Recycling: Background & Status from EPA R4 Perspective

Rhonda J. Rollins, EPA Region 4

"What gets measured gets managed." - Lord Kelvin
EPA’s SMM Strategic Plan 2017-2022

- The Built Environment
- Sustainable Management of Food
- Sustainable Packaging
- Sustainable Electronics Management
- Measurement
- International Efforts
Measurement Snapshot (2016)

- Template Participation: For 2016 Data: 37 States + DC
- R4 States represent 20% of the US population (~65M)
- In 2016, R4 States reported they disposed of 58 million tons of MSW, recycled 20 million tons, composted 1.4 million tons of organics.
- Created about 40,806 jobs, and Region’s estimated economic net benefit of $3.6 billion
- 4 States have 29 Pay as You Throw programs (GA, KY, NC, TN)
- Households served by Curbside Programs: 8.1 million (NC, KY, FL)
- Nationally, that’s $12.7 BILLION benefit & >135,000 jobs
<table>
<thead>
<tr>
<th>State</th>
<th>Manufacturers</th>
<th>Jobs</th>
<th>Total Annual Sales</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alabama</td>
<td>42</td>
<td>17,350</td>
<td>$ 7,838,028,050</td>
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<tr>
<td>Arkansas</td>
<td>12</td>
<td>5,420</td>
<td>$ 1,710,190,000</td>
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<tr>
<td>Florida</td>
<td>28</td>
<td>4,884</td>
<td>$ 1,328,083,720</td>
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<tr>
<td>Georgia</td>
<td>49</td>
<td>13,151</td>
<td>$ 7,180,349,710</td>
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<tr>
<td>Kentucky</td>
<td>41</td>
<td>11,232</td>
<td>$ 5,171,108,970</td>
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<td>Louisiana</td>
<td>13</td>
<td>4,887</td>
<td>$ 1,146,008,370</td>
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<td>Mississippi</td>
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<td>1,971</td>
<td>$ 1,946,893,210</td>
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<td>North Carolina</td>
<td>60</td>
<td>14,142</td>
<td>$ 4,077,868,590</td>
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<tr>
<td>South Carolina</td>
<td>47</td>
<td>10,442</td>
<td>$ 5,562,649,580</td>
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<td>Tennessee</td>
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<td>7,730</td>
<td>$ 4,412,814,900</td>
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<td>Virginia</td>
<td>19</td>
<td>6,759</td>
<td>$ 2,782,619,720</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>362</strong></td>
<td><strong>97,968</strong></td>
<td><strong>$43,156,614,820</strong></td>
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</tbody>
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EPA/SERDC Economic Impact Study
Source: www.serdc.org/regionalresources
Arkansas Glass Container Corp.
516 W. Johnson Ave. Jonesboro, AR 72403
Commodity: Glass
Manufactured Products: A variety of glass containers for food, beverage
Annual Sales: 38,000,000
Annual Sales Range: E. $25MM - $50MM
Total Employees: 275
Updated from 2010 or new entry?: Updated from 2010
SEREDC State: Arkansas
Market Demand Stats

- KW Plastics – Troy, AL – World’s Largest recycler HPDE/PP – Plastics from Alabama only run plant for ~ 2 days, import the rest.
- ~ 27 million tons must be recycled to reach FL’s 75% recycling goal.
- GA - 2nd largest infrastructure in U.S. to utilize recovered material.
- Play Mart, Summerset, KY mfrs playground equipment from 80-95% recycled HDPE. ~ 1/3 of the needed milk jugs come from within 500 miles
- Nucor Steel, Flowood, MS purchases + 30% of their material from the scrap yard next door to the mill.
- Clear Path Recycling, Fayetteville, NC - largest PET recycling plant in N.A.
- In the past 5 years, SC’s recycling industry announced $1.1 Billion in capital investment & creation >2,500 jobs.
- TN – Launched online Materials Marketplace – Over 115 TN companies have joined.

Source: SERDC 2016 Demand Map Postcards & TN
Cost Savings - Examples

- Orange Co. Health Dept. (FL) assessed wastes and eliminated 2 dumpsters, replaced with recycling- saving about $260/month
- City of North Port, FL – 10,465 tons, net benefit $378,000 (2016)
- Pasco Co., Florida - K-12 Schools – ~2,100 tons, saved $978,000 (2017)
- One Bush Street, San Francisco – Office Building recycling/composting programs – Annual savings = $24,000
- FedEx, Memphis diverted over 11,000 tons, saved $15 million (2016)
- Mannington Mills-Calhoun, GA – (constr/eng.) – 1,800 tons, saved $932,000 (2016)
- Rooms to Go (Atlanta, GA) - prevented/recycled over 35,000 tons (mostly wood, cardboard, paper) – netting $6.9 million (2017)
- Texas Army National Guard, Austin, TX, diverted 3,506 tons of MSW and Construction and Demolition (C&D), saved $157,849 (2015)
Thank you!

Rollins.Rhonda@@@epa.gov
404-562-8664