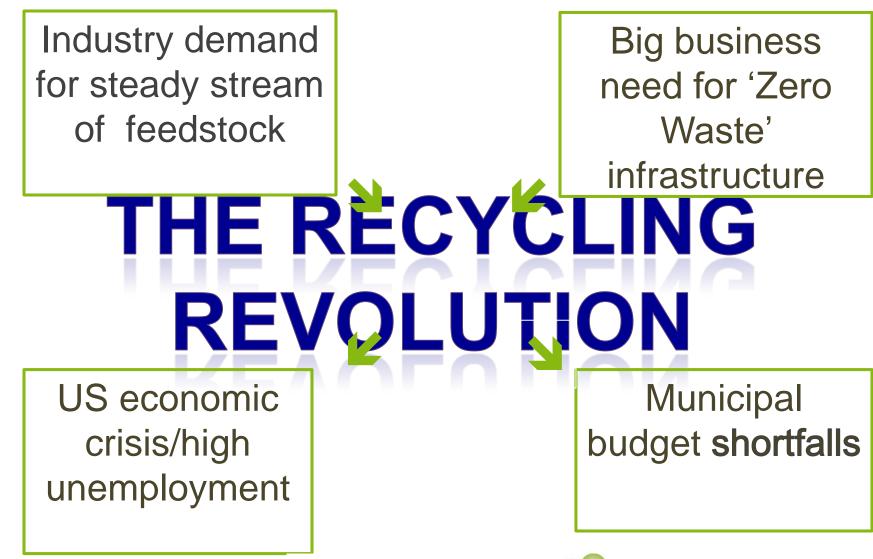
Overview:

South Carolina's Recycling Market Development Advisory Council [RMDAC] And

New Mexico Recycling Coalition Recycling Energy Stimulus Grant Project

> October 4, 2012 Kristen Brown Green Waste Solutions 843-241-3276 www.thewastesolution.com www.getmyeco.com





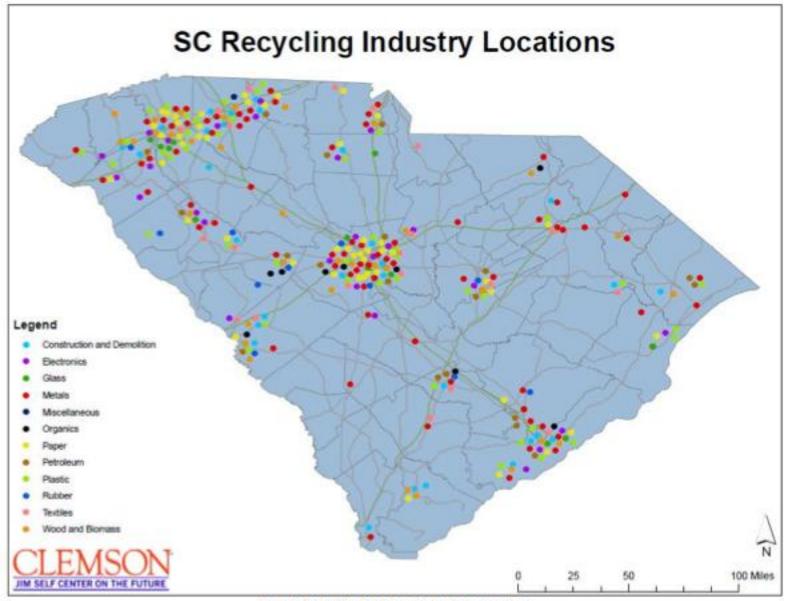
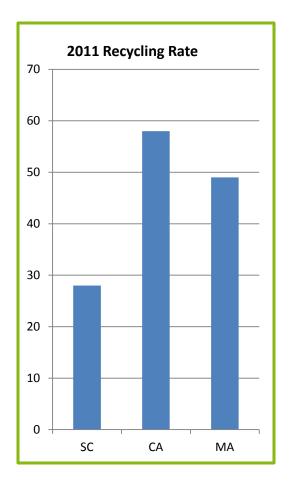
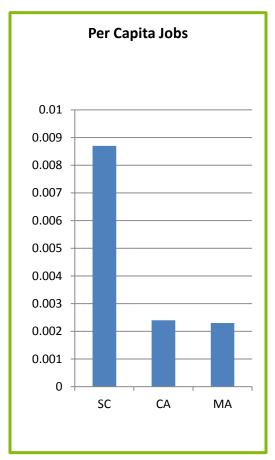


Figure 8: South Carolina Recycling Industry Locations





Since 2006, over \$4 billion in investment by the recycling industry in SC with over 6,000 jobs

In 2011 the recycling industry announced \$333 million in capital investment, creation of over 800 jobs with 15 new or existing companies

Source: 2005 - SC Economic Impact Study, 2006 - CA Integrated Waste Management Board, 2009 - Massachusetts DEP



Background South Carolina Recycling Efforts

- Recycling Market Development Advisory Council [RMDAC]
 - Created by the Solid Waste Management Act 1991 Supported by the Department of Commerce
 - 14 Governor appointed members
 - Mission: To grow the recycling industry 'cluster'
- 2010 Clemson University '*Recycling Industry Cluster Plan'*
 - RMDAC *New Carolina Council on Competitiveness RIG
 *Increase per capita income and competitiveness in SC focus on key industry sector growth
 - Comprehensive Recommendations
 - 1. Communications
 - 2. Networks and Collaboration
 - 3. Leverage Infrastructure
 - 4. Business Development
 - 5. Research and Education
 - 6. Policy
 - 7. Organizational Development
- 2011 South Carolina Recycling Council (SCRC) brand name Recyclonomics



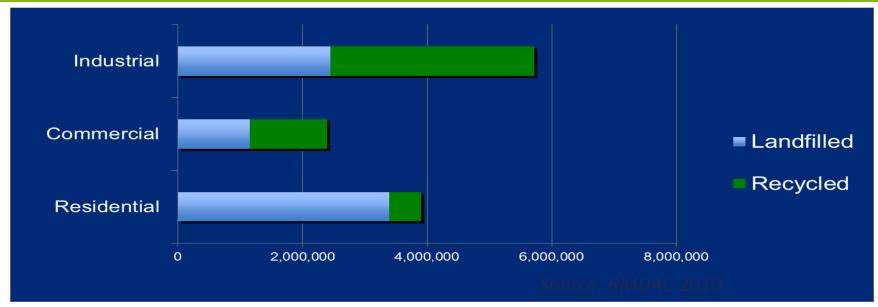
Collaboration



A collaborative effort by key stakeholders (government, the recycling industry, retailers, and consumer products) to rebrand recycling as an economic driver and increase the recovery of recyclable materials to SC markets.

70% recycling goal

Identifying Opportunities in SC



Source: RMDAC 2010

2011 - 348,000 tons of recyclable materials were buried
 \$12.5 Million in wasted disposal fees
 \$47 Million in lost revenue for local government

70% recycling rate would have a direct economic impact of \$3.7 Billion to the state of South Carolina

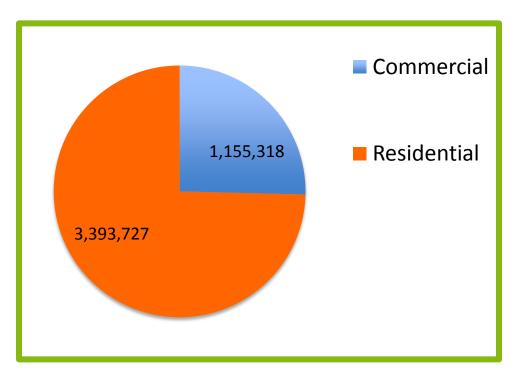


Residential Sector – Critical Sector

Waste Landfilled 2010

'Success of the industry is highly dependent on the voluntary recycling decisions made in the home and in the business community. Voluntary systems, without the backing of strong policy or incentives will not be enough.

Recycling Industry Cluster Strategic Plan, 2010





How Can You Increase the Recovery of Materials? Collaboration and Action

Target:

- Elected Officials
- Businesses
- Consumers

Action:

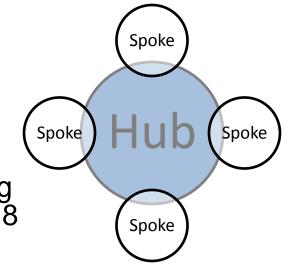
- Education and outreach to elected officials to demonstrate the need for policy and incentives
- Marketing and social media campaigns to engage consumers and businesses



Rural New Mexico Recycling Challenges

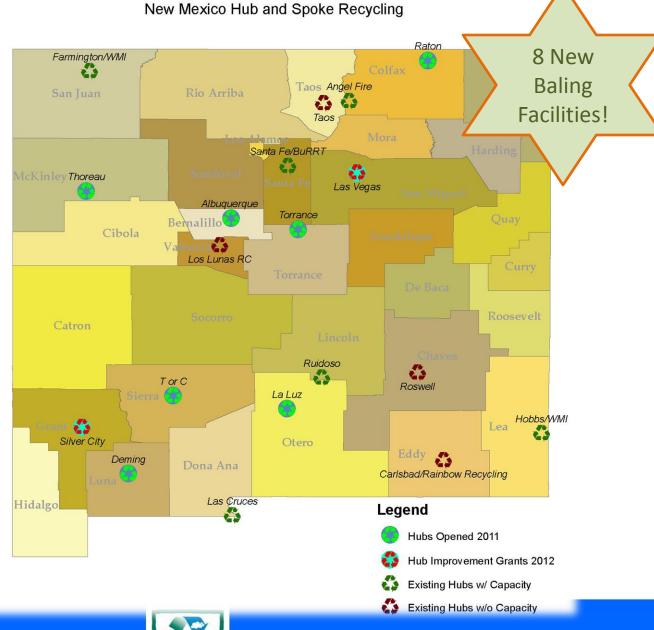
- 1.9 million people 36th
- 5th largest state in size 121,355 square miles
 - 15 people per square mile
- 2008-2013 focus on building infrastructure
- Initial mapping and rural recycling planning: USDA Rural Utility Solid Waste grant 2008-2010
- September 2010 August 2013 funding via Dept of Energy Stimulus Funds \$2.8 Million
 - Hub and Spoke Infrastructure
 - Brochures/Signage/Education/Technical Assistance
 - PAYT education and outreach







Strategic Development



New Mexico Recycling Coalition



www.recyclenewmexico.com

Elements to New Mexico's Success

- 1. Hub and Spoke Program
 - Developing solid infrastructure
 - Framework for future infrastructure development
- 2. Education and Outreach
 - Consistent Signage
 - Со-Ор
- 3. PAYT: critical strategy to increase material stream and support Hub and Spoke network – Residential & Commercial
- 4. Promote Policy that that drives recycling like PAYT
 - Outreach to legislature
 - Outreach to regional economic development
 - Outreach to municipal officials

Year	Rate	Annual Rate of Increase
2006	9.74%	
2007	10.96%	12.5%
2008	12.4%	13.1%
2009	14.6%	17.7%
2010	16.2%	11%
2011	20.72%	28%



Corrugated Cardboard *Cajas Corrugado*





Cajas Corrugado Bolsas de Papel Marrón

Produced by New Mexico Recycling Coalition. Printed with permission.

Please flatten boxes.

Se alpanar las cajas, por favor.

Cajas de cartón delgado (de cereal, galletas, etc.) *Otros Papeles Restos de Comida*

Pay-As-You-Throw - Critical Part of Strategy

- Study ICF International 2010-2011:
 - *'New Mexico Landfill Rate Analysis and Opportunities for Increased Diversion through Pay-As-You-Throw and Rate Incentives'*
 - Developed a better understanding of the waste stream and solid waste decision makers
 - Determined Imminent need and priorities
 - Created 3 over over-arching residential strategies
- Provided outreach and assistance through annual conference workshops, webinars, and in depth individual technical consultations
- Study ICF International 2012

'Adding 5,000 jobs to NM's Economy' A Plan to Increase Jobs Using Recycling-Based Pay-As-You-Throw and Economic Development'

Report to be released on November 15,2012



PAYT Jobs Related Residential PAYT Implementation

Estimated Job Growth Through Implementation of Residential PAYT					
	Direct Jobs	Indirect Jobs	Induced Jobs	Total Jobs	
New Mexico Status Quo 16.%					
recycling rate.					
Recycling Collection	502	65	321	888	
Recycling Processing	476	252	448	1176	
Recycling Manufacturing	1083	1603	1766	4452	
Reuse Remanufacturing	98	63	69	230	
TOTAL	2159	1983	2604	6746	
Estimated NEW jobs through reside	ntial PAYT				
Implementation to 34.7% diversion r					
Recycling Collection	755	98	363	1216	
Recycling Processing	717	380	674	1770	
Recycling Manufacturing	1630	2413	2657	6700	
Reuse Remanufacturing	147	174	52	372	
TOTAL	3249	3064	3745	10058	
TOTAL	5408	3 5047	6348	16804	

Preliminary draft findings – 'Adding 5000 Jobs to New Mexico's Economy' released November 15, 2012 – ICF International – [actual report may vary from this preliminary number]

PAYT Jobs Residential and Commercial

Estimated Job Growth Through Implementation of Residential and Commercial PAYT and achieving a 50% Recycling Rate

	Direct Jobs	Indirect Jobs	Induced Jobs	Total Jobs
New Mexico Status Quo				
16% recycling rate.				
Recycling Collection	502	65	321	888
Recycling Processing	476	252	448	1176
Recycling Manufacturing	1083	1603	1766	4452
Reuse Remanufacturing	98	63	69	230
TOTAL	2,159	1,983	2,604	6,746

Estimated increase in jobs through residential and commercial PAYT

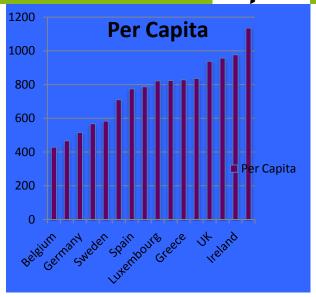
Implementation to 50% diversion rate.

Recycling Collection	1,291	168	620	2,079
Recycling Processing	1,225	649	1,152	3,026
Recycling Manufacturing	2,787	4,125	4,543	11,455
Reuse Remanufacturing	252	297	88	637
TOTAL	5,555	5,239	6,403	17,197
TOTAL	7,714	7,222	9,006	23,943

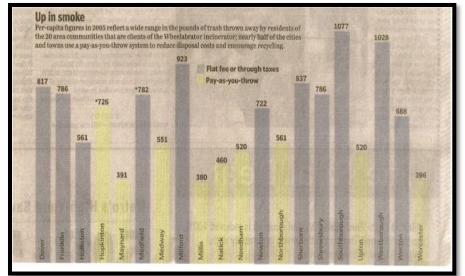
Preliminary draft findings – 'Adding 5000 Jobs to New Mexico's Economy' released November 15, 2012 – ICF International – [actual report may vary from this preliminary number]

Personal Lessons Learned

- The only way to immediately and sustainably reduce residential waste is PAYT
- A consistent measurement metric is vital
 - Isolate the commercial sector from the residential sector and measure their growth separately
 - Use per capita disposal as benchmark



Source: Institute for Public Policy Research 2007



Boston Globe February 2007