

SOUTH CAROLINA DEPARTMENT OF COMMERCE
RECYCLING MARKET
DEVELOPMENT ADVISORY COUNCIL



2008 ANNUAL REPORT

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- ❖ Keep the Midlands Beautiful
- ❖ Leigh Fibers
- ❖ Michelin North America
- ❖ Moore & Van Allen Law Firm
- ❖ Mumford Industries
- ❖ New Carolina
- ❖ Nucor
- ❖ OmniSource Southeast
- ❖ Plastics Provider, Inc.
- ❖ Renew Resources, LLC
- ❖ R.W. Beck
- ❖ Sonoco
- ❖ Southeast Recycling Development Council, Inc.
- ❖ South Carolina Department of Commerce
- ❖ South Carolina Department of Health and Environmental Control
 - Office of Solid Waste Reduction and Recycling
 - Center for Waste Minimization
 - Small Business Environmental Assistance Program
- ❖ South Carolina Biomass Council
- ❖ South Carolina Energy Office
- ❖ South Carolina General Assembly
- ❖ South Carolina Materials Management Office
- ❖ South Carolina Sustainability Institute
- ❖ Swampfox
- ❖ Tracpak International, Inc.
- ❖ United Resource Recovery Corporation

We extend our appreciation to all our partners for their contribution to the efforts of the Recycling Market Development Advisory Council and to South Carolina's recycling industry.

Recycling Market Development Advisory Council (RMDAC) Mission Statement: To advocate opportunities to develop sustainable recycling markets, support the growth of South Carolina's recycling industry, and advise the state on efforts required to increase recovery of recyclable materials

RECYCLING MARKET DEVELOPMENT ADVISORY COUNCIL

The Recycling Market Development Advisory Council (RMDAC) is a council of 14 Governor-appointed members representing recycling companies, industry, local governments, higher education and the general public. The council, whose activities are managed by the South Carolina Department of Commerce (DOC), tracks the success and growth of the state's recycling industry and makes policy and program recommendations to the Governor and General Assembly each year. The council is supported by DOC's Recycling Market Development program (RMD). RMD staff duties include assisting with implementation of the council's work plan, coordinating RMDAC meetings and providing technical and economic development assistance to businesses, industry and other organizations.

The council addresses recycling market needs, helps expand the number of recycling businesses and industries in the state and promotes the economic and environmental benefits of recycling through policy and best management practices. RMDAC also plays a vital role in the Recycling Industry Group (RIG), formerly known as the Recycling Cluster. RIG's priorities are establishing policy, building networks, promoting market development and leveraging existing infrastructure and resources.

In 2008, two members transitioned off the council. These members included aluminum industry representative Cheryl Kirkland and glass industry representative Steve Carreras. William "Larry" McCaskill with Alcoa Mt. Holly was appointed to fill Ms. Kirkland's vacancy. Chris Fisher, current RMDAC member representing the general public, will now serve as the glass industry representative. The council will work with the Governor's Office to obtain a new representative for the general public.

RMDAC members have a strong passion for promoting and enhancing South Carolina's recycling industry. The council helps build partnerships with those in and parallel to the recycling industry and is a recycling knowledge resource for the state. Each member is committed to growing recycling businesses and creating jobs. A list of RMDAC members and the industries they represent is located in Appendix A on page 46.

Guiding Principles

- ❖ To meet specific council requirements contained in the S.C. Solid Waste Policy and Management Act of 1991.
- ❖ To assure existing and potential recycling businesses of a consistent, cost-competitive, quality supply of required recyclables.
- ❖ To identify existing barriers to and opportunities for increased recovery and use of recovered materials recycled within the state and take appropriate actions to eliminate or maximize these conditions.
- ❖ To monitor and understand the implications of institutional, economic, market and technical developments both in and out of the state that could measurably influence the generation and use of recyclables.
- ❖ To assist in the creation of jobs and investment of recycling industries in the state.

SOUTH CAROLINA SOLID WASTE POLICY & MANAGEMENT ACT

The South Carolina Solid Waste Policy and Management Act of 1991 requires that RMDAC consider the following elements in its annual report.

Any revisions which the council determines are necessary to its initial report

There are no revisions to be added at this time.

A description and analysis of the amounts and types of solid waste materials recovered or recycled in this state during the preceding year

The amounts and types of solid waste materials recycled in 2008 are illustrated on 33.

Recommendations regarding materials which should be added or deleted from source separation, recovery and recycling programs

Electronics, glass, carpet and construction and demolition materials should continue to be promoted as recyclable commodities and emerging markets.

Recommendations, including tax incentives, to facilitate the development of markets for recovered materials or products in this state

Legislation for a recycling equipment income tax credit was drafted in partnership with RMDAC, RIG and the South Carolina law firm of Haynsworth Sinkler and Boyd, P.A. Equipment costs are the barriers to growing a recycling business and being able to process more volumes. It was the council's hope to have the legislation introduced during the 2008 South Carolina legislative session, but RMDAC was unable to initiate traction for the legislation as declining revenues negatively impacted the economic climate of the state and legislators were mindful of the current economic conditions and several corporate income tax incentives that already exist for companies.

The council will continue to support recycling tax incentives as they help create jobs and capital investment. It is RMDAC's opinion that incentives will help generate new recycling businesses and assist with the expansion of existing businesses. Recycling tax incentives will help introduce new markets, expand local ones and support the economic and environmental benefits of recycling.

2008 ACCOMPLISHMENTS

RMDAC accomplished many of its goals and objectives in 2008. These accomplishments include hosting a successful Recycling Business Forum and Recycling Business Awards Program, as well as working with DOC, the South Carolina Department of Health and Environmental Control (DHEC) and Asphalt Rubber Technology Service (ARTS) on a crumb rubber initiative. The council worked with DHEC to update its work plan and with R.W. Beck on a Material Recovery Facilities (MRF) feasibility study. In addition, RMDAC assisted RIG with the development of its strategic plan.

Recycling Business Forum

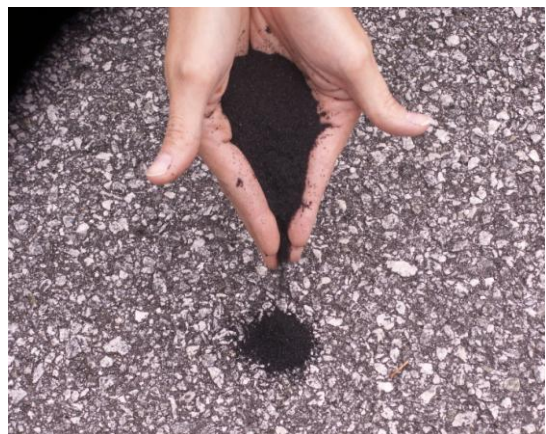
RMDAC held its annual Recycling Business Forum on September 8, 2008, at the Michelin Conference Center in Greenville, South Carolina. The conference brought recycling businesses and organizations together to help promote, strengthen and drive the momentum of South Carolina's recycling industry. The event provided participants with information on markets, activities of RIG and updates from DHEC, the Carolina Recycling Association (CRA), New Carolina and Michelin North America. In addition, a markets roundtable discussion provided participants with information on market trends for universal waste, plastics, metals and paper recycling. The markets roundtable included representatives from Sonoco, Cleanlites Recycling, United Resource Recovery Corporation, OmniSource Southeast and the City of Greenville. The day-long event drew 80 participants.

Recycling Business Awards

A Recycling Business Awards program was held in conjunction with the Recycling Business Forum. Representative Daniel T. Cooper, of the South Carolina House, served as the keynote speaker at the ceremony. During the ceremony, RMDAC and DOC recognized the achievements of recycling businesses and industry making a positive impact on the state's environment, communities and economy. The Recycling Business Awards winners were: *A Recycling Center, Sloan Construction Company, Inc., CMC Steel of South Carolina, Alcoa Mt. Holly and Milliken & Company.* A copy of the Recycling Business Awards press release is located in Appendix F on page 54.

Crumb Rubber Initiative

Crumb rubber, also called ground rubber, is made from grinding rubber products, such as scrap tires. It can be utilized in rubber, plastic, and rubber-plastic compounds to manufacture various products such as hoses, floor mats and ground cover for playgrounds. RMD staff and DOC Marketing staff developed a brochure for RMDAC's crumb rubber initiative. The initiative will help educate and promote the use of crumb rubber among rubber and plastic manufacturers. In addition to crumb rubber, the brochure will feature information on the ARTS and the



economic and environmental benefits of recycling. The brochure will be distributed to South Carolina companies that manufacture molded or extruded rubber and plastic to determine interest in using South Carolina processed crumb rubber.

RMDAC Work Plan

In 2008, RMDAC conferred to develop priorities and consulted with DHEC to update its work plan. The plan was revised and the council worked with its partners to achieve many of the action items established for the strategies. The work plan strategies and the status of each are as follows:

Strategy A: Expand recycling as an industry sector and expand the impact of the \$6.5B industry through additional investments and jobs through marketing and outreach.

RMDAC worked with RIG to develop RIG's action plan. RMDAC and RIG met three times during the year to work on, update, revise action items and implement the action plan. In addition to face-to-face meetings, monthly conference calls were held with RIG committee chairs and RMDAC's Executive Committee. RMDAC partnered with the CRA, Sonoco and Nucor to host a Recycling Industry Legislative Day. The event was held at the State House on February 7, 2008. Forty participants from the recycling industry received information on and how a bill becomes a law and advocacy. The recycling industry was recognized by the Legislature for its economic and environmental impact, creation of jobs and avoidance of landfill disposal through resolutions from the House (H4581) and Senate (S1051).

Strategy B: Develop and introduce tax incentive legislation for recycling through the Recycling Sector Industry group.

RMDAC and RIG pursued a corporate income tax credit for qualified recycling equipment. The legislation was developed in cooperation with attorneys at Haynsworth Sinkler and Boyd, P.A. Input on the legislation was also received from the South Carolina Department of Revenue (DOR). The tax credit would allow a taxpayer that purchases qualified recycling equipment used exclusively within South Carolina to be entitled to a credit against income taxes in an amount equal to 20 percent of the cost of the recycling equipment. This credit would not exceed \$300,000 per taxpayer per year or 50 percent of the taxpayer's total income tax liability. Any unused amount would be carried forward for up to 10 years from the close of the tax year in which the credit is earned. RMDAC and RMD staff assisted the Board of Economic Advisors with the recycling business utility bill tax incentive (H3649) and identified the number of recycling and manufacturing companies eligible for the credit under the new language in the legislation.

Other legislation that RMDAC researched and discussed includes the Electronics Recycling Act (H3398) and Manufacturer's Responsibility Bill for electronic waste (H3392). The Electronics Recycling Act would have established consumer electronic waste recycling fees, required funds be disbursed to each county based on population and required retailers to provide information to consumers describing how and where to return and recycle electronic equipment. The advance recycling fee collected from

this legislation would have been used to establish and assist in the development of facilities to eliminate electronic waste. The sponsors for H3398 included Representatives Funderburk, Haskins and Brady. The legislation for the Manufacturer Responsibility Bill would have required manufacturers of electronic waste to offer a recovery program for the collection of the materials without any additional costs to the consumer. The sponsors for H3392 included Representatives Loftis, Shoopman, Davenport, Haley, Bedingfield, Cato, Hinson, Perry, Rice, G.R. Smith, Spires, Toole and Witherspoon. RMDAC supported the H3398 bill as it provided a comprehensive mechanism for the collection of electronics through recycling businesses as well as consideration for infrastructure at the local government level.

RMDAC will continue to work with RIG, DHEC, DOR and other entities to research and examine future recycling related legislation and programs.

Strategy C: Utilize R.W. Beck MRF study to recruit or expand existing companies to run MRF's in the state.

R.W. Beck completed the MRF feasibility study contracted by RMDAC and DOC. The objective of the study was to determine if a need exists in South Carolina for additional new MRFs. R.W. Beck's findings indicate that South Carolina's existing MRFs and Recovered Materials Processing Facilities (RMPF) have sufficient capacity to process increased quantities of recyclables that would be anticipated under scenarios where statewide recycling rates increase to 35 percent and 50 percent respectively. The North Augusta MRF would be an exception in that it would likely require adjustment to its operations or expansion to recover and process substantially larger amounts of recyclables.

South Carolina's small RMPFs facilitate recycling that otherwise would not happen; however, the RMPs have limitations that can be barriers to achieving higher levels of recycling. When a few smaller RMPFs can be replaced by a new MRF, there are new opportunities for increased materials recovery and improved cost-effectiveness of local recycling systems. End user demand for recovered materials from South Carolina is strong and consolidating tonnages from several smaller RMPFs would be expected to lead to more end user competition for processed materials and stronger market prices paid. There are also economic benefits that would be realized both locally and statewide in terms of job growth and tax revenues to the state and local governments from the increased level of recycling that would be projected to occur. R.W. Beck identified two regions of the state that have potential to replace small RMPFs and enable local recycling program changes that could help South Carolina achieve statewide recycling rates. These regions are:

- Florence County and the counties that surround it, including Darlington, Lee, Clarendon, Williamsburg, Marion and Dillon Counties; and
- Beaufort County and the counties that surround it, including Colleton, Hampton and Jasper Counties.

Challenges to the success of these prospective MRFs include commitment from local political leaders in these areas to work together to direct existing recyclables collected in their recycling programs from their RMPFs to a new MRF so that sufficient tonnages can be aggregated to justify the capital expenditure that would be required to construct the MRFs. Additionally, there appears to be a need for a MRF in the southern part of the state near Beaufort County and it is possible that an existing private facility may expand its reach into the residential and commercial recycling arena and/or that a planned facility in Savannah, Georgia could satisfy the requirement and negate the need for an additional MRF in Beaufort County.

At the time of the study, details of the proposed facility in the Savannah area regarding its ability to process materials from South Carolina, including any processing costs/revenue sharing arrangements, were not final. R.W. Beck recommended that RMDAC, DOC, DHEC and local governments in the southernmost part of the state investigate the ability of the proposed Savannah MRF to meet South Carolina's needs before deciding on the need for a new MRF in the southernmost part of the state. Even with a new MRF in the Savannah area, a MRF in southern South Carolina may be attractive for economic development reasons or to avoid additional costs of transferring material to a more distant facility, provided it can attract enough tons.

Before committing to construct either prospective MRF, R.W. Beck recommends that discussions be held between public or private entities that may develop the MRFs and local governments and private haulers that would need to expand the recovery of recyclables and direct the flow of those recyclables to the new MRFs. These discussions will help to verify the amount of materials that the MRFs can plan on receiving.

Strategy D: Recruit viable composting businesses to recruit to South Carolina once DHEC composting regulations are promulgated.

As part of this strategy, DOC and RMD staff recognized that business opportunities were being lost to other states as large scale composting facilities were locating in other states because the state lacks the appropriate permitting language to permit these types of facilities. A first draft was completed by DHEC permitting staff in 2008 and the current status of the regulation drafting process is that staff is updating, clarifying and amending the application, design, operation, monitoring, analytical testing, reporting and closure requirements for the composting and grinding of yard trash and land-clearing debris. DHEC plans to clarify distinctions between composting and grinding operations as well as define requirements for temporary short-term grinding sites and propose to expand the scope of the regulation by addressing the composting and grinding of other waste and mixed waste streams which includes food scrap. Storm water and leachate control requirements, procedures for prevention of fires, pilot/demonstration projects and requirements for the quality/safety of the finished compost product will also be addressed. Once compost regulations are promulgated, the council will assist with outreach and recruiting composting facilities to South Carolina.

Strategy E: Maximize recycling opportunities through connecting materials, markets, and recycling businesses through the use of data and information.

A survey is being developed to assess the state's approximately 5,000 manufacturing companies' availability of recyclable materials and to determine what South Carolina products are manufactured from recycled content inputs. The survey will help quantify the amount of materials that are available for recycling and the market capacity manufacturers have for recyclable materials. It will be distributed to South Carolina's manufacturing base and RMD staff will investigate partnership opportunities with the South Carolina Manufacturer's Alliance and/or the South Carolina Chamber of Commerce to encourage their members to complete the survey. The council will market recycling to business and industry sectors using the information gathered from the survey. Information on products manufactured with recycled content is being sought by the Environmental Protection Agency (EPA) Region IV and the Southeast Recycling Development Council (SERDC) for a report due in 2009.

RMDAC staff is working with DOC Information Technology staff to create a new searchable, online Recycling Business Directory on DOC's website that will be made available to a wide community of stakeholder recycling businesses and markets for materials. The council will seek to partner with CRA and other organizations to educate business and industry groups about recycling and connect them with recycling businesses. In addition, RMDAC will identify counties without existing recycling businesses and work with local economic developers to assist in recruiting new and expanding existing recycling businesses. A copy of the Recycling Business Directory survey is located in Appendix M on page 67.

Strategy F: Develop beneficial reuse of waste tires for value-added products.

RMDAC has joined with DOC to develop a brochure for its crumb rubber initiative. The document will be mailed to approximately 300 companies that manufacture molded or extruded rubber and plastic to determine interest in using South Carolina processed crumb rubber. RMDAC will work with DHEC, ARTS and the Rubber Manufacturers Association to assist with the market development of crumb rubber product. ARTS, housed at Clemson University, will assist companies with technical requirements and any testing the lab can provide so that companies can integrate recycled rubber into their plastics and rubber products.

Strategy G: Promote recycling business start-ups by developing workshops and written materials.

In May 2008, a Request for Proposal (RFP) for a Recycling Business Development Workshop was submitted. The objective of the RFP was to obtain a vendor to prepare materials and conduct a workshop that provides entrepreneurs and businesses expanding into recycling information on the tools and resources needed to start a recycling business. The workshop would offer information on recycling business development, markets and operations management. Information and materials obtained

from this training will be utilized by RMDAC staff to conduct future recycling business development workshops. The RFP was solicited, but no proposals were received. Based on feedback from potential vendors, it was indicated that vendors either had experience in business development or recycling, but not both. Staff worked with DOC to gauge interest from allies such as the Solid Waste Information eXchange (SWIX), FastTrac, South Carolina Women's Business Center and the Small Business Development Center in light of the lack of proposals for the first round of solicitations. Currently, RMDAC is engaging in discussions with DOC regarding conducting the workshops through FastTrac with information collected internally.

The council's initial work plan incorporated the development of a grant program. Based on discussions with DOC, DHEC and various Councils of Governments, it was determined that a grant program was not a viable strategy for RMDAC to pursue. After discussions with DOC, RMDAC decided to pursue a loan program in lieu of a grant program. However, this alternative revealed there may be better ways to help businesses find new markets without establishing a state loan program.

DHEC is supportive of pursuing other choices to promote recycling market development and wants to move forth with new options that will accomplish this objective. Some initial alternatives discussed include conducting a waste survey, outreach and education to local economic developers and marketing recycling by promoting new business. RMDAC needs to evaluate all options and determine a budget before making a decision.

Additional Highlights

In 2008, recycling businesses and industry generated over \$1.13 billion in capital investment and created over 1,379 new jobs, and resulted in 23 new companies announcing investment in South Carolina. Compared to \$929 million in capital investment and 620 new jobs in 2007, this is approximately a 22 percent increase in investment and a 120 percent increase in jobs related to recycling. This coupled with an estimated \$6.5 billion annual economic impact provides over \$7.6 billion to the recycling related industry in South Carolina.

Additional accomplishments include:

- Assisted with economic development opportunities and expansions in the recycling industry.
- Worked with DOC Marketing and Information Technology staff to re-vamp the online recycling businesses directory.
- Partnered with the South Carolina Sustainability Institute, DHEC and the South Carolina Energy Office (EO) on the South Carolina Green Building Directory.
- Promoted outreach and education of the recycling industry through workshops, forums and marketing.
- Collaborated with DOR, Haynsworth Sinkler and Boyd, P.A. to draft legislation for recycling equipment.
- Consulted with DHEC and the General Assembly on legislation for electronic waste.

- Worked with DOC to get a proviso to change the due date of RMDAC's annual report from December 31 to March 15.
- Partnered with DOC to develop a quarterly Recycling Newsletter.
- Provided technical assistance to approximately 28 entities on the start-up or expansion of small recycling businesses.
- Supported efforts to increase the state's recycling rate by encouraging businesses and industry to report their recycling data.
- Promoted the South Carolina Materials Exchange, Index of Waste Minimization Resources and South Carolina Smart Business Recycling Program as resources for South Carolina industries.
- Continued work with other states, businesses and industry to research alternatives for increasing the recovery rates for aluminum, glass, paper, plastics, aluminum, glass, construction and demolition and electronics.
- Helped coordinate the Swampfox Sustainability Forum - December 2, 2008
- Provided technical support for the South Carolina State Agency Green Purchasing Initiative
- Supported CRA Conference Session and Awards

2008 PROGRAM INITIATIVES

RMDAC is supported by three committees: Executive, Policy and Strategic Initiatives and Recycling Business and Economic Development. The Executive Committee consists of the RMDAC Chair, Vice Chair, the chairs of the Policy and Economic Development committees and staff. The Policy and Economic Development committees consist of Council members and staff with support from DHEC. Each of these committees seek to support and advance RMDAC goals and objectives, assist in developing and implementing the work plan and advance South Carolina's recycling industry.

Executive Committee Goals and Objectives

- Coordinate the activities of RIG.
- Promote the recycling industry as an economic engine in South Carolina.
- Support job creation by assisting with the recruitment of new business and the expansion of existing business.
- Expand marketing, research and outreach and education.
- Assist in increasing South Carolina's capital investment in the recycling industry and the recycling industry per capita wage rate.
- Assist in providing additional research on markets not yet being served by South Carolina's recycling industry.
- Explore emerging recycling technologies as business opportunities.
- Provide technical assistance through the Smart Business Recycling Program.
- Encourage and support the development of recycling incentives.
- Work with South Carolina businesses and industries to assist them with their recycling needs.
- Educate businesses and industries about the economic and environmental benefits of recycling.
- Work with DHEC to develop compost regulations.

Policy and Strategic Initiatives Committee

- Support electronic waste legislation.
 - H3392: Manufacturer Responsibility Act
 - H3398: Electronic Recycling Act
 - S169: Electronic Recycling Program
- Support recycling legislation.
 - H3649: Energy Freedom and Rural Development Act
- Explore used oil alternatives.
- Examine re-refined oil and potential for state agencies to use it.
- Explore new markets for waste tires.
- Assist in recruiting new recycling businesses and expanding existing recycling industry.
- Implement recycling business and industry incentives that promote job creation, capital investment, expansion and use of recycling equipment.

- Engage South Carolina’s recycling industry as advocates for recycling policies and new markets.
- Assist with RMDAC’s work plan strategies.

Recycling Business and Economic Development Committee

- Identify new markets for glass recycling.
- Attend and stay abreast of the South Carolina Biomass Council’s efforts and initiatives.
- Assist with the development of MRF study RFP.
- Assist with the development of the Recycling Business Development Workshop RFP.
- Assist with RMDAC’s work plan strategies.
- Research the need for a study on viable composting businesses to recruit to the state once DHEC composting regulations are promulgated.
- Promote recycling business start-ups by developing workshops and written materials.

Executive Committee Members

Gerry Fishbeck, *RMDAC Chair, URRC*
 Ronnie Grant, *RMDAC Vice-Chair, Sonoco*
 Chantal Fryer, *Staff*
 Tonya Lott, *Staff*

Policy and Strategic Initiatives Committee

Norman Chandler, *Chair, Republic, Inc.*
 Gerry Fishbeck, *URRC*
 Hari Krishnan, *Michelin*
 Roger LeDuc, *City of Aiken*
 Donna London, *Clemson University*
 Victor Carpenter, *Greenwood County*
 Chantal Fryer, *Staff*

Recycling Business and Economic Development Committee

Phil Ammons, *Chair, Plastics Provider, Inc.*
 Michael Baird, *Milliken & Company*
 Chris Fisher, *Fisher Recycling*
 Steve Carreras, *Recycle America Alliance*
 Ronnie Grant, *Sonoco*
 Larry McCaskill, *Alcoa Mt. Holly*
 Art Levy, *OmniSource Southeast*
 Tonya Lott, *Staff*

EXECUTIVE COMMITTEE

2008 Objectives

Goal: Position South Carolina's recycling industry as an economic engine through the creation of jobs and capital investment.

- Promote economic development and job creation for South Carolina's recycling industry.
- Help develop plans for RIG activation.
- Engage recycling businesses and industry as advocates.
- Encourage partnerships and networking opportunities for South Carolina's recycling businesses and industry.



MISSION

Provide guidance, review objectives and participate on RMDAC and RIG committees.

2008 Accomplishments

- Worked with DHEC and DOC to update RMDAC's work plan.
- Helped facilitate RIG's strategic plan.
- Participated in RIG conference calls and in meetings.
- Partnered with the CRA, Sonoco and Nucor to promote South Carolina's Recycling Industry Legislative Day.
 - House (H4581) and Senate (S1051) resolutions presented to RIG.
- Held the Recycling Business Forum and Recycling Business Awards Program.
- Provided markets information.
- Promoted South Carolina's recycling industry.
- Increased education and outreach among businesses and industry in support of South Carolina's recycling industry.
- Identified prospects for South Carolina's recycling industry.
- Partnered with the CRA and RIG on the application and development for a South Carolina recycling license plate.
- Secured presenters for RMDAC and RIG meetings.

POLICY & STRATEGIC INITIATIVES COMMITTEE

2008 Objectives

Goal: Obtain legislative champions to support recycling equipment and electronic waste legislation.

- Work with RIG and CRA to hold a Recycling Industry Legislative Day.
- Investigate and summarize proposed electronic waste legislation.
- Educate policy-makers on RMDAC and work with legislative committees to familiarize them with South Carolina's recycling industry.
- Investigate changing RMDAC legislation language to reflect a later due date for its annual report so that it coincides with DHEC's March 15 due date for its Solid Waste Management Annual Report.
- Investigate incentives for new recycling businesses and expansion opportunities.
- Investigate developing financing options for recycling businesses through grants.
- Expand tax incentives to include recycling businesses.



MISSION

Implement strategic market development policy and programs through legislative, governmental and private sector initiatives.

2008 Accomplishments

- Held a Recycling Industry Legislative Day.
 - House (H4581) and Senate (S1051) resolutions presented to RIG.
- Researched and summarized proposed electronic waste legislation.
 - H3392: Manufacturer Responsibility Act
 - H3398: Electronic Recycling Act
 - S169: Electronic Recycling Program
- Provided input to policy makers on electronic waste legislation.
- Worked with DOR, Haynsworth Sinkler Boyd, P.A. and Nexsen Pruettt on drafting proposed tax incentive legislation for recycling businesses and industry.
- Proviso changing due date of RMDAC's annual report from December 31 to March 15.

RECYCLING BUSINESS AND ECONOMIC DEVELOPMENT COMMITTEE

2008 Objectives


Goal: Increase recovery and reuse of recyclable materials in South Carolina.

- Work with the Policy and Strategy Committee to recommend changes to RMDAC legislation for new industry representation on the Council.
- Draft RFP for MRF feasibility study.
- Draft RFP for Recycling Business and Industry Workshops.
- Stay abreast of the drafting of DHEC's composting regulations.
- Work with DOC, DHEC and ARTS on a crumb rubber initiative.
- Encourage electronic waste recovery.



MISSION

Facilitate the recovery of established recycling commodities for recovery, encourage the increased collection and use of these materials, and identify ways to overcome barriers to markets.



2008 Accomplishments

- Drafted MRF RFP.
- Worked with R.W. Beck and DHEC to finalize MRF feasibility study.
- Drafted RFP for Recycling Business and Industry Workshops.
- Worked with DOC, DHEC and ARTS on a crumb rubber initiative.

RECYCLING INDUSTRY GROUP

RIG is a group that works to increase the recycling industry's competitiveness. RIG is supported by RMDAC with help from New Carolina.

The mission of RIG is to expand and strengthen South Carolina's recycling industry by establishing policy, building networks, promoting market development and leveraging existing infrastructure. Its vision is for South Carolina to be a national leader in the recycling industry in terms of creating jobs and investment and providing sustainable markets for recyclable materials.

The group is composed of five committees; *Business Environment, Firm Formation, Joint Marketing, Value Chain* and *Cross Functional*. RMDAC worked with the group to develop its strategic plan. This year, with the support of RMDAC, RIG held monthly conference calls and three meetings. The first meeting was held in Columbia, South Carolina at the P. Charles LaRosa Jr. Human Resources Development Center at the South Carolina Vocational Rehabilitation Department. The committee reviewed the *7 Groups of Cluster Activities*, which include Business Environment, Value Chain, Firm Formation, Joint Marketing, Intelligence, Process Human Resource (Process H/R) and Joint Research & Development (Joint R&D). The committee brainstormed the strengths, weaknesses, opportunities and threats for each activity. Subsequent meetings were held in Columbia, South Carolina, at the Clemson Sandhills Lake House and Greenville, South Carolina, at the Michelin Conference Center. During these meetings, the group outlined goals and objectives for the committees including: branding the recycling industry and creating awareness about its economic impact, marketing the successes of the industry, assisting with reporting on recycling numbers by businesses, tax incentives and financial avenues.



RIG is building partnerships and making significant progress in its pursuit to advance South Carolina's Recycling Industry. Examples of partnerships include a Recycling Industry Legislative Day whereby the group joined with RMDAC, CRA, Nucor and Sonoco to educate legislators about South Carolina's recycling industry. Another joint venture is the development of a South Carolina recycling license plate. RIG is working with representatives of RMDAC, CRA, Clemson University and the South Carolina

The Legislature recognized RIG through Recycling Resolutions from the House (H4581) and Senate (S1051). Gerry Fishbeck, United Resource Recovery Corporation (left), Representative Sandifer, House of Representatives (center), Kerry Krumsiek, CRA (right) and RIG representatives.

Department of Motor Vehicles to apply and develop the specialized plate. The CRA has committed to assist in this and pay necessary fees for the application process for the specialized plate. Revenue generated from the sale of the plates will be utilized to

reimburse the CRA and additional funds will be utilized to assist businesses with recycling equipment such as balers and bins. RIG is also collaborating with Clemson University on “*Your Day*” which is a radio segment featured on South Carolina Educational Television Radio. Each month, the show will highlight educational information about the recycling industry and guest speakers working in the recycling industry will also be featured.

RECYCLING MARKET DEVELOPMENT PROGRAM



RMD is a program that functions within the Business Services division at DOC. The program promotes market development for recycled materials, assists start-up recycling businesses, helps existing companies with their expansion efforts and provides technical assistance to business and industry with their efforts to reduce waste streams and increase the amount of materials recovered and recycled.

RMD staff received 165 requests for assistance from businesses, industries, government agencies, general public and other organizations. Staff followed up on these requests, and assistance was provided through the South Carolina Smart Business Recycling Program. The staff provided assistance with business development, recycling, waste reduction, marketing, finance, regulatory affairs and professional recycling organizations.

RMDAC held its annual Recycling Business Forum on September 8, 2008, at the Michelin Conference Center in Greenville, South Carolina. The forum brought recycling businesses and other industries together to help promote, strengthen and drive the momentum of South Carolina's recycling industry. The event provided participants with information on markets, RIG, DHEC, CRA and Michelin North America. Presenters for the Forum included Kent Coleman (DHEC), Kerry Krumsiek (CRA), James "Jim" Rogers (New Carolina), Myra Carpenter (Michelin North America), Ed Marr (City of Greenville), Thomas Kimmel and Ryan Rogers (Cleanlites Recycling), Ronnie Grant and Grady Weaver (Sonoco), Gerry Fishbeck (United Resource Recovery Corporation) and Art Levy (Omnisource Southeast). A markets roundtable discussion provided participants with information on market trends for universal waste, plastics, metals and paper recycling. The markets roundtable included representatives from Sonoco, Cleanlites Recycling, United Resource Recovery Corporation, OmniSource Southeast and the City of Greenville. Eighty participants attended the event.

Overall, participants felt the forum was productive and informative. Comments received from participants included RMDAC exhibiting at the Municipal Association of South Carolina's annual conference, sponsoring more networking events throughout the year and developing regional market efforts to support the recycling industry. A copy of the evaluation is located in Appendix N on page 68.

An awards ceremony was held during the Recycling Business Forum. Representative Daniel T. Cooper, of the S.C. House, served as the keynote speaker at the ceremony. RMDAC and DOC recognized the achievements of five recycling businesses for their positive impact on the state's environment, communities and economy.

The following businesses and industry were recognized for their recycling achievements:

Best Small Recycling Business - A Recycling Center, Columbia, South Carolina

A Recycling Center, established in 2001, is a direct from the public collector of electronics and scrap metal. In 2007, A Recycling Center recycled over 4.5 million pounds of metal and pumped more than \$2.5 million into the local economy. Between 2007 and 2008, the company doubled the size of its facility with the addition of a warehouse. A Recycling Center is a strong believer in using post-consumer recycled content products and invites Columbia area businesses to utilize their paper recycling container.

Best Medium Recycling Business - Sloan Construction Company Inc., Duncan, South Carolina

During 2007, Sloan Construction Company Inc. recycled approximately 18 million pounds of hot mix asphalt saving almost 17 million pounds of crushed stone from being extracted from local quarries. This recycling effort saves 108,000 gallons of liquid asphalt per year, reducing dependence on foreign oil. At each of its five asphalt plants, Sloan Construction Company Inc. purchased 360,000 gallons of both recycled and renewable fuels for a significant reduction on total foreign oil usage.

Best Large Recycling Business - CMC Steel South Carolina, Cayce, South Carolina

CMC Steel South Carolina, a steel mini-mill, recycles nearly 700,000 tons of scrap metal a year into valuable new steel products for the construction industry. In 1999, the company established a Solid Waste Task Force to assist with reducing the amount of waste being disposed by the mill. Since the creation of this task force, CMC Steel South Carolina has recycled over 1.4 billion pounds of scrap metal, 240,000 pounds of pallets, 33,000 pounds of cardboard and 12,000 pounds of #2 plastic bottles.

Best Industry Recycling Program - Alcoa Mt. Holly, Goose Creek, South Carolina

Alcoa Mt. Holly began operations in 1990 with the collection of office paper, newspaper, magazines, cardboard, aluminum cans and scrap metal. Since then, collections have expanded to include batteries, printer cartridges, plastics and many other recyclable items. The company currently exceeds its corporate goals of 50 percent reduction by achieving greater than 77 percent reduction in waste-to-landfill.

Recycler of the Year - Milliken & Company - Spartanburg, South Carolina

Milliken & Company is one of the world's largest privately held textile and chemical companies. Milliken has taken aggressive action to meet its goal of zero waste-to-landfill worldwide and in 2007 reused or recycled 78 percent of its material representing more than 71.5 million pounds. Worldwide, less than one percent of Milliken's total waste stream is land-filled-only. More than 99 percent of solid waste goes to beneficial applications such as reuse, recycling and boiler fuels.



Recycler of the Year award: Michael Baird, Milliken & Company (center)
Gerry Fishbeck, United Resource Recovery Corporation (left)
and Representative Dan Cooper, House of Representatives (right).

Recycling Business Directory

In past years, RMD offered a database resource on DOC's website. It was a listing of South Carolina companies that provide recycling services or manufacture products made from recycled materials. It was used by RMDAC's partners and advertised as one of the resources for the South Carolina Smart Business Recycling Program. The survey will be used to create a new directory. RMD staff is working with DOC's Information Technology and Marketing staff to develop and implement the directory. The database is no longer listed on DOC's website as it needs to be upgraded and the list of recycling businesses needs to be updated. RMD staff developed a Recycling Business Directory survey and disseminated it to recycling businesses and recycling relating companies. The anticipated launch date is spring 2009. A copy of the Recycling Business Directory survey is located in Appendix M on page 67.

Recycling Newsletter

RMD staff collaborated with DOC to develop a Recycling Newsletter which is a quarterly resource that provides information on the activities of RMDAC, the recycling industry and recycling legislation. Subscribers receive announcements on upcoming dates such as conferences, recycling events, award ceremonies and much more. The Recycling Newsletter also highlights the success of new and existing recycling businesses in the state. Additionally, there is a message from the chair whereby the Chairman of RMDAC offers his thoughts on events affecting South Carolina's recycling industry.

South Carolina Smart Business Recycling Program

The South Carolina Smart Business Recycling Program provides free, confidential and non-regulatory technical assistance on recycling, waste reduction, beneficial reuse and other ways for businesses to conserve resources. The program offers site visits, waste assessments, market assistance, educational materials, staff training and other services. It is a partnership between RMDAC and DHEC's Office of Solid Waste Reduction and Recycling, Center for Waste Minimization and Small Business Environmental Assistance Program.

These partners meet quarterly to discuss program initiatives, strategies, best management practices and outreach and education. This year, the program incorporated company success stories on its Web page, launched an electronic newsletter and initiated an awards program.



Businesses, industries and other entities can seek assistance for their recycling needs by calling DHEC toll-free at (800) 768-7348 or DOC at (803) 737-0400. The South Carolina Smart Business Recycling Program works to try and get businesses and industries to voluntarily report their recycling data to their county recycling coordinators. These numbers are utilized to determine the state's recycling rate. In addition, this information will allow the program to determine measures to help increase the recycling rate. The program Web site can be viewed at http://www.scdhec.gov/environment/lwm/recycle/smart_business/index.htm.

By reporting these numbers, entities are helping to increase the overall state recycling rate. In 2007, staff provided assistance to 165 businesses through the South Carolina Smart Business Recycling program.

South Carolina Materials Exchange

The S.C. Materials Exchange is a free, Web-based service that seeks to reduce waste by facilitating the exchange of reusable materials by businesses, non-profit institutions and government agencies. The Smart Business Recycling Program utilizes this tool to help encourage the reduction, reuse and recycling of materials and promotion of recycling markets. When recycling businesses and industry utilize the South Carolina Materials Exchange, they are helping to increase the state's recycling rate and decrease the disposal rate. The South Carolina Materials Exchange can be accessed at www.scdhec.gov/scme.

Index of Waste Minimization Resources

Another resource is DHEC's Center for Waste Minimization's Index of Waste Minimization Resources. This index provides users of company by-products, equipment to help minimize waste, services to assist with waste minimization programs and substitutes for hazardous materials. The Index of Waste Minimization Resources link is <http://www.scdhec.gov/environment/admin/CWM/wmindex/WmindexSearch.aspx>.

South Carolina Green Building Directory

The South Carolina Green Building Directory is a free online tool of green building resources. The directory, established by the South Carolina Sustainability Institute, provides information on products and services that support green building practices in the state.

The South Carolina Sustainability Institute accepts product and service registrations, as well as registrations for companies as a whole, for its online directory of businesses

that manufacture green products in South Carolina or within 500 miles of the state's border. Companies providing green services and maintaining offices within South Carolina are encouraged to register their business. DOC, DHEC and EO sponsored the development of the green building directory in conjunction with the South Carolina Sustainability Institute. For more information, visit <http://www.scgreenbuildingdirectory.org/>.



Sustainability Forum

A Sustainability Forum, sponsored by Swampfox and Jute Networks, was held on December 2, 2008 at the University of South Carolina. Partners for the event included Clemson University, the University of North Carolina-Charlotte, Milliken and Michelin. The forum focused on green purchasing and waste management initiatives. RMDAC staff served on the Sustainability Forum Steering Committee and presented at the event. Over 60 participants attended the forum. The objective of the forum was to bring businesses, industry, investors and academia together to promote sustainability in the fields of green purchasing and waste management.

South Carolina State Agency Green Purchasing Initiative

RMD staff is actively engaged in a South Carolina State Agency Green Purchasing Initiative. The objective of this initiative is to promote and advance green purchasing amongst state government agencies. The initiative is in its infancy stage, as goals and objectives are currently being developed. Monthly meetings are held between DOC, DHEC, EO, South Carolina Materials Management Office (MMO), South Carolina Information Technology Management Office, South Carolina Budget and Control Board, Midlands Technical College and the College of Charleston. RMD program staff helps to facilitate the meetings and implemented the use of WebEx, a Web-based conference tool, for participants not able to attend the meetings. Utilizing WebEx helps minimize travel cost, greenhouse gas emissions and promotes green conferencing. RMD program staff will continue to promote the use of WebEx in future initiatives they pursue.

Carolina Recycling Association



CRA has been advancing waste reduction and recycling since 1989. In 2009, the CRA will hold its 19th Annual Conference and Trade Show. More than 500 professionals from North and South Carolina's recycling industry will gather in Spartanburg, S.C., to network, learn, plan and influence issues affecting recycling in the Carolinas. The conference will be held at the Spartanburg Marriott at Renaissance Park March 24-27, 2009.

RMD staff participated on the conference planning committee. They recommended conference sessions, recruited speakers, developed workshops, planned tours, reviewed award nominations and helped publicize the event. In addition, staff will conduct conference sessions and workshops. For more information on the CRA, visit <http://www.cra-recycle.org/>.

Buying Recycled

RMD staff is working with DOC to promote buying recycled. Buying products made from recycled content generates demand for these materials, conserves natural resources and saves energy. They encourage environmentally preferable purchasing within the agency when possible. Examples of recycled content products include office paper, writing pads, file folders and other office supplies.

Other Activities

RMD program staff attended the National Recycling Coalition's (NRC) 26th Annual Congress & Expo in Pittsburgh, Pennsylvania, CRA Annual Conference and Trade Show in Raleigh, North Carolina and the SERDC Annual Conference and Trade Show in Point Clear, Alabama. By participating in these conferences, RMD program staff gained insight on recycling markets, strategies for increasing recovery rates, information on recycling policies and incentives and the opportunity to build partnerships.

Recycling Market Development Staff Affiliations

- CRA
- CRA Midlands Networking Council
- Keep the Midlands Beautiful
- National Brownfield Association-South Carolina Chapter
- NRC
- New Carolina
- South Carolina Biomass Council
- SERDC
- South Carolina Resource Conservation Challenge Task Force
- Solid Waste Advisory Council
- South Carolina Waste Tire Committee
- United States Green Building Council-South Carolina Chapter
- Advisory member to Sustainability Committee of Swamp Fox

2008 RECYCLING RELATED ANNOUNCEMENTS



The recycling industry is continuing to be an economic engine for the state. In 2008, South Carolina's recycling industry had a great year in capital investment and new jobs. The industry generated over **\$1.1 billion** in capital investment and created nearly 1,400 jobs through the generation of new businesses and the expansion of existing ones. These numbers accentuate the current **\$6.5 billion** economic impact and approximately 37,000 jobs attributed to the recycling industry.

The following businesses help contribute to South Carolina's 2008 recycling industry economic success.

Shaw Industries Group Inc.

DOC and the Central South Carolina Alliance joined Shaw Industries Group Inc. in announcing the company's intention to expand its manufacturing operations in Lexington County, South Carolina. Over the next five years Shaw Industries Group Inc. anticipates investing approximately \$60 million and expects to create 350 new jobs as a result of the investment.

Please view the press release located in Appendix B on page 47.

Carolina AAC LLC

DOC and the Marion County Economic Development Commission announced that Carolina AAC, LLC will locate a manufacturing facility in Marion County. The company will produce Autoclaved Aerated Concrete (AAC) for commercial and residential use. This \$17 million investment is expected to create up to 40 jobs locally. Additionally, the company will be a catalyst for creating numerous "green" construction jobs throughout the Southeast.

Carolina AAC LLC's manufacturing plant is a natural extension of its marketing, distribution, installation and development work related to AAC. AAC is a specialized

lightweight masonry building material often specified by architects for use in the construction of commercial and residential structures. AAC offers an energy-efficient and fire resistant alternative to standard building materials used in the construction of load bearing and non-load bearing wall systems.

Please view the press release located in Appendix C on page 49.

Williamsburg Recycling

DOC and the Williamsburg County Development Board announced that Williamsburg Recycling will establish operations in Williamsburg County. Williamsburg Recycling plans to invest approximately \$2.5 million and create up to 30 new jobs in the coming years.

Williamsburg Recycling will manufacture specialized organic compost and fertilizer produced from landfill-bound waste. The company's end product will be commercially viable, quality plant food and soil enhancer that offers better efficiencies than chemical fertilizers on the market today. The company will also take part in the development of organic growth enhancements for fiber, food and pharmaceutical products.

Please view the press release located in Appendix D on page 51.

Palmetto Renewable Energy

DOC and the SouthernCarolina Alliance announced that Palmetto Renewable Energy has completed a biomass fuel pellet plant in Allendale, South Carolina. The \$1.5 million investment is expected to bring 12 new jobs to the area.

Palmetto Renewable Energy will manufacture wood pellets for biomass energy and wood shavings for equine bedding. The company will later add algae production for cellulosic ethanol, which represents a further source of renewable energy. The slated five million gallon per year cellulosic ethanol plant will add another \$5.5 million investment into the existing site, adding another 22 jobs for construction and operation.

Please view the press release located in Appendix E on page 53.

Horsehead Corporation

DOC, Barnwell County Economic Development Corporation, the SouthernCarolina Regional Development Alliance and the Town of Snelling announced that Horsehead Corporation will locate its new facility in Barnwell County. Horsehead Corporation is North America's largest recycler of zinc-bearing materials, including electric arc furnace (EAF) dust generated by steel mills during the melting of recycled steel scrap. The company's \$87 million investment is expected to generate up to 65 new jobs.

Please view the press release located in Appendix G on page 56.

Rollcast Energy Inc.

DOC, Newberry County, and the Central South Carolina Alliance announced that Rollcast Energy Inc. will establish Loblolly Green Power, a new biomass facility in Newberry County, and Santee Cooper will purchase the 50 megawatts of renewable power that this new facility produces as a significant enhancement to the utility's existing renewable energy programs.

Loblolly Green Power will be the first such facility in South Carolina generating commercially available renewable power. The \$170 million investment is expected to generate 27 new permanent jobs and be operational by late 2011.

Please view the press release located in Appendix H on page 58.

Wellman Inc.

DOC and the Florence County Economic Development Partnership joined Wellman Inc. in announcing that the company has completed the sale of Wellman's Engineering Resins business and other assets located on its Johnsonville campus to a new company backed by an investor group led by J.H. Whitney & Co. and management. The new company will be known as Wellman Plastics Recycling and will operate businesses under both the Wellman Plastics Recycling and Wellman Engineering Resins names.

Wellman Plastics Recycling plans to invest \$3 million to retain the 163 employee workforce at Wellman's Johnsonville plant and create an additional 100 new jobs.

Please view the press release located in Appendix I on page 60.

CMC Steel South Carolina

DOC, Lexington County and the Central South Carolina Alliance announced that CMC Steel South Carolina will expand its operating facility in Cayce, South Carolina. CMC Steel South Carolina will invest approximately \$29.5 million to grow its steel mill in Lexington County.

Please view the press release located in Appendix J on page 63.

Sloan Construction Company Inc.

DOC and Union County announced that Sloan Construction Company Inc. will locate a new facility in Union County. The \$15 million investment is expected to generate up to 20 new jobs.

Sloan Construction Company Inc. is one of the largest heavy highway and general contracting companies in the Carolinas and Georgia. The company provides a full range of heavy construction services, from excavation and site work to asphalt paving and bridge construction.

Please view the press release located in Appendix K on page 64.

Nucor Steel

DOC, Darlington County Economic Development Partnership and Nucor Corporation announced the company's plans to invest \$45 million over the next five years at its Nucor Steel South Carolina Steel Mill located in Darlington, South Carolina. The project will include improvements to the existing steel mill facility such as upgraded equipment in the rolling mills and improvements to the scrap conveyor, alloy handling systems, ductwork, railroad tracks and cranes. Further investments will be made through the expansion of the existing baghouse, the acquisition of land and growth in the mill's special bar quality capabilities.

Headquartered in Charlotte, North Carolina, Nucor makes more steel in America than any other company. Nucor is North America's largest recycler.

Please view the press release located in Appendix L on page 65.

GOALS and OBJECTIVES

2009

RMDAC is on target for another successful year. In 2009, the council plans to continue working with its partners to promote the recycling industry. Much of this effort will be accomplished with the assistance of DOC, DHEC, New Carolina, RIG, and the CRA.

During the upcoming year, RMDAC will work with the Governor's Office to secure two new council members to represent the interest of the general public and municipalities. Chris Fisher who has a sound understanding of the glass industry has agreed to transfer from the general public representative to the glass industry representative.

RMDAC is partnering with DOC to create a new online database of recycling businesses and related companies. Utilizing the business assistance and referral services that RMDAC provides through the Smart Business Recycling program, this directory provides essential links between businesses, industries and local governments searching for markets for recyclables and the companies that accept the materials for processing and reuse. Being listed in this directory provides companies the opportunity to market and increase awareness of their services and/or products. Users will also be able to search the directory for other recycling resources around the state, including haulers, processors, end-users, exporters and recycling equipment suppliers. The anticipated launch date for the Recycling Business Directory is spring 2009.

The council will work with CRA through RIG to develop and apply for a South Carolina recycling license plate. RIG's Business Environment Committee will lead this effort and CRA will advance the application and processing fee. Proceeds from the license plates will be used to reimburse CRA and additional funds will assist recycling businesses with items such as recycling bins and equipment.

RMDAC will continue to work with New Carolina to promote RIG and seek additional committee members. This endeavor will be accomplished by marketing RIG through media releases, Web site placement, advertisements and presentations to relevant associations and conferences. A minimum of three RIG committee meetings will be held in addition to scheduled conference calls. These activities will help further the goals and objectives of the group as well as South Carolina's economy.

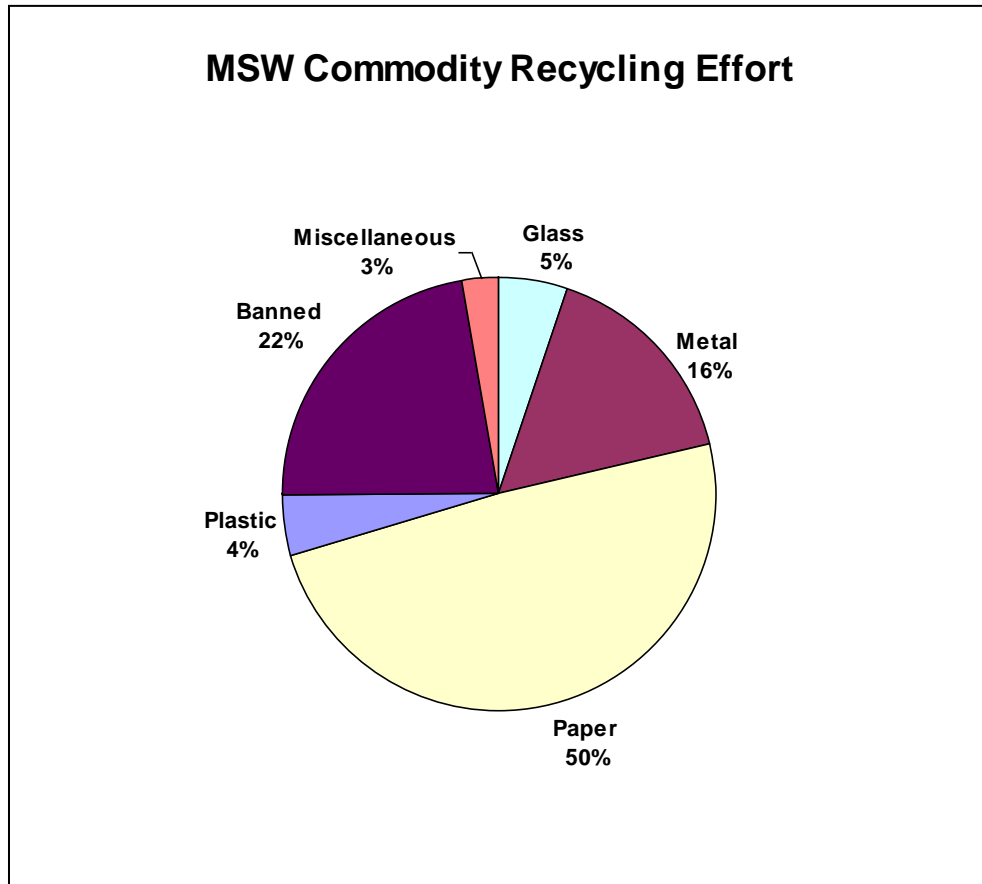
The council will continue to pursue marketing strategies that will assist in expanding the number of South Carolina recycling businesses and industry. In addition, RMDAC will conduct research, outreach and education that will help create new and emerging markets. Examples of these markets include carpet, electronic waste, and construction

and demolition. RMDAC will utilize research to expand recycling businesses such as waste tires used in crumb rubber.

The council and staff will continue its partnership with DHEC on the South Carolina Smart Business Recycling Program. This program provides education and resources to recycling businesses, industry, the public and other organizations interested in waste reduction and recycling. The program promotes the economic and environmental benefits of recycling through business and industry success stories. These stories provide information on the accomplishments of those businesses and industry committed to reducing the amount of material land-filled, utilizing recycled materials, reducing pollution, conserving natural resources and buying recycled.







SOLID WASTE RECYCLING EFFORTS

In 2008, South Carolina's recycling goal was 35 percent of the municipal solid waste stream (MSW). The actual recycling rate was 24.4 percent. Factors impacting this year's recycling rate include a drop in residential banned items and a reduction in reporting by DHEC approved tire processors and South Carolina companies that recycle.



MARKETS UPDATE

Market updates are provided by members of RMDAC. The markets update contains information on supply, demand and pricing. The following commodities are included in the updates:

Commodity Type		Description
Glass		Clear, brown, green
Metal		Ferrous, nonferrous
Paper		Newspaper, corrugated
Plastics		Polyethylene Terephthalate (PET), High-Density PolyEthylene (HDPE), clear and pigmented
Tires		Scrap tires
Used Oil		Oil, filters, bottles

FERROUS METAL

2008 Summary

The four-year run for ferrous scrap metal finally ended in 2008. New all-time highs were set over the summer but then the market crashed to a standstill by the end of the year.

Early in the year, it seemed like there was no ceiling for prices. Demand was strong as a weak dollar helped boost the domestic steel industry with record production of finished goods and a corresponding greater need for scrap metal to meet their melt requirements. At the same time, the supply of available material was tight after several years of high prices had cleared any backlog of obsolete scrap and the domestic industrial generation of scrap was only average, especially in the automotive sector. Scrap metal also found its way into containers that arrived with goods from Asian markets and needed to be filled for the return trip. This non-traditional transport of scrap elevated the supply and demand curve to an even higher point.

The housing crisis became a financial crisis which became an economic crisis. Seemingly overnight, the market for ferrous metal went from boom to bust. Prices peaked in July/August then reached bottom just about two months later. Steel mills saw their orders disappear as accessibility to credit evaporated. Operating rates were cut in half and most melted steel below 50 percent of capacity. Mills used inventory in stock rather than spend their limited cash on new material so that by November there was almost no trading of scrap metal and the industry fell silent. At the same time, China stopped buying just before the Olympics and never returned to the market. The demand for scrap was gone and prices dropped to the lowest levels in five years.



In December, prices bounced back somewhat to a level at which trading could resume but still well below price levels from the past several years. All commodities seem to suffer equally in one of the fastest economic downturns in history.

2009 Outlook

The consensus is that 2009 will be better than how 2008 ended, but when this improvement will occur remains elusive. With few signs of optimism on the horizon we can only push hopes to the second half of the year. Eventually, our economy will return to health and we will see ferrous metal get better too.

Future Trends

Ferrous metal is a valuable commodity traded across the world and it fluctuates in price as economic conditions change. When markets stabilize and capital becomes available we will likely see continued vertical integration as steel producers try to secure access to raw material and reduce this volatility in the marketplace.

RMDAC Action

RMDAC can promote the “green” design of materials making them suitable for recycling and encourage recycling activities that will increase the recovery of ferrous metal. Products should be manufactured with consideration for their end of life use and then processed in a manner that allows their reuse.

NONFERROUS ALUMINUM

2008 SUMMARY

Aluminum prices on the London Metal Exchange (LME) for calendar year 2008 averaged \$2,571.34 compared to \$2,736.29 in 2007.

Prices peaked in July 2008 at \$3,271 and then fell sharply during the second half, reaching a low of \$1,423. This was the largest percentage decline during the modern era of LME.

The driver behind the drop in prices was substantial demand destruction in the global markets as fallout of the sub-prime credit crisis. This event was most acutely concentrated in North America and Europe, where demand for primary metal fell 9 to 12 percent year on year.

According to Alcoa estimates, global primary aluminum demand declined an estimated 2.7 percent from 38 million metric tons to 37 million tons and is expected to further decline to 36.2 million tons during 2009.



North American shipments of mill products fell to 13.567 million pounds compared to 14.555 million pounds in 2007, reflecting a 6.8 percent decrease.

Substantial weakness in the automobile and light truck build rates weighed heavily on shipments to that sector. Total car and light truck builds for 2008 were 12.9 million units compared to 15.4 million units in 2007, a decline of 16.1 percent.

Production of primary aluminum in the United States was 2.6 million tons compared to 2.5 million tons during 2007. Output from secondary (scrap) sources was down to 1.4 million tons vs. 1.6 million tons last year, indicative of the weakness in die cast demand from the automotive market.

Aluminum recovered from scrap was estimated to be 3.6 million tons during 2008. Used beverage container (UBC) scrap collections were 1.4 billion pounds, down 4.1 percent from 2007. Prices for UBC fell sharply during the second half of the year, from a record \$1.05 per pound delivered mills to 35 to 39 cents per pound entering January.

2009 Forecast

LME and Midwest aluminum prices moved to five year lows as we entered January. The market is very concerned that demand destruction has not bottomed out and metal surpluses remain problematic. LME established a new all-time record for aluminum stocks in mid January, eclipsing the previous record of 2.6 million metric tons. Expectations are for this total to easily surpass 3 million tons before deliveries abate.

Virtually 100 percent of all global producers are operating with negative cash flows at prevailing prices of \$1,300 on LME. Consequently, there has been a rash of production curtailments announced, lead by China (3.2 million tons) and North American producers. In aggregate, over 6 million metric tons is scheduled to be taken off line in 2009 to restore balance to the global supply/demand equation.

Future Trends

While short term price action is very weak, analysts continue to believe medium and long term prospects for aluminum are positive. This belief is based on aluminum's inherent characteristics of strength and weight dovetailing well with current macro-economic trends toward energy conservation and the reduction of carbon emissions.

There is still a strong view that the demographics in Brazil, Russia, India and China and other emerging regions (Middle East) will develop strong significant growth. Per capita consumption in these countries remains low. Demand forecasts for 2018 still point to a compound annual growth rate of nearly 6 percent bringing global aluminum demand to 68 to 70 million tons.

Price forecasts for 2009 average 73 cents per pound on LME, with the average for 2010 at 86.5 cents per pound.

RMDAC Action

With an established recycling infrastructure in place, the council should continue to educate and encourage local governments, private citizens, community groups and industry to recover more aluminum and other non-ferrous metals. Aluminum can recycling enables charitable organizations and groups to earn funds to further local projects, such as school improvements, Boy or Girl Scout troop funding and "Cans for Humanity" national partnership between the Aluminum Association and Habitat for Humanity International. It's a win-win for the individual, community, business, industry and the environment.

GLASS

2008 Summary

Glass collected in South Carolina for recycling is sent to Strategic Materials, a glass processor, with locations in Georgia and North Carolina. Market prices average \$20 per ton for clear, \$11 per ton for brown and \$7 per ton for green. Strategic Materials also accepts unsorted three-mix glass in Raleigh, North Carolina. The charge for this mix is dependent upon the level of quality.



2009 Outlook

The market for glass cullet at container plants remains strong, driven by high energy costs, increased demand for glass containers and stiffer green house gas regulations. There is a renewed interest by container manufacturers to go "green" and increase post consumer content. Some manufacturers have as high as 50 percent post consumer content in new glass containers. Glass cullet demand has increased with fiberglass manufacturers because of high energy costs but also because of declining flat glass availability. The challenges with this market are tighter quality specs for the cullet. High fuel costs are affecting supply because of the higher cost of transporting unprocessed glass to processors. Some municipal recycling programs are feeling the crunch. Pricing should stay constant this year.

Future Trends

Fuel costs are also offsetting any chance of increased pricing. Supply also is affected by so-called "alternative uses" such as "alternative daily cover" at landfills. These uses are essentially end of life options rather than recycling.

Anticipated recovery of windshield glass, cathode ray tube glass and fluorescent light bulbs will increase. Also, new products made from glass are expected to be more available and received in the public markets.

RMDAC Action

RMDAC should continue to support programs that increase the overall recovery rate of recyclables in South Carolina as well as encourage communities to look at alternative markets for recovered glass.

PAPER

2008 Summary

Old Corrugated Cardboard (OCC) started the year out at \$115 per ton and finished in December at \$20 per ton. OCC was up to \$145 per ton in June and it was all downhill from there. The market started taking drops of \$10 to \$20 per ton monthly, going to \$95 per ton in October and then taking a \$45 per ton hit in November and finally finishing at \$20 per ton. Export and domestic demand hit all-time lows, as consumers were producing less and less. Linerboard and medium machines took extensive downtime in November and December.

News

For the second year in a row, news pricing was higher than OCC. January was at \$110 per ton going to a high at \$170 per ton mid-year and went down from there. News took a hit of \$95 per ton in one month and finished the year at \$25 per ton with little or no movement.

Office Paper

January started at \$160 per ton and quickly rose to \$225 per ton by June. A downhill slide started in August as decreases kept coming and it finished the year at \$100 per ton.

Mixed Paper

At prices of \$95 per ton in January and holding steady until October, this grade greatly affected the boom in news pricing. Mixed paper was in great demand, this demand taking away from a true #8 news pack. Mixed finished the year with a \$90 per ton drop and closed out at \$5 per ton.



2009 Outlook

Winter weather and mills taking downtime will greatly influence the market for all grades. Consumer spending is down, along with mill downtime and very slow export demand. Hopefully, there will be an upswing by the third quarter of 2009.

Future Trends


Mixed Paper: China and Asia will continue to pull from the northeast and west coast markets. Export demand for office paper will continue to grow as will domestic demand.

RMDAC Action

RMDAC will work to increase the recycling numbers in the state. The council will also continue to work closely with DHEC and CRA to increase collections and develop new markets.

PLASTICS

2008 Summary



According to recently published 2007 recycling rates from the National Association for PET Container Resources, 1.396 million pounds of PET bottles were recycled out of 5.683 million pounds of bottles sold for a recycling rate of 24.6 percent. The recycling rate rose 1.1 percent from 2006 recovery levels. Post consumer bottle collections were up with continued high demand both from the United States and China markets for raw material. Bale prices climbed throughout the year due to the steady increase in crude oil prices driving raw materials up. The export markets continued to pay \$.02 to \$.03 per pound higher for curbside bottles than domestic processors due to the high demand in China. Although Wellman and SE PET Resin Recyclers closed their operations in fourth quarter 2006, the market quickly absorbed any bottles available against both domestic and export strong demand.

2009 Outlook

Demand continued to remain strong for most of 2008 with all domestic reclaimers and export markets until the economy abruptly declined in the fourth quarter which was due to the worldwide financial crisis. The economic collapse quickly affected all commodity pricing and demand as consumers and businesses reacted to the change of much tighter credit restrictions.

Future Trends

The outlook going into 2009 remains at slower demand levels during the first quarter as consumer spending is still low during the current economic climate. However, demand should slowly recover during the year with the infusion of the planned economic stimulus package. The greatest emphasis now for collectors should be quality improvements as higher quality in the past has created a preference on demand and pricing by end users.

RMDAC Action

RMDAC will continue to work closely with DHEC and CRA to increase collections and develop new markets.

SCRAP TIRES

2008 Summary

According to RMD's annual Waste Tire Recycling Survey of DHEC-approved tire processors, the major portion of South Carolina waste tires was processed for tire-derived fuel (TDF). The survey of waste tire facilities and processors shows that 2.2 million South Carolina waste tires were recycled into a variety of products in 2008. This number includes more than 2 million post-consumer tires and over 140,000 post-industrial tires. The recycled products include civil engineering applications, TDF and crumb rubber. A copy of the scrap tire survey is located in Appendix O on page 69.

2009 Outlook

In 2009, the markets for scrap tires will include mulch, playground and sports turf. The markets for TDF and civil engineering applications are anticipated to remain constant, and cement kilns are expected to continue to be a major end-use market. Markets for tire-derived aggregate should remain stable in 2009. Civil engineering application projects facilitated by ARTS should assist in creating a steady market for processed crumb rubber.

Future Trends

Scrap tires will continue to play a key role in the production of TDF and civil engineering applications. The promotion of crumb rubber in rubber, plastic and rubber-plastic materials to manufacture products should help this market expand. In addition, providing education and outreach on the environmental and economic benefits of crumb rubber will also help this market grow.



RMDAC Action

The council will help promote the use of crumb rubber through its crumb rubber initiative. RMDAC will continue to partner with DHEC and ARTS to support existing scrap tire markets and provide education on the scrap tire industry.

USED OIL

2008 Summary

The statewide used motor oil recycling program targeting do-it-yourselfers (DIYers; those who change their own oil) continues to flourish. Through a combination of educational programs, technical assistance and grant funding for local governments, South Carolina has developed one of the nation's most comprehensive used motor oil recycling programs for DIYers.

According to figures compiled by DHEC, DIYers recycled more than 1 million gallons of used motor oil in 2007. This marks the ninth consecutive year that more than 1 million gallons were collected. Overall, more than 14 million gallons have been collected from DIYers since used motor oil recycling efforts began in South Carolina in 1990. Figures for 2008 were not available when this document was prepared.

The recycling of used motor oil filters reflects a significant environmental protection program considering that each filter may contain from four ounces to one quart of oil if not properly drained. Most counties collect used motor oil filters from DIYers for recycling. Many of these counties collect and market used motor oil filters with large appliances and/or other metals. With this being the case, not all used motor oil filters that are being recycled are being counted directly. As a result, numbers are not available to measure used oil filter recycling efforts.

The recycling of motor oil bottles also offers an important environmental protection program considering that they can contain up to an ounce of oil each if not thoroughly drained. Most counties collect and market motor oil bottles with other pigmented HDPE plastic. As a result, numbers are not available to directly measure motor oil bottle recycling efforts.

Introduced in January 2000, DHEC continues to offer the "Green Driver Project" that targets students in high school driver education classes. The project stresses the environmental impact of driving and includes information on recycling used motor oil, filters and bottles, energy conservation, ground-level ozone prevention and other environmental tips. The project serves as a lifelong lesson in environmentally responsible driving. Since the project began, DHEC staff made 2,136 classroom presentations to 99,287 students. "DHEC 1: Behind the Oil Change," a video chronicling the life of a driving teenager and the consequences of his decision to improperly dispose of his used motor oil, debuted in summer 2002. The video has been extremely well accepted and received an In-Show Award that honors excellence in advertising and public relations. The video also won an Emmy Award from the National Academy of Television Arts and Sciences. In addition, DHEC set up a partnership with Palmetto Pride to add a litter component, including litter laws and enforcement, beginning in 2002 to the project.

2009 Forecast

The amount of used motor oil, bottles and filters collected for recycling should continue to grow in 2009. The priorities of DHEC regarding its used motor oil recycling program are described below.

- To continue to collect motor oil bottles. Most counties are using oil drain racks to drain the bottles and make them easier to process. Once drained, the motor oil bottles can be mixed with other HDPE plastics. This makes it easier to market the motor oil bottles. DHEC will continue to encourage all counties to use the oil drain racks.
- To continue to expand the farmer oil collection program by adding collection tanks where needed. There are currently 57 farmer oil collection sites in 40 counties. Two more counties will be setting up tanks in fiscal year (FY) 2009 (July 1, 2008 – June 30, 2009). Each of the tanks holds at least 550 gallons of used motor oil and is fitted with a pump and hose to make it easier for farmers to recycle up to 55 gallons of used motor oil at one time.
- To continue to expand the oil/gasoline mixture collection program by adding collection tanks where needed. There are currently 74 oil/gasoline mixture collection sites in 40 counties. Three other counties will be setting up tanks in FY 2009. The oil/gasoline mixture tanks typically hold 500 gallons and are designed to accept motor oil, gasoline and oil/gasoline mixtures from lawn equipment and recreational vehicles.
- To secure and maintain markets or other uses for used motor oil, bottles and filters.

Future Trends

DHEC will continue to provide grant funding to local governments to set up, maintain and improve used motor oil recycling programs and continue its statewide awareness campaign on used motor oil recycling including the national award winning “Recycle Guys” public service announcements and the “Green Driver Project.”

RMDAC Action

RMDAC should continue promoting, supporting and securing markets for the state’s used motor oil recycling program.

APPENDICES

APPENDIX A

Council Members	Representing
Gerry Fishbeck, Chair	Recycling Industry
Ronnie Grant, Vice Chair	Paper Industry
Donna London	Higher Education Research
Chris Fisher	Glass Industry
Lin Longshore	Petroleum Industry
Norman Chandler	Solid Waste Collection and Disposal Industry
Hari Krishnan	Tire Industry
Michael Baird	DOC
William “Larry” McCaskill	Aluminum Industry
Art Levy	Scrap Metal Industry
Phil Ammons	Plastics Industry
Victor Carpenter	County Government
Roger LeDuc	Municipalities
Vacant	General Public
Staff Members	Representing
Chantal Fryer	DOC
Tonya Lott	DOC
Pat Burton	DOC

APPENDIX B

Shaw Industries Group, Inc. to Expand its Lexington County Operations

March 12, 2008

The South Carolina Department of Commerce and the Central S.C. Alliance today joined Shaw Industries Group, Inc. in announcing the company's intention to expand its manufacturing operations in Lexington County, South Carolina. Over the next five years Shaw Industries Group, Inc. anticipates investing approximately \$60 million and expects to create 350 new jobs as a result of the investment.

Richard Stuckey, Regional Director for Shaw Industries Group, commented, "We are pleased to announce the expansion of our Lexington County manufacturing facility. This investment demonstrates our commitment to the growth of our business presence in South Carolina and will provide career opportunities for our current and future employees. Shaw Industries Group currently has over 1,500 employees in South Carolina manufacturing operations that produce nylon carpet fibers to support our future growth. With the aid and support of Lexington County and South Carolina economic development personnel, we were able to complete development and approval of this project quickly and effectively. We will continue to look for opportunities to grow our business investment in South Carolina to meet our customers' needs."

Shaw Industries purchased the former Allied Signal/Honeywell facility, where it currently operates, two years ago. Shaw Industries will upfit an unused portion of the facility for its polymer chip production which will be used to generate carpet yarn. The company currently employs more than 400 people at its Lexington County facility.

"Today's announcement is another sign that our efforts to improve the economic soil conditions are working to grow existing businesses and create new jobs for South Carolina. We remain committed to continuing to improve the state's business climate to encourage economic growth and attract new investments to the state," said Gov. Mark Sanford.

"Shaw Industries is the world's largest carpet manufacturer. It is a company with a recognized commitment to customer satisfaction, innovation, and strong corporate citizenship. Their decision to expand in South Carolina is evidence that our state's business-friendly climate is again working to grow businesses and create opportunities for more South Carolinians. Thanks to the team effort of local and state officials, Lexington County will benefit from this investment," said Joe Taylor, Secretary of Commerce.

"Today's highly competitive global market place is recognized by Lexington County Council and we are committed to helping existing business and industry with their growth plans.

We are very appreciative of Shaw Industries making the decision to expand and create a significant number of new jobs for the citizens of this region," said Lexington County Council Chairman Billy Derrick. Central South Carolina Alliance Chairman George Bullwinkel Jr. said,

“Today’s significant announcement by Shaw Industries Group to expand its Lexington County facility is great news for the citizens of Central South Carolina. The economic strength of our 12-county region comes from the existing industry base and the continued investment by these companies. Shaw Industries is a recognized leader in being eco-friendly towards our environment and we welcome companies that have these types of corporate principals and values.”

About Shaw

Shaw Industries, Inc., a subsidiary of Berkshire Hathaway, Inc., is the world’s largest carpet manufacturer and a leading floor covering provider with more than \$5 billion in annual sales and approximately 31,000 associates. Headquartered in Dalton, Ga., the company manufactures and distributes carpeting, rugs, hardwood, laminate and ceramic tile for residential and commercial applications worldwide. A recognized leader in environmental stewardship, Shaw has implemented hundreds of sustainability initiatives and cradle-to-cradle design solutions, collectively termed the Shaw Green Edge. For more information, visit www.shawfloors.com.

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APPENDIX C

Carolina AAC, LLC to Locate New Facility in Marion County

May 16, 2008

The South Carolina Department of Commerce and Marion County Economic Development Commission today announced that Carolina AAC, LLC will locate a manufacturing facility in Marion County where the company will produce Autoclaved Aerated Concrete (AAC) for commercial and residential use. This \$17 million investment will create up to 40 jobs locally. Additionally, the company will be a catalyst for creating numerous “green” construction jobs throughout the Southeast.

Carolina AAC, LLC’s manufacturing plant is a natural extension of its marketing, distribution, installation, and development work related to Autoclaved Aerated Concrete (AAC). AAC is a specialized lightweight masonry building material often specified by architects for use in the construction of commercial and residential structures. AAC offers an energy-efficient and fire resistant alternative to standard building materials used in the construction of load bearing and non-load bearing wall systems.

“Many municipalities are mandating that commercial and residential structures meet stringent environmental standards as part of LEED (Leadership in Energy and Environmental Design), Energy Star, or similar certification. In fact, South Carolina became the most recent state to make LEED certification compulsory for all publically funded projects. Having a local source of a “Green” material supply that will reduce energy cost by as much as 40% should be welcomed news for customers looking to build homes, schools, libraries, hospitals or other structures. AAC is one of only a few construction materials to combine environmental certification with fire safety,” said Charles Paterno, Managing Member, Carolina AAC. “We are pleased to open our first manufacturing operation in Marion County; and we appreciate the assistance local and state officials have demonstrated.”

Although relatively new to the United States, AAC has been a preferred building material in Europe for more than 80 years. Beyond the product’s energy efficient, fire resistant, and structural attributes, it also offers significant sound proofing and mold resistance.

“Carolina AAC’s decision to locate in South Carolina is another positive sign that our efforts to improve the state’s economic soil conditions are working to promote business growth throughout the state. We remain committed to continuing these efforts to keep creating jobs, attract new investment, grow existing businesses, and create opportunity in Marion County and throughout the state,” said Gov. Mark Sanford. The company’s site in Marion County will service customers in approximately a 300-mile radius focusing upon the Carolinas, Virginia, and surrounding states. “Carolina AAC is bringing to the state an innovative product to meet its customers’ needs while providing an energy efficient alternative to commonly-used building supplies. South Carolina’s strategic location and quality infrastructure will allow Carolina AAC to service its customers throughout the Southeast. The company is a welcome addition to the state’s business community and we look forward to a long and mutually beneficial relationship in the years ahead,” said Joe Taylor, Secretary of Commerce.

“We are excited about Carolina AAC choosing Marion County for their new manufacturing facility. This is a top quality company that provides products which are greatly needed in the Green construction industry. The job opportunities to be created will have a significant positive impact on our community,” said Frank Jones, Executive Director, Marion County Economic Development Commission.

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APPENDIX D

Williamsburg Recycling to Locate Manufacturing Facility in Williamsburg County

June 20, 2008

COLUMBIA, S.C. – June 20, 2008 – The South Carolina Department of Commerce and the Williamsburg County Development Board today announced that Williamsburg Recycling will establish operations in Williamsburg County. Williamsburg Recycling plans to invest approximately \$2.5 million and create up to 30 new jobs in the coming years.

Williamsburg Recycling will manufacture specialized organic compost and fertilizer produced from landfill-bound waste. The company's end product will be commercially viable, quality plant food and soil enhancer that offers better efficiencies than chemical fertilizers on the market today. The company will also take part in the development of organic growth enhancements for fiber, food and pharmaceutical products.

"The developers and investors of Williamsburg Recycling have asked that I take this opportunity to give a special thanks to our S.C. State Department of Commerce, Williamsburg County Development and all our local political leaders who have worked hard for our state and community and continue to dedicate themselves to the economic development of our region," said J.E. Steele, Jr., Board Member of Williamsburg Recycling.

"Williamsburg Recycling will produce a specialized product that will be beneficial to the Williamsburg County area where agriculture is a vital element of the local economy. The company's decision to expand its operations in South Carolina is another sign that the state's business environment is working to encourage growth and job creation. Thanks to the efforts of state and local officials, Williamsburg County will benefit from this investment," said Joe Taylor, Secretary of Commerce.

Williamsburg Recycling will utilize agricultural waste streams paired with landfill waste to create this specialized organic compost. The end product will be utilized in several applications, including, but not limited to, heavy agriculture, commercial, road projects, domestic use and organic farming.

"We are certainly pleased that Williamsburg Recycling has decided to locate in Williamsburg County. We welcome this company and the jobs that they will create for our citizens," said Senator Yancey McGill.

"Once again, this news is evident of how the South Carolina Department of Commerce, our delegation and Williamsburg County government continue to work with companies to locate in Williamsburg County. We welcome Williamsburg Recycling to our community and the new jobs that it will bring," said State Representative Kenneth Kennedy. "We are extremely pleased that Williamsburg Recycling has chosen Williamsburg County to locate its new facility. The creation of these new jobs is much appreciated. We welcome them to our community," said Stanley Pasley, Williamsburg County Supervisor and County Council Chairman. Williamsburg County Councilman Harry Darby added, "This investment of our

newest industry, Williamsburg Recycling, is exciting news. It presents a tremendous opportunity for our citizens. We welcome them to our industrial community.”

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APPENDIX E

Palmetto Renewable Energy Completes Manufacturing Plant in Allendale County

July 28, 2008

COLUMBIA, S.C. – July 28, 2008 – The South Carolina Department of Commerce and the SouthernCarolina Alliance today announced that Palmetto Renewable Energy has completed a biomass fuel pellet plant in Allendale, South Carolina. The \$1.5 million investment is expected to bring 12 new jobs to the area.

“This new facility will help us meet our customers’ needs and allow us to continually expand our operations,” said Mark Vaughn, co-owner of Palmetto Renewable Energy. “We are pleased to have our plant in Allendale County and appreciate all the support we have received and look forward to being a part of the business community in South Carolina.”

Palmetto Renewable Energy will manufacture wood pellets for biomass energy and wood shavings for equine bedding. The company will later add algae production for cellulosic ethanol, which represents a further source of renewable energy. The slated five million gallon per year cellulosic ethanol plant will add another \$5.5 million investment into the existing site, adding another 22 jobs for construction and operation.

“Palmetto Renewable Energy seeks to capitalize on the new energy technologies and developing sources of renewable fuels. The company’s decision to locate its plant in South Carolina speaks to the strength of our workforce, the state’s business-friendly climate and the innovative manufacturing taking place here. Thanks to the team effort of state and local officials, this investment will positively impact Allendale County,” said Joe Taylor, Secretary of Commerce.

"We welcome Palmetto Renewable Fuels to the SouthernCarolina region's growing cluster of alternative energy industries," said Danny Black, president of the SouthernCarolina Alliance. "This company is an excellent example of the diversification and expansion opportunities for both existing and new industries in our area. We congratulate Brabham Oil and Palmetto Renewable Fuels for their innovation and entrepreneurship."

Palmetto Renewable Energy Inc. is a joint venture located in Martin, South Carolina and co-owned by Mark Vaughn and Brab McCully. The ethanol manufactured will be marketed by Brabham Oil Company located in Bamberg, South Carolina.

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APPENDIX F

S.C. Recycling Businesses Recognized for Achievements

September 23, 2008

COLUMBIA, S.C. – September 23, 2008 – The South Carolina Recycling Market Development Advisory Council and the S.C. Department of Commerce recently recognized the achievements of five recycling businesses for their impact on South Carolina's environment, communities and economy. The Recycling Cluster Forum, held on September 8 in Greenville at the Michelin Conference Center, provided an opportunity for recycling businesses and industry to network and plan the strategic direction of the recycling industry. The following businesses were recognized for achievements in recycling:

Best Small Recycling Business – A Recycling Center, Columbia

A Recycling Center was established in 2001 as a direct from the public collector of electronics and scrap metal. In 2007, A Recycling Center recycled over 4.5 million pounds of metal and pumped more than \$2.5 million into the local economy. Between 2007 and 2008, the company doubled the size of its facility with the addition of a warehouse. A Recycling Center is a strong believer in using post-consumer recycled content products and invites Columbia area businesses to utilize their paper recycling container.

Best Medium Recycling Business – Sloan Construction Company Inc., Duncan

Sloan Construction Company recycled approximately 18 million pounds of hot mix asphalt during 2007 saving almost 17 million pounds of crushed stone from being extracted from local quarries. This recycling effort saves 108,000 gallons of liquid asphalt per year, reducing dependence on foreign oil. At each of its five asphalt plants, Sloan Construction purchased 360,000 gallons of both recycled and renewable fuels for a significant reduction on total foreign oil usage.

Best Large Recycling Business – CMC Steel of South Carolina, Cayce

CMC Steel of South Carolina is a steel mini-mill that recycles almost 700,000 tons of scrap metal a year into valuable new steel products for the construction industry. In 1999, the company established a Solid Waste Task Force to assist with reducing the amount of waste being disposed by the mill. Since the creation of this task force, CMC Steel of South Carolina has recycled over 1.4 billion pounds of scrap metal, 240,000 pounds of pallets, 33,000 pounds of cardboard and 12,000 pounds of #2 plastic bottles.

Best Industry Recycling Program – Alcoa Mt. Holly, Goose Creek

Alcoa Mt. Holly began in 1990 with the collection of office paper, newspaper, magazines, cardboard, aluminum cans and scrap metal. Since then, collections have expanded to include batteries, printer cartridges, plastics and many other recyclable items. The company currently achieves greater than 77 percent reduction in waste to landfill in the last five years and is working towards the corporate goal of zero land-filled waste.

Recycler of the Year – Milliken & Company, Spartanburg

Milliken & Company is one of the world's largest privately held textile and chemical companies. Milliken has taken aggressive action to meet its goal of zero waste to landfill

worldwide and in 2007 reused or recycled 78 percent representing 71,552,000 pounds. Worldwide, less than one percent of Milliken's total waste stream is land-filled-only. More than 99 percent of solid waste goes to beneficial applications such as reuse, recycling and boiler fuels.

In an effort to further grow the recycling industry and increase recycling among the state's businesses, the Department of Commerce joined the Department of Health and Environmental Control (DHEC) in launching the S.C. Smart Business Recycling Program last year. The program partners include three DHEC programs – the Center for Waste Minimization, Small Business Environmental Assistance Program and Office of Solid Waste Reduction and Recycling – and the S.C. Department of Commerce's Recycling Market Development Program. The program offers free, confidential and non-regulatory assistance to businesses, non-profits, governments and other organizations. Businesses interested in more information about the program can call 1-800-768-7348 or visit www.scdhec.gov/smartbusiness.

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APPENDIX G

Horsehead Corporation Announces New Facility in Barnwell County

September 24, 2008

COLUMBIA, S.C. – September 24, 2008 – The South Carolina Department of Commerce, Barnwell County Economic Development Corporation, the Southern Carolina Regional Development Alliance and the Town of Snelling today announced that Horsehead Corporation will locate its new facility in Barnwell County. Horsehead Corporation is North America's largest recycler of zinc-bearing materials, including electric arc furnace (EAF) dust generated by steel mills during the melting of recycled steel scrap. The company's \$87 million investment is expected to generate up to 65 new jobs.

"We are pleased to announce plans for a new facility in Barnwell County. This investment presents a great opportunity for Horsehead to provide services in a more cost-effective manner to existing customers and to reach out to new customers in the region. Barnwell County offers us a business-friendly environment, strong workforce and the solid infrastructure support that we need. We appreciate all the help we've received from state and local officials to make this announcement possible," said Jim Hensler, Horsehead's President & CEO.

The facility is the first greenfield project for Horsehead Corporation. The company has a long-term contract in place with Nucor Steel to recycle their EAF dust, a byproduct of steel production, from Nucor's three facilities in the Carolinas. Horsehead Corporation also serves existing South Carolina customers, selling zinc oxide to Michelin and Bridgestone and zinc metal to Trinity Industries.

"Today's announcement is another sign that our efforts to improve the state's economic soil conditions are working to attract investment and jobs throughout South Carolina including smaller communities in our state. As well, Horsehead's decision to locate and make a significant investment in Barnwell County is an incredible compliment to the area's workforce. We remain committed to continuing our efforts to create an environment that will promote economic growth, job creation and opportunity for more South Carolinians," said Gov. Mark Sanford.

"Horsehead Corporation is North America's largest recycler of zinc-bearing materials. The company and its predecessors have been an industry leader and innovator for over 150 years. Horsehead Corporation's decision to locate here is a strong testament to South Carolina's skilled workforce and business-friendly climate. Thanks to the team efforts of state and local officials, Barnwell County will benefit from this investment now and in the future," said Joe Taylor, Secretary of Commerce. "We welcome Horsehead Corporation, a leading manufacturer in their field and an asset to our industrial community. We are excited about the job creation and capital investment they're making in this project, which will benefit the people of our entire region. We are grateful to those at the state and local level who worked hand in hand with us to bring this company to the S.C. Advanced Technology Park," said Danny Black, president, Southern Carolina Alliance.

“Horsehead Corporation’s announcement today to locate their recycling facility in Barnwell County is another example of how successful the combined efforts of the Barnwell County Economic Development Corporation and the SouthernCarolina Alliance can be in bringing significant capital investment and job creation to not only Barnwell County, but the entire SouthernCarolina region. We are tremendously pleased they have chosen this area for their latest expansion as this represents one of the most significant capital investments in Barnwell County in recent years. We are proud to welcome Horsehead to our corporate community, where they will join many other nationally and internationally recognized companies that call Barnwell County home,” said Marty Martin, executive director, Barnwell County Economic Development Corporation.

“Successful economic development recruiting involves the combined efforts of many. Playing important roles in landing this project were representatives from the Town of Snelling, Barnwell County Council, SouthernCarolina Alliance, the Department of Commerce and the Barnwell County Economic Development Corporation. A special thank you also goes out to Barnwell County’s 2008 Ambassador for Economic Development, John Boyd, President of Augusta Fiberglass Coatings Inc. for his assistance in making this announcement possible. We enthusiastically welcome a company of Horsehead's caliber to Barnwell County and the region,” said Pete Grady, chairman, Barnwell County Economic Development Corporation.

“We are pleased that Horsehead Corporation has chosen Barnwell County as the location for its newest facility and appreciate the efforts of all of those involved in making this happen,” said Lowell Jowers, chairman, Barnwell County Council.

“The Town of Snelling welcomes Horsehead Corporation and looks forward to the capital investment and jobs they will bring to this area,” said Snelling Mayor Tim Moore.

Horsehead Corporation, a wholly-owned subsidiary of Horsehead Holding Corp. (NASDAQ: ZINC), is a leading U.S. producer of specialty zinc and zinc-based products and among the world’s largest recyclers of zinc-bearing materials. Headquartered in Pittsburgh, PA, Horsehead employs over 1,000 people and operates six facilities throughout the U.S. Visit www.horsehead.net for more information.

Individuals interested in pursuing job opportunities with Horsehead Corporation can contact the Barnwell County Career One-Stop Center (248 Wall Street, Barnwell 29812, 803-259-7116).

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APPENDIX H

Rollcast Energy and Santee Cooper Plan New Biomass Facility in Newberry County

October 07, 2008

COLUMBIA, S.C. – October 7, 2008 – The South Carolina Department of Commerce, Newberry County, and the Central S.C. Alliance today announced that Rollcast Energy Inc. will establish Loblolly Green Power LLC, a new biomass facility in Newberry County, and Santee Cooper will purchase the 50 megawatts of renewable power that this new facility produces as a significant enhancement to the utility’s existing renewable energy programs.

Loblolly Green Power will be the first such facility in South Carolina generating commercially available renewable power. The \$170 million investment is expected to generate 27 new permanent jobs and be operational by late 2011.

“Rollcast is pleased to announce the location of Loblolly in Newberry County. Our goal is to produce sustainable, green power for South Carolina using the local resource of woody biomass. This area of the state offers very skilled forestry management, forestry operations and recycling companies and we are excited to play a role in the sustainable growth of these industries. We appreciate all the support we’ve received from state and local economic development officials, the State Forestry Commission and Santee Cooper,” said Penn Cox, President of Rollcast Energy.

Rollcast will build and operate a facility in Newberry County to produce electricity from biomass, a clean, renewable resource when used for energy production. Biomass is the oldest form of renewable energy and provides a cost-competitive alternative to fossil fuel-fired plants. Other benefits include: reduced emissions, increased energy security and reduced waste as biomass currently buried in landfills can be recycled to generate electricity.

“Rollcast Energy is a leader in the clean-technology energy industry, with an expertise in developing biomass-fueled power plants. Reliable energy is a critical component of our state’s future development and economic growth. This partnership between Rollcast Energy and Santee Cooper will further the state’s role in renewable energy generation while helping us meet energy demands locally. Thanks to the team effort of state and local officials, Newberry County and South Carolina will benefit from this investment now and in the future,” said Joe Taylor, Secretary of Commerce.

The Newberry plant, Loblolly Green Power, will generate biomass from area logging residues and urban wood debris.

“Santee Cooper has been South Carolina’s leader in renewable power generation since 2001, when we first started generating electricity from renewable landfill gas,” said Lonnie Carter, president and chief executive officer of the state-owned utility. “We are pleased to be working with Rollcast, a leader in the biomass field. This venture lets us significantly grow our renewable portfolio, helping us move towards our 2020 goal of generating 40 percent of our energy through non-greenhouse gas emitting resources, renewables, conservation and

energy efficiency. And it continues our tradition of meeting the state's energy needs in an environmentally responsible way."

Since the fuel for biomass plants is produced locally, states using biomass can create more jobs in the community compared with a typical fossil fuel plant. The Newberry facility is expected to require 27 new permanent jobs with up to an estimated additional 200 jobs that could be generated as a result of contractor services and construction. Construction is scheduled to begin in June 2009 and the plant is scheduled for energy production by 2011.

"Newberry County's investments in economic development continue to return benefits to our citizens," commented County Council Chairman Henry Summer. "Today's announcement will bring a substantial capital investment and good paying jobs to the community. We welcome Loblolly Green Power to Newberry County and look forward to supporting their success."

Central S.C. Alliance Chairman Jim Apple stated, "What a significant day for Newberry County and the Central S.C. Region as we welcome this major announcement by Rollcast Energy and Santee Cooper. The Alliance is pleased that Newberry County had the perfect industrial site to meet the needs of one of nation's leading renewable energy companies. Today's announcement is a solid indicator that the Central S.C. region is a premier location when it comes to attracting next energy related companies. We certainly appreciate the continued support of South Carolina Department of Commerce Secretary Joe Taylor and staff for their efforts in assisting our team."

Once operations begin, the biomass plant will produce approximately 50 megawatts, enough to supply power to 25,000 homes.

Rollcast Energy, based in Charlotte, N.C., develops, owns and operates renewable energy power plants that use wood or biomass for fuel. The company provides customers with low-cost, environmentally benign electricity that helps reduce the nation's dependence on imported energy and provides sustainable jobs in local communities. For more information, please visit www.rollcastenergy.com.

Santee Cooper is South Carolina's state-owned electric and water utility and the state's largest power producer, supplying electricity to more than 163,000 retail customers in Berkeley, Georgetown and Horry counties, as well as 29 large industrial facilities, the cities of Bamberg and Georgetown, and the Charleston Air Force Base. Santee Cooper also generates the power distributed by the state's 20 electric cooperatives to more than 700,000 customers in all 46 counties. Approximately 2 million South Carolinians receive their power directly or indirectly from Santee Cooper. The utility also provides water to 137,000 customers in Berkeley and Dorchester counties, and the town of Santee.

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APPENDIX I

Dept. of Commerce and Florence County Secure Purchaser of Wellman's Johnsonville Facility

October 23, 2008

COLUMBIA and FLORENCE, S.C. – October 23, 2008 – The South Carolina Department of Commerce and the Florence County Economic Development Partnership joined Wellman Inc. in announcing that the company has completed the sale of Wellman's Engineering Resins business and other assets located on its Johnsonville campus to a new company backed by an investor group led by J.H. Whitney & Co. and management. The new company will be known as Wellman Plastics Recycling and will operate businesses under both the Wellman Plastics Recycling and Wellman Engineering Resins names.

Last month, Wellman announced the Johnsonville plant would be closing, impacting 163 employees. Together the Department of Commerce and Florence County worked to secure a purchaser of the Johnsonville facility. As part of the agreement, the Department of Commerce will provide a \$500,000 Community Development Block Grant to Florence County for onsite improvements for the former Wellman facility in Johnsonville.

Wellman Plastics Recycling plans to invest \$3 million to retain the 163 employee workforce at Wellman's Johnsonville plant and create an additional 100 new jobs.

Mark Ruday, Wellman Inc.'s Chief Executive Officer, stated, "We are very pleased to have completed the sale of our Engineering Resins Division and the entire Johnsonville site. Today marks an important step forward for both the new organization in Johnsonville and Wellman Inc.'s remaining chemical based businesses. Most importantly, I am pleased to have reached a conclusion that not only is in the best interest of Wellman Inc.'s various stakeholders but also the employees in Johnsonville and the surrounding community."

Robert Fotsch, CEO of the newly formed Wellman Plastics Recycling, said, "We are very pleased to have been able to complete the purchase of Wellman's Johnsonville facility today and we look forward to continuing the Wellman name and tradition as a leader in plastic recycling. This transaction would not have been possible without the commitment of our equity partners, the City of Johnsonville, Joe King (Florence County Economic Development Partnership), Daniel Young (S.C. Department of Commerce), Ken Ard (Florence County Council) and all our dedicated employees at the Johnsonville site. I would like to take a moment and personally thank each of you for all the hard work you put into making this project a success. With the commitment of our equity partners and sound financial structure, we plan to make the necessary investments to support the high quality team in Johnsonville and reestablish Johnsonville's leadership in Engineering Resins so that it remains a critical partner with companies in the automotive and other industries." Robert Fotsch will maintain his position as CEO of New Horizons Plastics Recycling, a Greenville-based PET recycling business.

“The purchase of this facility is an incredible compliment to the workforce in Florence County. As well, this news demonstrates that efforts made to establish a business-friendly environment are working to continually attract investment and opportunity to our state,” said Gov. Mark Sanford.

“The purchase of Wellman’s Johnsonville facility by one of the largest producers of recycled PET brings great opportunity to the current workforce at the Wellman site and the future economic growth of Florence County. Today’s news is a positive reflection of the strength of South Carolina’s workforce and business climate. Thanks to the team efforts of the state and local officials, this investment preserves employment for 163 hardworking South Carolinians and brings new opportunity to the community,” said Joe Taylor, Secretary of Commerce.

“On behalf of the state of South Carolina, I would like to thank J. H. Whitney & Co. for their commitment to Florence County,” said Senator Hugh K. Leatherman. “As state senator and a resident of Florence County, I am thrilled to see retention of current employees, new capital investment and an increase in jobs for the citizens of this fine county.”

“The purchase of Wellman’s Johnsonville facility is a testament to Florence County’s pro-business climate. Our skilled labor force is dedicated to excellence and continued growth in Florence,” stated Dr. Charles Gould, Chairman, Florence County Economic Development Partnership and President, Florence-Darlington Technical College.

“Wellman has been a part of the fabric of our county for many decades. The purchase of this facility is great news for the citizens of Florence County. Once again, Florence County has proven its dedication to grow and prosper economically,” stated Florence County Council Chairman, K.G. “Rusty” Smith.

“It is a great day for Johnsonville and the citizens of Florence County. I am confident that J.H. Whitney & Co. will be pleased with their investment in Johnsonville,” said Florence County Councilman Ken Ard.

About the assets at Wellman’s Johnsonville facility

The Engineering Resins business has the capacity to produce over 70 million pounds per year of engineered plastics, which is used in a wide variety of applications including automotive, lawn and garden, and electronics. Other assets include a 235 million pound polyester staple fiber plant and a 190 million pound PET bottle recycling operation.

About J.H. Whitney & Co.

J.H. Whitney & Co., established in 1946, was one of the first U.S. firms to pioneer the development of the private equity industry. Today, J.H. Whitney remains privately owned and its main activity is to provide private equity capital for small and middle market companies. J.H. Whitney is currently investing its sixth private equity fund, J.H. Whitney VI, L.P., for major endowments, foundations, pension plans, and high net-worth families. Investment activities are focused on small and middle market buyouts of market leading companies that are poised for growth in a number of industries including consumer products and retail, healthcare services, specialty manufacturing and business services. (www.whitney.com).

About Wellman Inc.

Wellman, Inc. manufactures and markets high-quality PermaClear® brand PET (polyethylene terephthalate) packaging resin.

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APPENDIX J

CMC Steel South Carolina Announces Expansion in Lexington County

November 05, 2008

COLUMBIA, S.C. – November 5, 2008 – The South Carolina Department of Commerce, Lexington County and the Central S.C. Alliance today announced that CMC Steel South Carolina will expand its operating facility in Cayce, S.C. CMC Steel will invest approximately \$29.5 million to grow its steel mill in Lexington County.

“We see Lexington County as a stakeholder in our business and appreciate all the support the company has received from local and state officials. The expansion will ensure that our steel mini-mill in Cayce remains modern and efficient, and represents the long-term commitment we have to the region,” Dennis Malatek, Vice President and General Manager of CMC Steel.

The investment is the first large-scale expansion at the facility since 1998. The mini-mill provides a number of steel products, including rebar, angles, channels, rounds, flats, squares and billets to customers throughout the Southeast.

“CMC Steel has been a strong and valued member of our state’s business community for nearly 14 years. The company’s continued investment in our state further demonstrates its commitment as a strong corporate citizen in South Carolina. The announcement also serves as another sign that the state’s business-friendly climate is working to grow existing businesses. Thanks to the team efforts of local and state officials, Lexington County will benefit from this investment now and in the future,” said Joe Taylor, Secretary of Commerce.

“CMC Steel operates two facilities in Lexington County and we are delighted with the continued commitment, by the company, to grow and expand in the County. This company has been an important part of our robust business sector for several years and we look forward to maintaining this mutually beneficial relationship. Lexington County remains steadfast in its commitment to developing new investment and employment opportunities for its citizenry,” said Billy Derrick, Chairman of Lexington County Council.

“We appreciate CMC Steel’s decision to further invest in Lexington County and the central South Carolina region. During the past decade, the company has been an important member of our business community, and we hope to continue that strong relationship for years to come,” said Jim Apple, chairman of the Central S.C. Alliance.

CMC Steel South Carolina has been a subsidiary of Commercial Metals Company (CMC) since November 1994, when the Owens Steel facility was acquired, and is one of CMC’s four steel mini-mills. CMC’s vertically integrated operations include steel fabrication and processing plants, construction-related product warehouses, a copper tube mill, metal recycling facilities and marketing and distribution offices in the United States and in strategic overseas markets. For more information, please visit www.cmcsteelsc.com.

APPENDIX K

Sloan Construction Company Announces new facility in Union County

November 06, 2008

COLUMBIA, S.C. – November 6, 2008 – The South Carolina Department of Commerce and Union County today announced that Sloan Construction Company Inc. will locate a new facility in Union County. The \$15 million investment is expected to generate up to 20 new jobs.

“We are pleased to locate our new liquid asphalt cement storage and distribution facility in Union County. This facility will help ensure our supply of liquid asphalt cement, which is vital to our business. The business environment, skilled workforce and location in Union County are excellent and are the right fit for our company. We appreciate all the support we’ve received from state and local officials,” said Scott Fant, manager of business development for Sloan Construction Company.

Liquid asphalt is used in the production of hot mix asphalt products, which are used in the construction and maintenance of highways, airports, parking lots and driveways. Construction on the new facility is slated to begin this month, and the facility is expected to be online by early 2009.

“Sloan Construction Company Inc. is a regional leader in heavy highway construction and general contracting services. The company is based in the Upstate and has been operating in South Carolina for 75 years. Sloan Construction’s decision to grow in South Carolina is a strong testament to the state’s business-friendly climate and quality workforce. Thanks to the team effort of state and local officials, Union County will benefit from this investment now and in the future,” said Joe Taylor, Secretary of Commerce.

“We are pleased to welcome Sloan Construction Company Inc. to our business community. The company has a long history in South Carolina, and this announcement means more job opportunities for Union County residents,” said Donnie Betenbaugh, chairman of Union County Council.

Founded in 1933, Sloan Construction Company Inc. is one of the largest heavy highway and general contracting companies in the Carolinas and Georgia. The company provides a full range of heavy construction services, from excavation and site work to asphalt paving and bridge construction. Sloan Construction’s corporate headquarters is located just north of Greenville and the company maintains regional offices in Duncan, Columbia, Blacksburg, Winston-Salem, N.C. and Toccoa, Ga. For more information, visit www.sloan-construction.com.

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APPENDIX L

Nucor's Darlington Steel Mill Announces \$45 million Expansion

November 25, 2008

COLUMBIA and DARLINGTON, S.C. – November 25, 2008 – The South Carolina Department of Commerce, Darlington County Economic Development Partnership and Nucor Corporation (NYSE: NUE) announced the company's plans to invest \$45 million over the next five years at its Nucor Steel South Carolina Steel Mill located at 300 Steel Mill Road in Darlington, South Carolina. The project will include improvements to the existing steel mill facility such as upgraded equipment in the rolling mills and improvements to the scrap conveyor, alloy handling systems, ductwork, railroad tracks and cranes. Further investments will be made through the expansion of the existing baghouse, the acquisition of land and growth in the mill's special bar quality capabilities.

Mike Gurley, Vice President and General Manager of Nucor Steel South Carolina, stated, "We are proud to be able to continue our improvement and expansion to our Darlington Steel Mill, which is due primarily to the efforts of our dedicated employees and the support that we have received from the local community."

"It is important that Nucor continually reinvest in technology and modernization of their Darlington Mill to remain competitive," said Billy Baldwin, Chairman, Darlington County Council. "Nucor is an important member of our community, and Council looks forward to supporting this expansion."

"Nucor has been a strong and valued member of our state's business community for nearly 40 years. The company's decision to further invest in our state demonstrates its commitment as a strong corporate citizen in South Carolina. This announcement also serves as another sign that the state's business-friendly climate is working to grow existing businesses. Thanks to the team efforts of local and state officials, Darlington County will benefit from this investment now and in the future," said Joe Taylor, Secretary of Commerce.

"In the midst of the national economic situation, it is gratifying for Nucor to show their confidence in our community by announcing this investment in their Darlington Mill," said Goz Segars, Chairman, Darlington County Economic Development Partnership. "Existing industries are the backbone of our community, and we must continue to look for opportunities to support them."

The Darlington Mill produces concrete reinforcing bars, hot rolled bars, rod, light shapes, structural angles and channels utilizing 100 percent recycled steel. These products have a wide usage serving primarily the agricultural, automotive, construction, energy, furniture, machinery, metal building, railroad, recreational equipment, shipbuilding, heavy truck and trailer market segment. Nucor was selected as the South Carolina Recycler of the Year in 2007.

Headquartered in Charlotte, N.C., Nucor makes more steel in America than any other company. Nucor and affiliates are manufacturers of steel products, with operating facilities primarily in the U.S. and Canada. Products produced include: carbon and alloy steel -- in bars, beams, sheet and plate; steel joists and joist girders; steel deck; fabricated concrete reinforcing steel; cold finished steel; steel fasteners; metal building systems; light gauge steel

framing; steel grating and expanded metal; and wire and wire mesh. Nucor also brokers ferrous and nonferrous metals, pig iron and HBI/DRI; supplies ferro-alloys; and processes ferrous and nonferrous scrap. Nucor is North America's largest recycler.

APPENDIX M

South Carolina Department Of Commerce – Recycling Market Development 2008/2009 Survey Of SC Recycling Businesses

NAME OF COMPANY						CONTACT TITLE				
PREFIX		CONTACT FIRST NAME		MIDDLE INITIAL		LAST NAME		SUFFIX		
CONTACT PHONE #				CONTACT FAX #			CONTACT EMAIL			
COMPANY TOLL FREE #				COMPANY FAX #			COMPANY EMAIL			
PHYSICAL ADDRESS OF FACILITY										
PHYSICAL CITY					STATE SC	ZIP + 4			COUNTY	
MAILING ADDRESS FOR THIS FACILITY										
MAILING CITY					STATE	ZIP + 4			COUNTY	
Please check the category(ies) that best defines your role as a recycling company:										
<input type="checkbox"/> Hauler		<input type="checkbox"/> Processor		<input type="checkbox"/> End-User		<input type="checkbox"/> Broker		<input type="checkbox"/> Recycling Equipment		
<input type="checkbox"/> Collector		<input type="checkbox"/> Reuse		<input type="checkbox"/> Exporter		<input type="checkbox"/> Remanufacturer				
Please check the materials below that your company transports, processes or uses as a raw material.										
Construction & Demolition:					Paper:					
<input type="checkbox"/> Concrete & Brick		<input type="checkbox"/> Asphalt Pavement		<input type="checkbox"/> Boiler Flashing		<input type="checkbox"/> Corrugated Cardboard - Waxed		<input type="checkbox"/> Paper Tubes		<input type="checkbox"/> Paper -- Kraft
<input type="checkbox"/> Bricks		<input type="checkbox"/> Vinyl Siding (PVC)		<input type="checkbox"/> Carpet		<input type="checkbox"/> Paper -- Office Mix		<input type="checkbox"/> Paper -- Card Stock		<input type="checkbox"/> Aluminum Laminated Paper
<input type="checkbox"/> Drywall (Gypsum)		<input type="checkbox"/> Salvaged Building Materials		<input type="checkbox"/> Carpet Padding		<input type="checkbox"/> Corrugated Cardboard		<input type="checkbox"/> Paper -- Colored/Blend		<input type="checkbox"/> Books -- Hard Cover
<input type="checkbox"/> Scrap Lumber				<input type="checkbox"/> Fiberglass		<input type="checkbox"/> Fiber Drums		<input type="checkbox"/> Paper -- Greenbar		<input type="checkbox"/> Books -- Soft Cover
<input type="checkbox"/> Railroad Ties				<input type="checkbox"/> Fly or Bottom		<input type="checkbox"/> Magazines				<input type="checkbox"/> Paperboard
<input type="checkbox"/> Ceiling Tiles						<input type="checkbox"/> Newspaper				<input type="checkbox"/> Other (please write in)
<input type="checkbox"/> Roofing Material										
Metal:					Plastic:			Organics		
<input type="checkbox"/> Ferrous		<input type="checkbox"/> Steel Drums		<input type="checkbox"/> ABS		<input type="checkbox"/> PE		<input type="checkbox"/> Restaurant Food Waste		
<input type="checkbox"/> Non-Ferrous		<input type="checkbox"/> Cans- Aerosol		<input type="checkbox"/> Foam		<input type="checkbox"/> PS		<input type="checkbox"/> Bakery Waste		
<input type="checkbox"/> Appliances		<input type="checkbox"/> Foundry Sand		<input type="checkbox"/> Mixed Plastic		<input type="checkbox"/> PVC		<input type="checkbox"/> Beverage Waste		
<input type="checkbox"/> Automobiles		<input type="checkbox"/> Steel Slag		<input type="checkbox"/> Nylon		<input type="checkbox"/> Teflon		<input type="checkbox"/> Brewery Waste		
<input type="checkbox"/> Batteries – Household		<input type="checkbox"/> Propane Cylinders		<input type="checkbox"/> HDPE		<input type="checkbox"/> Agriculture Plastic		<input type="checkbox"/> Cooking Oil		
<input type="checkbox"/> Batteries – Lead Acid		<input type="checkbox"/> Other (please write in)		<input type="checkbox"/> LDPE		<input type="checkbox"/> Plastic Buckets - HDPE		<input type="checkbox"/> Restaurant Grease		
				<input type="checkbox"/> PETE		<input type="checkbox"/> Other (please write in)		<input type="checkbox"/> Other (please write in)		
Oil and Petroleum:					Biomass/Wood:					
<input type="checkbox"/> Diesel		<input type="checkbox"/> Transmission Fluid		<input type="checkbox"/> Manure		<input type="checkbox"/> Sawdust and Bark				
<input type="checkbox"/> Combustible Petroleum		<input type="checkbox"/> Mineral Oil		<input type="checkbox"/> Biosolids		<input type="checkbox"/> Land clearing debris				
<input type="checkbox"/> Hydraulic Fluid		<input type="checkbox"/> Other Used Oil		<input type="checkbox"/> Manufacturing Scrap		<input type="checkbox"/> Pallets				
<input type="checkbox"/> Light Grease		<input type="checkbox"/> Oil Filters		<input type="checkbox"/> Mobile Wood Recycler		<input type="checkbox"/> Yard Waste				
<input type="checkbox"/> Used Motor Oil		<input type="checkbox"/> Other (please write in)		<input type="checkbox"/> Boiler Fuel		<input type="checkbox"/> Other (please write in)				
				<input type="checkbox"/> Mulch						
Rubber:					Glass:					
<input type="checkbox"/> EPDM Rubber		<input type="checkbox"/> SBR Rubber		<input type="checkbox"/> Clear		<input type="checkbox"/> Lab Glass		<input type="checkbox"/> Mirror Glass		
<input type="checkbox"/> Foam Rubber		<input type="checkbox"/> Automotive Tires		<input type="checkbox"/> Brown		<input type="checkbox"/> Plate and Window Glass		<input type="checkbox"/> Other (please write in)		
<input type="checkbox"/> Rubber Inner Tubes		<input type="checkbox"/> Other Rubber		<input type="checkbox"/> Green		<input type="checkbox"/> Lead Glass				
		<input type="checkbox"/> Other (please write in)		<input type="checkbox"/> Mixed Glass						
Electronics/Computers:					Textiles:					
<input type="checkbox"/> Electronic Equipment and Scrap		<input type="checkbox"/> Monitors- Flat Screens		<input type="checkbox"/> Textile Clippings		<input type="checkbox"/> Polyester – Textile		<input type="checkbox"/> Sheeting Material		
<input type="checkbox"/> Monitors – CRT's		<input type="checkbox"/> Televisions – Flat Screens		<input type="checkbox"/> Material – Wovens		<input type="checkbox"/> Cotton		<input type="checkbox"/> Textile Cones – Paper		
<input type="checkbox"/> Reels		<input type="checkbox"/> Cartridges		<input type="checkbox"/> Material – Nonwovens		<input type="checkbox"/> Wool		<input type="checkbox"/> Textile Cones – Plastics		
<input type="checkbox"/> Telecommunications Scrap		<input type="checkbox"/> Fluorescent Tubes and Ballasts		<input type="checkbox"/> Nylon - Textile		<input type="checkbox"/> Rags		<input type="checkbox"/> Carbon Fiber		
<input type="checkbox"/> Televisions- CRT		<input type="checkbox"/> Other (please write in)		<input type="checkbox"/> Rayon		<input type="checkbox"/> Textile Floor Sweeps		<input type="checkbox"/> Other (please write in)		
				<input type="checkbox"/> Polycotton						
Other (please list):										
Please indicate type of waste you handle:					<input type="checkbox"/> Post Consumer					
					<input type="checkbox"/> Post Industrial					
Please list and describe products you manufacture that contain recycled materials (use additional paper if necessary):										

Prepared by (please print name): _____

Please return to the SC Department of Commerce, RMDAC, Attention: Chantal Fryer, 1201 Main St., Suite 1500, Columbia, SC 29201,
cfryer@sccommerce.com or by fax: (803) 806-3427.

APPENDIX N

RECYCLING BUSINESS FORUM EVALUATION MONDAY, SEPTEMBER 8, 2008 MICHELIN CONFERENCE CENTER

Please take a moment to complete this evaluation to help us ensure that the forum was useful and informative. We appreciate your help!

On a scale of 5 (**strongly agree**) to 1 (**strongly disagree**), please rate the following statements by checking the appropriate box. If you have specific comments or suggestions, please include them at the end of the survey.

Please circle your choice on the scale to the right of the following Questions.	Strongly Agree	Agree	Neither Disagree or Agree	Disagree	Strongly Disagree
1. The meeting proved to be a productive use of my time.	5	4	3	2	1
2. Overall, I found the information presented to be useful and informative.	5	4	3	2	1
3. I found new contacts and opportunities for future collaboration.	5	4	3	2	1
4. The speakers were informative and knowledgeable on the subjects they addressed.	5	4	3	2	1
5. The meeting time was convenient and an appropriate length for the information presented.	5	4	3	2	1
6. Department of Commerce staff was helpful.					

7. What topics would you have liked to hear more about that were not covered in today's session?

8. Please provide any recommendations or suggestions you may have for Department of Commerce Recycling Market Development staff or for future discussions at Recycling Market Development Advisory Council and/or Recycling Industry Group meetings.

APPENDIX O

South Carolina Department of Commerce Recycling Market Development 2008 Waste Tire Survey

Company Name: _____

Contact Name: _____ Email Address: _____

Phone Number: _____ Fax Number: _____

Please provide the number of **PASSENGER OR LIGHT TRUCK TIRES IN TONS** processed in 2008:

Post Consumer Tires (from retail, municipal and individuals) from S.C.? _____

Post Industrial Tires (from manufacturing and industrial scrap tires) from S.C.? _____

Please provide the number of **HEAVY TRUCK TIRES IN TONS** processed in 2008:

Post Consumer Tires from S.C.? _____

Post Industrial Tires from S.C.? _____

What **PERCENTAGE** of processed tires was used in the following end-use market applications?

Tire-Derived Fuel: Whole Tires _____% Processed Material _____%

Civil Engineering:

Landfill Use for Alternate Daily Cover _____%

Landfill Use for Construction (leachate layers, gas laterals, trenches, landfill caps)
_____%

Non-Landfill Use (such as septic system chips, highway fills) _____%

Ground/Crumb Rubber: _____%

What was the crumb rubber used for? _____

What was/were the mesh size(s)? _____

Landscape: _____% *Playground Material:* _____% Sports
Surfacing: _____%

Molded, Extruded, Pressed, or Stamped Manufactured Products: _____%

Other: _____% Please describe _____

What **PERCENTAGE** of your product is sold in S.C.? _____%

How many tons of whole or processed S.C. tires were land-filled in 2008? _____

Do you take large off-road, farm, mining, or logging equipment tires?

Yes _____ No _____ If yes, how many? _____

How many tons of S.C. tires did you export out of the United States in 2008? _____

Do you have markets for steel and fabric waste? If yes, what are they? _____

Comments (use additional paper if necessary):