An Introduction to the Pennsylvania Recycling Markets Center

Pete Previte, Recycling Markets Development Manager
Pennsylvania Recycling Markets Center

Association of State & Territorial Solid Waste Management Officials
August 13, 2019
Presentation Outline

➢ RMC Composition

➢ Programs, Projects, and Partnerships
  ✓ Webinars
  ✓ Markets Development Summits
  ✓ Recycling Congress
  ✓ Thermography Analysis
  ✓ Electronic Waste
  ✓ Lead Glass Recycling
  ✓ Amorphous vs Crystalline Silica
  ✓ Nursery Supplies
  ✓ Recycling Marketplace Study
RMC Composition

• The Mission of the RMC is to expand and develop more secure and robust markets for recycled materials by helping to overcome market barriers and inefficiencies.

• Board composition (11/16)
  • Industry – 31.25%
  • Government – 25%
  • Non-Government Organization – 18.75%
  • Academia – 12.5%
  • Citizen – 12.5%

• 26 states

• Affiliation with The Pennsylvania State University

• Funding
  • Act 101/175
  • State Legislation, Fee Paid, Program Income
Program - Webinars

• Partnership with the National Recycling Coalition (as of March 2019)

• **Attendance**
  • 12,086 attendees
  • Representation from:
    • 50 states
    • 4 U.S. Territories
    • 7 Canadian Provinces
    • 9 Foreign Countries
  • 90 Webinars

• **Recent Titles**
  • Ocean Bound Plastics
  • A New and Innovative Use of Plastics
  • Plastics Recycling Tools for the Recycling Industry, Communities, and Consumers
  • Utilizing Internet-based Resources to Advance Sustainable Materials Management
  • Data Security Issues: Why it Matters for the Outdated IT Equipment and E-Waste
Program – Markets Development Summits

• Industry Outreach Days, current trends, issues, and opportunities
• Almost 1,500 attendees in last 5 years
Program – Recycling Congress

• Partnered, with Pennsylvania Waste Industries Association (PWIA), to lead 4 different Recycling Congresses
  • Located at the State Capitol, Harrisburg and Philadelphia City Hall

• Pennsylvania companies who contribute to the state’s growing recycling economy are invited
  • Provide exhibits and displays
  • Over 100 attendees per Recycling Congress
  • Approximately 120 exhibitors in total
Program – Thermography Analysis

• Energy Auditing
  • Detect excessive heat in critical equipment
  • Identify potential equipment failures by high temperature
  • Tailored for recycling material processors, but also manufacturers that use recyclables as feedstock
  • MRF – 48hr downtime, Estimated $5k
Programs & Projects – Markets Development

• (1) Chinese Investment, OIBD, processing 1 & 2 resin
• (2) Chinese Investment, OIBD, processing 1 & 2 resin
• (3) Chinese Investment, OIBD, processing 1 & 2 resin
• Russian manufacturer, agricultural film, processing (NCPA)
• 2 company partnership - US plastics manufacturers, sign substrates, electronics waste plastics
• US plastics Bottle manufacturer, 1 plastic
Programs & Projects – Markets Development

• HydroBlox, mixed plastics, watershed management
• US plastics manufacturer, fencing
• US fiber manufacturer, insulation
• US-Norwegian partnership, mixed film, plastic pallets
• US-Dubai partnership, plastics, processing resin, manufacturing composites
• US Glass processor, prepare glass cullet and end products
Programs & Projects – Closed Loop Fund

- RMC Exclusive PA Partner
- $5M CLF Reserve for RMC-PA Projects
- Material Recovery for the Future Project
Programs & Projects – Material Trader

- Project launched with JPL, Phase I
- Anticipate launch Phase II by Apr 30
- Domestic trading and purchase options
Program – Electronic Waste Assistance Portfolio

• Annual PA Consumer E-scrap survey
  ✓ Awareness of where to recycle electronics has plateaued
    ➢ 62% in 2015; 46% in 2016; 53% in 2017

• Amount of TVs and CRT monitors
  ✓ Declined from 650 million 395 million to 257 million

• Legislation: SB800
  ✓ Waste Electronic Equipment Recovery Act
  ✓ Industry Voice - 29 engagements, almost 2,200 attendees

• Certification Body Auditing

• Business Attraction
Project – Amorphous vs Crystalline Silica

www.aeroaggregates.com
Project – Cleaning Recycled Plastics

- Manufacturer of injection molded, thermoformed, and blow molded horticultural pots, systems
- Founded 1960
- 61 U.S. Distributors, 8 Canadian, 1 Japan
- Wash line evaluation, technical assistance
- RMC, Penn State Harrisburg faculty and student research
In 2015, the Pennsylvania recycling marketplace consisted of 6,373 establishments that directly employed over 66,000 while stimulating close to 110,000 indirect and induced jobs.

The average labor income across the direct, indirect, and inducted categories within the recycling marketplace was 64,500 in 2015, approximately 23% above the state average.

Every million dollars in direct output supports 6 workers throughout the direct, indirect, and induced categories.
Program – PA ReMaDe Conference

- www.pennrmc.org
Contact Information

Experts helping industry decision makers throughout Pennsylvania.

Wayne Bowen
Recycling Program Manager
(717) 948 – 6719
wbowen@pennrmc.org

Pete Previte
Recycling Markets
Development Manager
(724) 994 – 6197
pprevite@pennrmc.org

Robert J. Bylone, Jr.
Executive Director
(717) 948 – 6729
rbylone@pennrmc.org

Scott Marks
Recycling Program Manager
(717) 948 – 6747
smarks@pennrmc.org