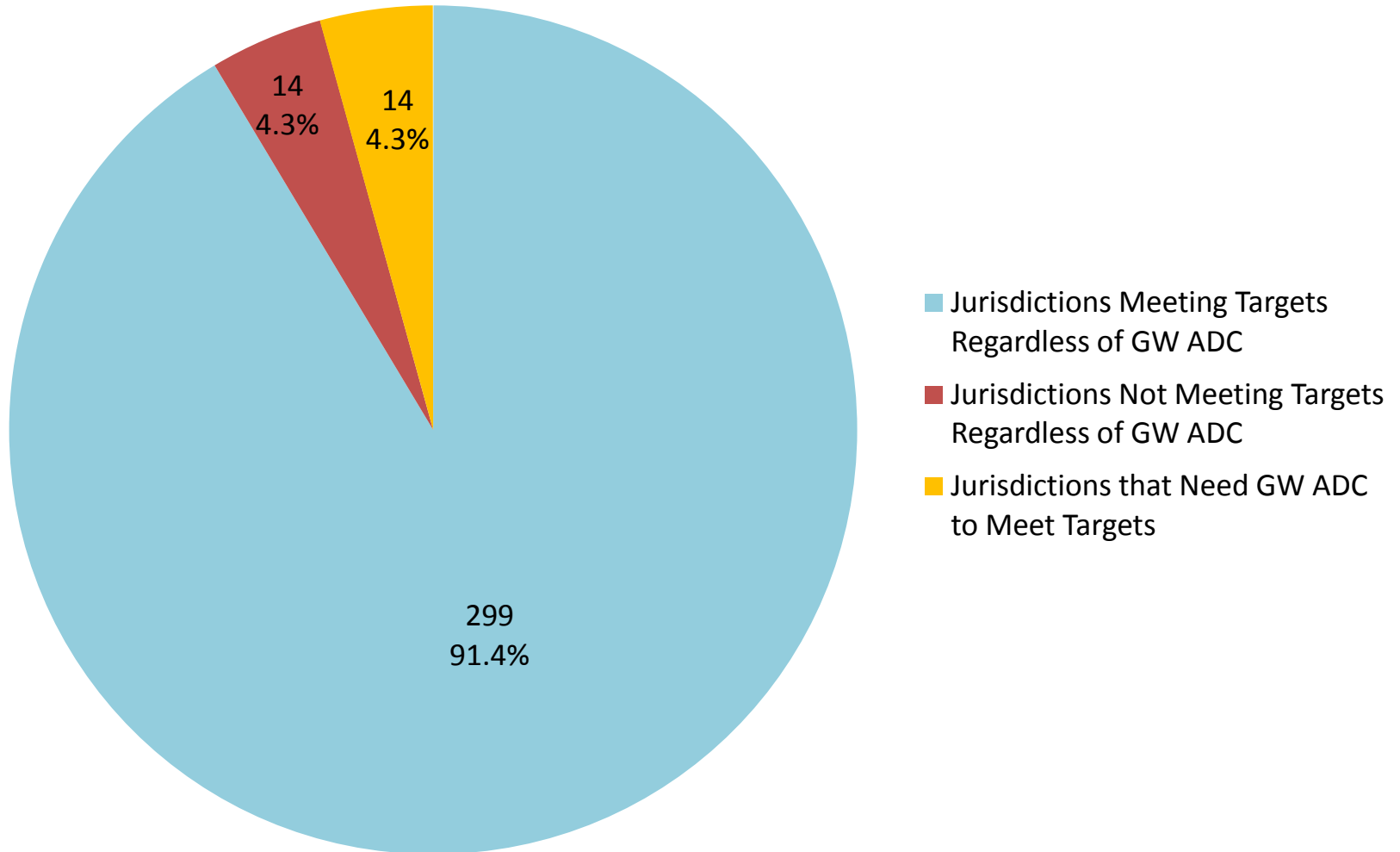
- ◆ LACSD presentation at March 2011 LTF
  - Almost 0.5 million tons/year green material ADC
  - San Gabriel Valley Js >85%, would incur biggest impact
- ◆ Some transfer stations/MRFs not at full daily tonnage – about 30,000 tons/day
  - Implies some material could be transferred to end uses outside LA County?
  - Composting – Westlake, CRRR (??), Inland Empire, etc.
  - Ag land app, erosion control, ADC at other landfills
  - Chip and grind at Puente
  - CT projects?

# ALTERNATIVE DAILY COVER

Jurisdictions in 10 Counties contribute 93% of all green waste used as ADC in California in 2010 -- nearly 2/3 from Orange and Los Angeles Counties

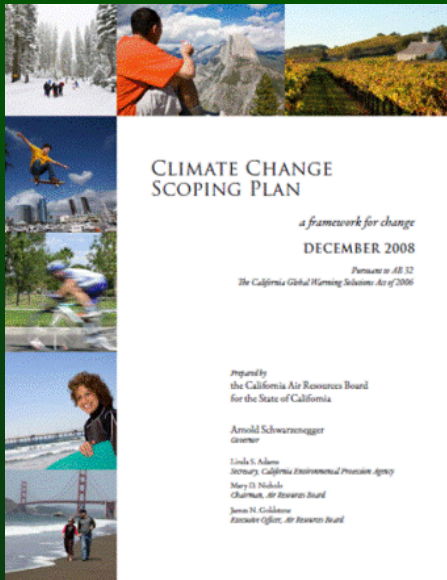


**Of 327 Jurisdictions using GW ADC in 2010, 299 would meet Disposal Reduction targets if GW ADC counted as disposal. 14 would not meet targets regardless of how GW ADC is counted, and 14 need GW ADC to meet their Targets.**



# Indirect Economic Incentives

- ◆ AB 32
- ◆ Low Carbon Fuel Standard
- ◆ Renewables Portfolio Standard
- ◆ Water Use Efficiency



Source: CARB, Low Carbon Fuel Standard

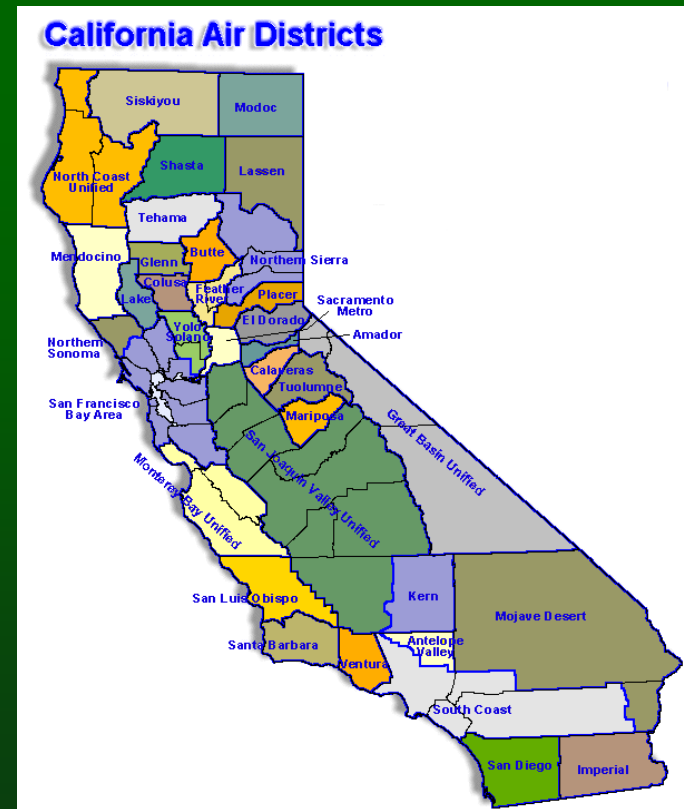
# Direct Economic Incentives

- ◆ RMDZ Loans
- ◆ CPCFA funding
- ◆ AB 118 Alternative and Renewable Fuels grants
- ◆ [www.calrecycle.ca.gov/business/incentives.htm](http://www.calrecycle.ca.gov/business/incentives.htm)



# Regulatory/Permitting Issues

- ◆ Air District Composting Rules
- ◆ Federal Clean Air Act New Source Review
- ◆ CDFA labeling requirements
- ◆ SWRCB WDRs for composting facilities



# Regulatory/Permitting (cont.)

- ◆ CalRecycle regulations reviews
  - Green waste, food waste, AD, land app, etc.
- ◆ Mandatory commercial recycling regulations
- ◆ Conversion technology policy debate



Source: Paso Robles Waste Disposal, Inc.

# Research, Product Standards, Technical Evaluations

- ◆ Reactivity of green waste VOCs
- ◆ AD Program EIR
- ◆ CalTrans specs and workshops
- ◆ Compost BMPs & benefits
- ◆ Landfill-based AD pilot
- ◆ Compost cover and methane reduction at landfills
- ◆ Compost production N<sub>2</sub>O



# The Future

- ◆ How do we expand processing infrastructure given these issues?
- ◆ Combination of traditional and emerging technologies?



East Bay Municipal Utility District

# What Else Might Be Needed/Discussed?

- ◆ Changes in policies re: green waste and ADC at landfills, CT projects?
- ◆ GHG emission reduction protocols?
- ◆ Cap and Trade revenues or increase in tipping fee?
  - For loans, grants, or “incentive” payments?
- ◆ All part of “75%” discussion



**For More Information on Organics:**

**<http://www.calrecycle.ca.gov/Organics>**

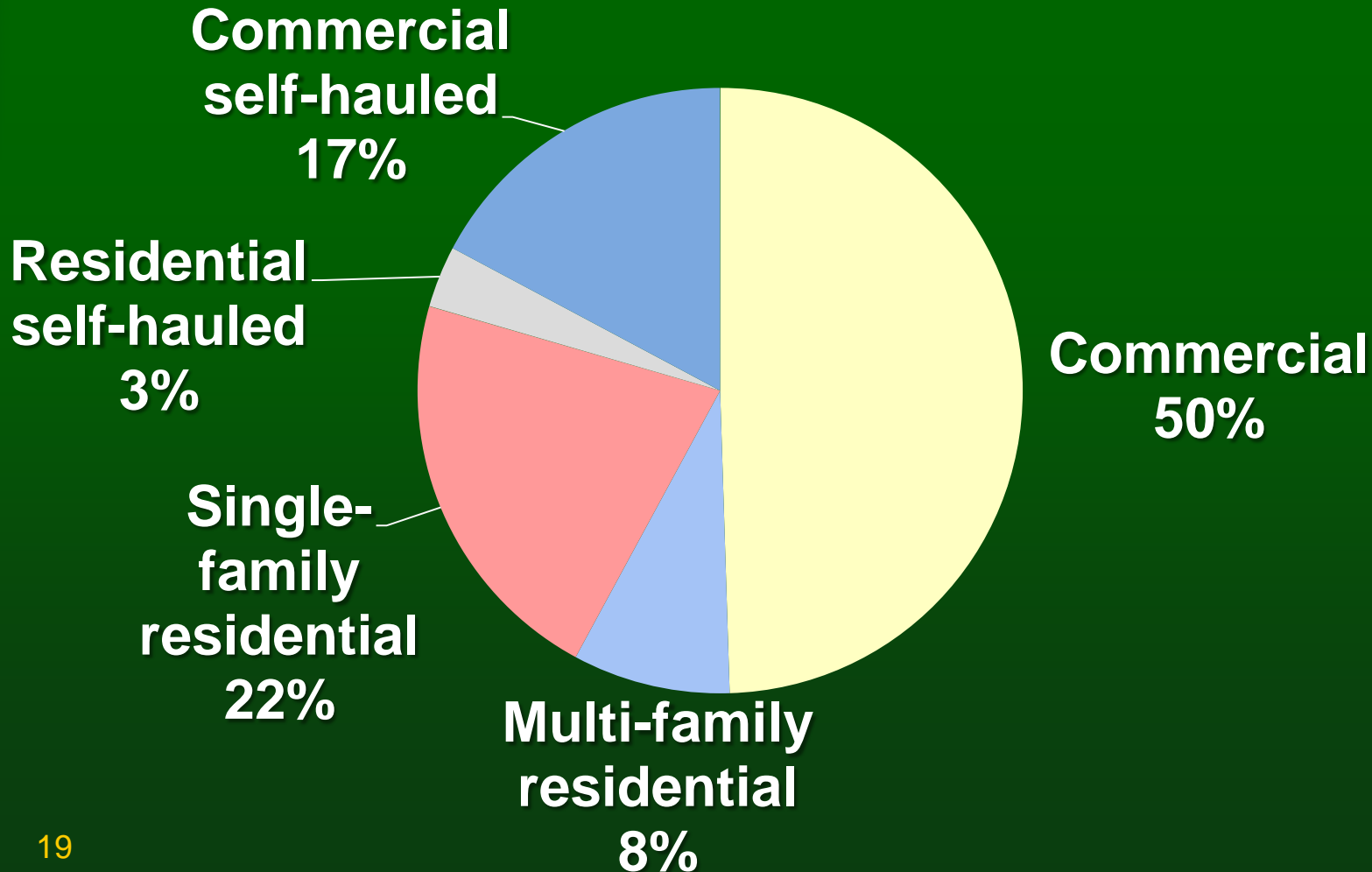
# Commercial Recycling Regulation Requirements



# Goals

- ◆ **AB 341 Requirements**
  - **75%**
  - **Commercial recycling**
- ◆ **AB 32 Scoping Plan: Reduction of 5 million metric tons CO<sub>2</sub>E via commercial recycling**
  - **27 million tons disposed by commercial sector**
  - **Goal reached by recycling 3 MT more by 2020**
- ◆ **Create jobs and expand recycling manufacturing in California**

# Statewide Disposal, 2008



# Regulatory Approach

- ◆ **Adopted January 17, 2012**
  - **Effective July 1**
- ◆ **Flexible for jurisdictions, businesses**
  - **Does not specify materials to be diverted**
  - **Allows jurisdictions to design program**
  - **Allows businesses various ways to recycle**
- ◆ **Builds on existing AB 939 processes**

# Regulatory Requirements

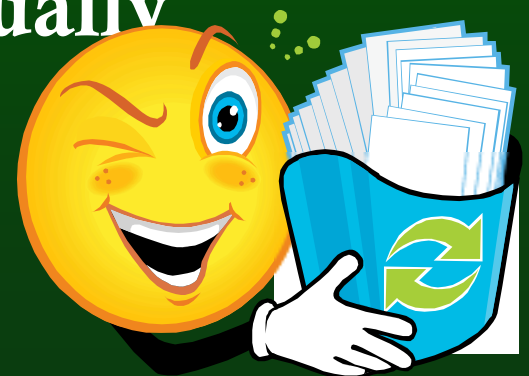
- ◆ **Businesses and public entities disposing 4 cy/week or more of solid waste, and multifamily units of 5 or more -- required to recycle using any one or combination of:**
  - Using franchise hauler(s),**
  - Arranging for pick-up,**
  - Self-hauling, and/or**
  - Using mixed waste processing**



**Recycling is Good Business!**

# Regulatory Requirements

- ◆ **Jurisdictions must implement commercial recycling program with:**
  - **Education/Outreach**—informing businesses of state requirement and how to recycle in area
  - **Monitoring**—identifying businesses that aren't recycling and informing them of requirement
- ◆ **Jurisdictions must report annually**
  - **Electronic Annual Report**
  - **Starting with 2012 Report**



# Regulatory Requirements

- For jurisdictions on 2-year cycle, CalRecycle evaluation begins 2014, then every 2 years
- For jurisdictions on 4-year cycle, evaluation begins in 2016 and continues every 4 years.
- CalRecycle will measure reductions statewide
  - ARB Recycling and Composting Emission Reduction Factors (RERF and CERF)

# Regulatory Issues

- **Mixed waste processing comparable to source separation**
- **Transformation**
- **Franchise agreements and right to sell/donate**

# Flexibility! Flexibility!



- ◆ Js have flexibility to conduct education, outreach, monitoring that meets their needs:
  - Can use existing programs, communication
  - Can do ordinance, policy or enforcement
    - ◆ <http://www.ca-ilg.org/commercialrecycling>

## Phasing in Education/Outreach/Monitoring

- ◆ E.g., in 1<sup>st</sup> year educate and monitor multifamily complexes 16 units or greater
  - **By law these have on-site managers**
- ◆ For business owners located in other areas--
  - **Send letter informing owner of requirement**
- ◆ Target % of largest businesses each year



# Education/Outreach: Electronic

- ◆ One or more electronic media activities that could be used to inform businesses:
  - Send out electronic notifications
  - Utilize your existing social media
  - Coordinate with local business groups, e.g., Chamber, Apartment Association, to post info on their website or distribute info to members
  - Place information on the website



## Education/Outreach: Print

- ◆ Utilize existing brochures, letters, newsletters
  - Add information about state requirement and how to recycle in the jurisdiction
  - Utilize ILG's model brochure and cover letter
- ◆ Recommend sending info in print form annually:
  - Can be phased in



# Education/Outreach: Direct Contact

- ◆ Jurisdictions may want to use direct contact with businesses to inform them of the state requirement:
  - Community groups
  - Haulers
  - Jurisdiction staff
- ◆ Present at business forums, provide information during waste assessments

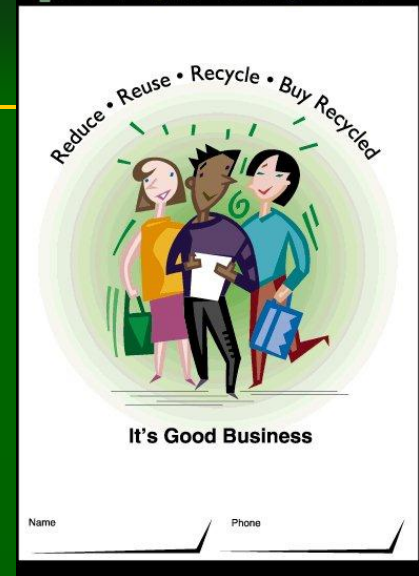




# Monitoring

- ◆ Identifying businesses that are not recycling, and notifying businesses that are not in compliance.
- ◆ Flexibility to implement monitoring that fits existing programs and resources:
  - Letters, site visits, phone calls, etc.
  - Choose who conducts these activities - staff, hauler, etc.
  - Phase in monitoring over time depending on how many businesses are in the jurisdiction.

# Monitoring



- ◆ Identify businesses that are not recycling via hauler(s), jurisdiction staff
  - Either jurisdiction or hauler would send notice to the business
  - Either hauler or jurisdiction could follow-up in person or with phone call
    - ◆ purpose of follow-up would be to assist business in how it can recycle in the local jurisdiction.

## **Resources**

- 1. Commercial Recycling Cost Calculator**
- 2. FAQs on CalRecycle website**
- 3. ARB Emission Reduction Factors**
- 4. Institute for Local Government**
- 5. Upcoming workshops**

**For More Information on  
Commercial Recycling:**

**[http://www.calrecycle.ca.gov/Climate/  
Recycling/default.htm](http://www.calrecycle.ca.gov/Climate/Recycling/default.htm)**

## AB 341 and 75%

- ◆ **Statewide goal of 75%**
- ◆ **CalRecycle report to Legislature 1/1/14**
- ◆ **High priority for new Director**
  - **Nexus with developing infrastructure in state, new jobs, GHG emissions, etc.**
- ◆ **Expect public workshops before mid-year**