About CVWMA

- Public Service Authority – Va Water And Waste Authorities Act
- Formed in 1990
- Legislation in 1988 requiring solid waste planning and 25% recycling mandate

MISSION: *Fostering regional collaboration to provide planning, resources and education in order to reduce, reuse, recycling and manage solid waste for our 13 jurisdictions.*

About CVWMA (cont'd)

- 13 Localities
  - urban, suburban and rural
- Population 1.3 million; 2500 sq miles
- 20 member Board of Directors
  - Appointed by local governing bodies - # of members based on population
- Local Government Funded
  - Operating Assessment of $.48/capita
- 11FTEs

MISSION: *Fostering regional collaboration to provide planning, resources and education in order to reduce, reuse, recycling and manage solid waste for our 13 jurisdictions.*

Benefits of Regional Collaboration

- Many benefits to regional approach, including:
  - Coordinating overlapping service areas
  - Greater operational efficiency
  - Improved service delivery
  - Attracting and retaining staff expertise
  - Solving problems that extend beyond jurisdictional boundaries
  - Advancing regional objectives

Key Benefits & Financial Impacts of CVWMA

- Regional Solid Waste Planning – developed, amend, update and maintain the regional SWMP on behalf of all 13 governments
- Compile the annual regional recycling rate report
- Procure, negotiate and administer cost-effective programs to benefit multiple localities
    - Menu of Services – pick and choose to best fit individual needs
    - Reduces locality staff time for procurement, contract performance, customer service and education
- Authority serves as extension of locality staff

Solid Waste Planning Regulations – 9VAC20-130

- Each planning unit (or individual locality) required to develop and maintain Plan
  - CVWMA is designated plan holder (solid waste planning unit) for the regional Plan
- 20 Year Plan; required updates every 5 years – updated 2024
- Addresses Source Reduction, Reuse, Recycling, Resource Recovery, Incineration and Landfilling
- Estimates of Solid Waste Generation based on projected population
- Plans to meet the Recycling Mandate
- Locality Input

Who Does What?

	CVWMA	Local	PDCs	VA DEQ	Private
Planning	✓	✓			
Zoning/Approvals		✓			
Consider New/Expansion of Capacity or LF Closure	✓	✓	✓		
Permitting				✓	✓
Compliance				✓	✓
Gathering data and reporting the region’s annual recycling rate	✓				

Disposal Capacity and 20-Year Need

	Remaining Capacity (tons) *
Sanitary (MSW) LFs within CVWMA Region	16,584,348
CDD LFs within CVWMA Region	15,212,964
Sanitary (MSW) LFs outside CVWMA Region	93,769,819
TOTAL	**125,567,131**

* *Does not include future Greenridge LF (Cumberland) - ~48 million tons capacity*

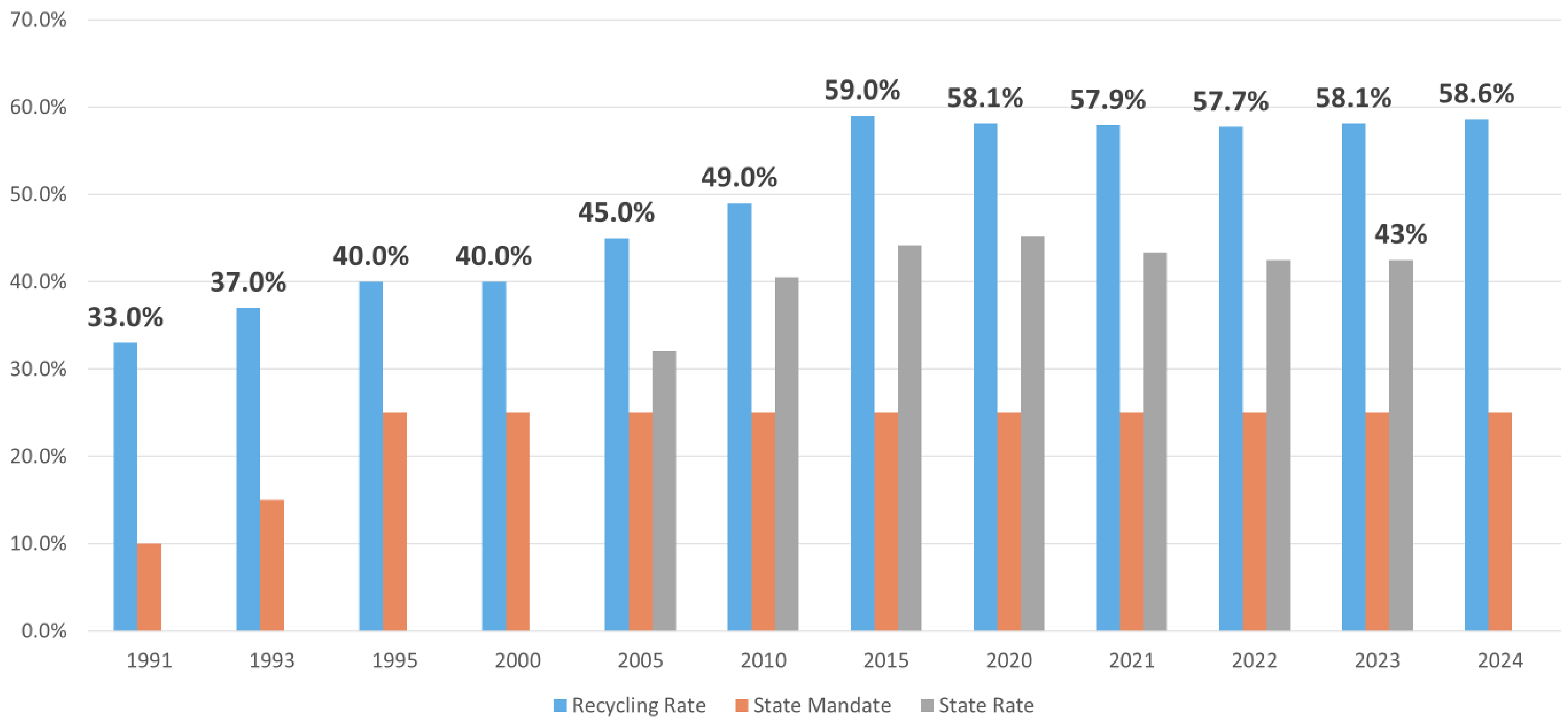
Landfill ownership		
Republic	21,936,148	20%
WM	87,842,063	80%

Estimated Waste Generation 20 years (tons) 4.9lbs/person/day	25,109,320
Estimated Recycling @ current rate 58.6%	14,714,061
Estimated Need – over next 20 years	**10,395,259**

CVWMA

Annual Regional Recycling Rate

State Mandated Goal – Recycle 25% of Waste Stream

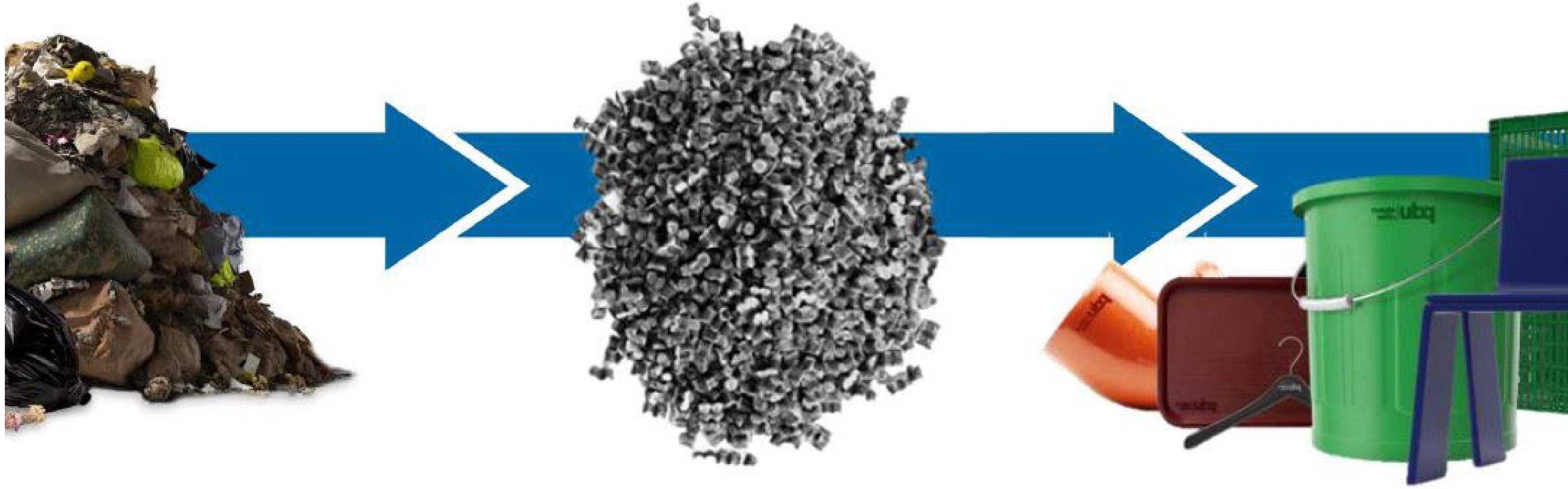


What goes into the Recycling Rate?

Yard and Wood Waste	274,937 tons
Paper/Cardboard	86,868 tons
Scrap Metal	174,545 tons
Construction Debris	78,690 tons
Used Oil/Filters/AF	11,923 tons
Glass/Paper/Alum	63,313 tons
Textiles	9,364 tons
Food Waste	4,570 tons
Waste Tires	1,086 tons
Electronics/Batteries	1,449 tons

$$\frac{\text{Total Recycled} \quad 702{,}141 \text{ tons}}{\text{Est. Waste Generated} \quad 1{,}198{,}193 \text{ tons}} = \boxed{58.6\%}$$

Alternatives to Landfill



- Improve and Expand Recycling (multi-family; additional commodities)
- Composting – Food & Yard waste
- Waste Conversion Technologies - making new products from waste, such as:
  - Thermal Plastic Products
  - Fiber Products
  - Fuel

Opportunities to Expand Recycling

Multi-Family

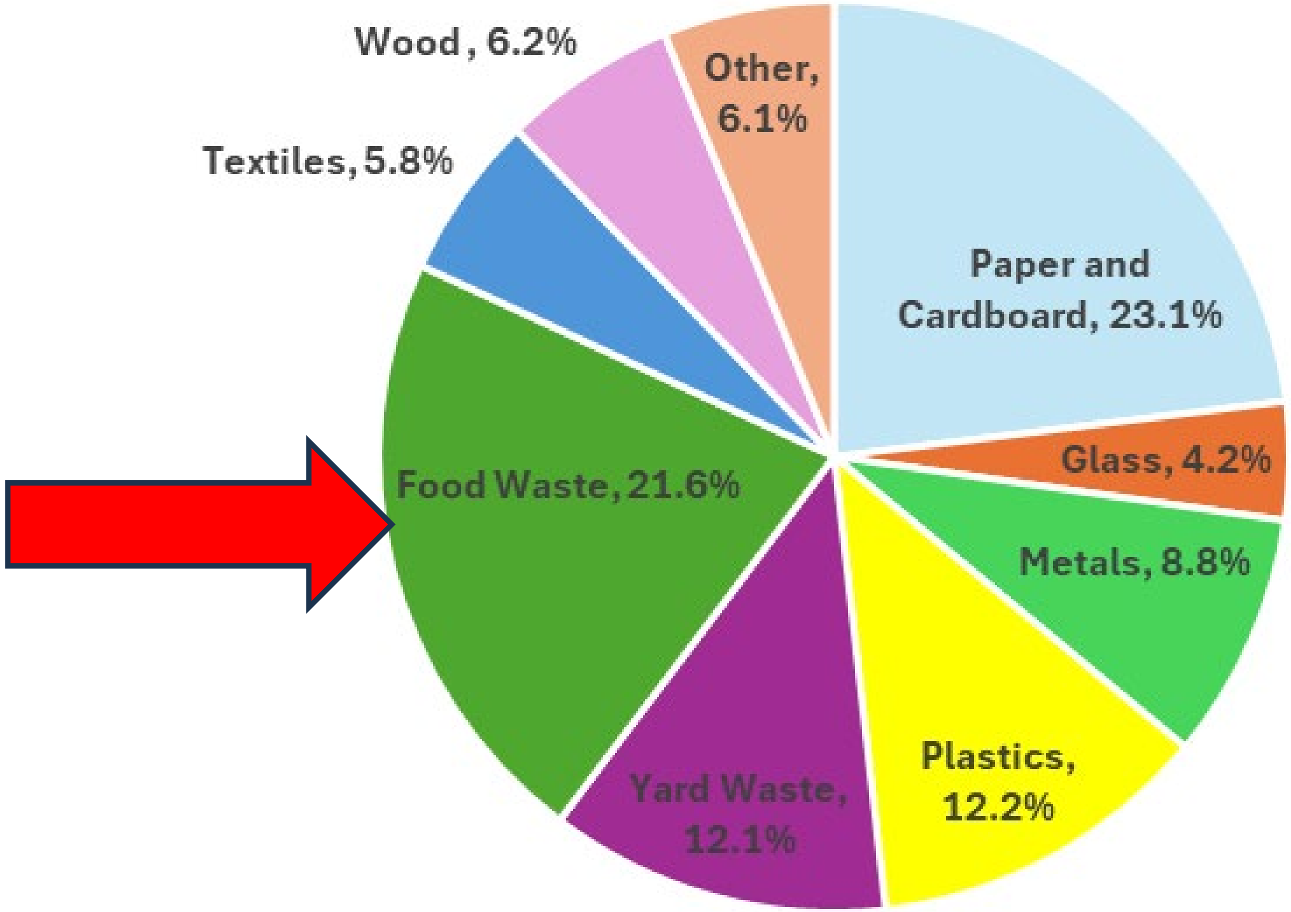
Market Development

Public Facilities

Regional Recycling Event – 10/18

- ~800 cars;
- 3 Full trucks of electronics
- 4 tons of shredded paper;
- 3 bins+ textiles

Waste Composition



Per EPA

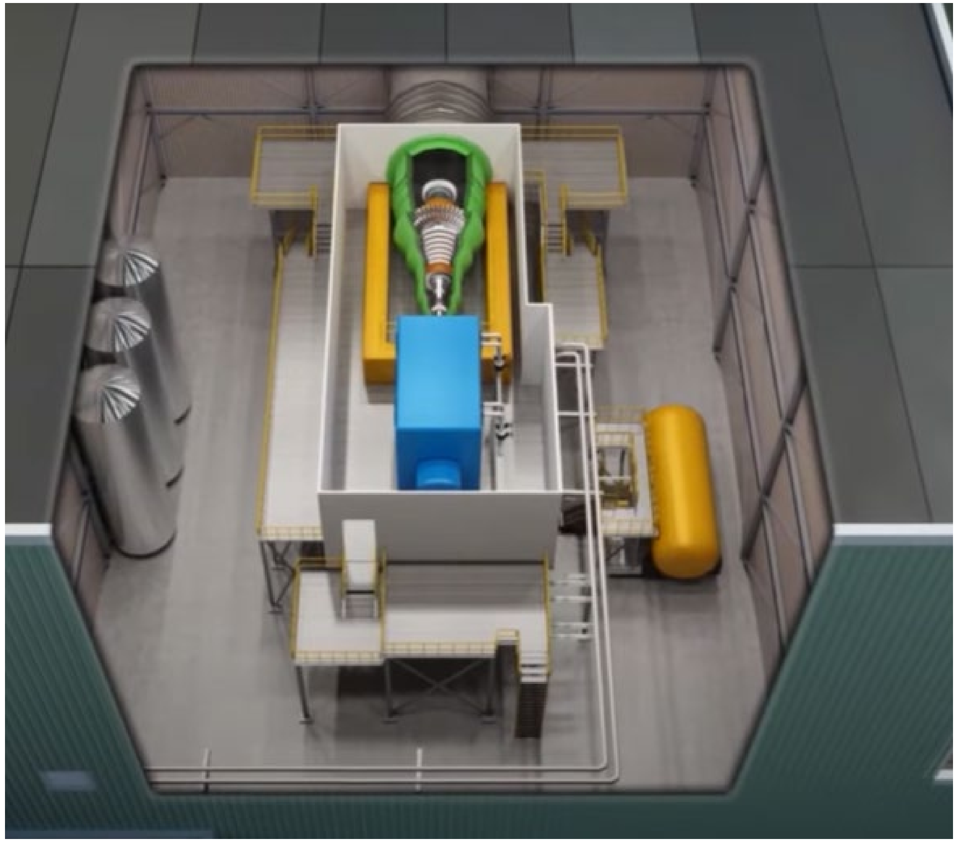
Launching 22 sites

Chesterfield

Henrico

Richmond

Alternates to landfilling non-recyclable waste



Virginia Emerges as National Leader in Material Innovation, Launches Initiative to Advance Responsible Waste Management

October 16, 2025 | Published by Julie Buchanan

From left: CVWMA Executive Director Kim Hynes, UBQ Co-Founder Jack "Tato" Bigio, Henrico County Manager John Vithoulkas, Cascade Engineering CEO Christina Keller, Del. Otto Wachsmann and City of Richmond Director of Sustainability Laura Thomas.

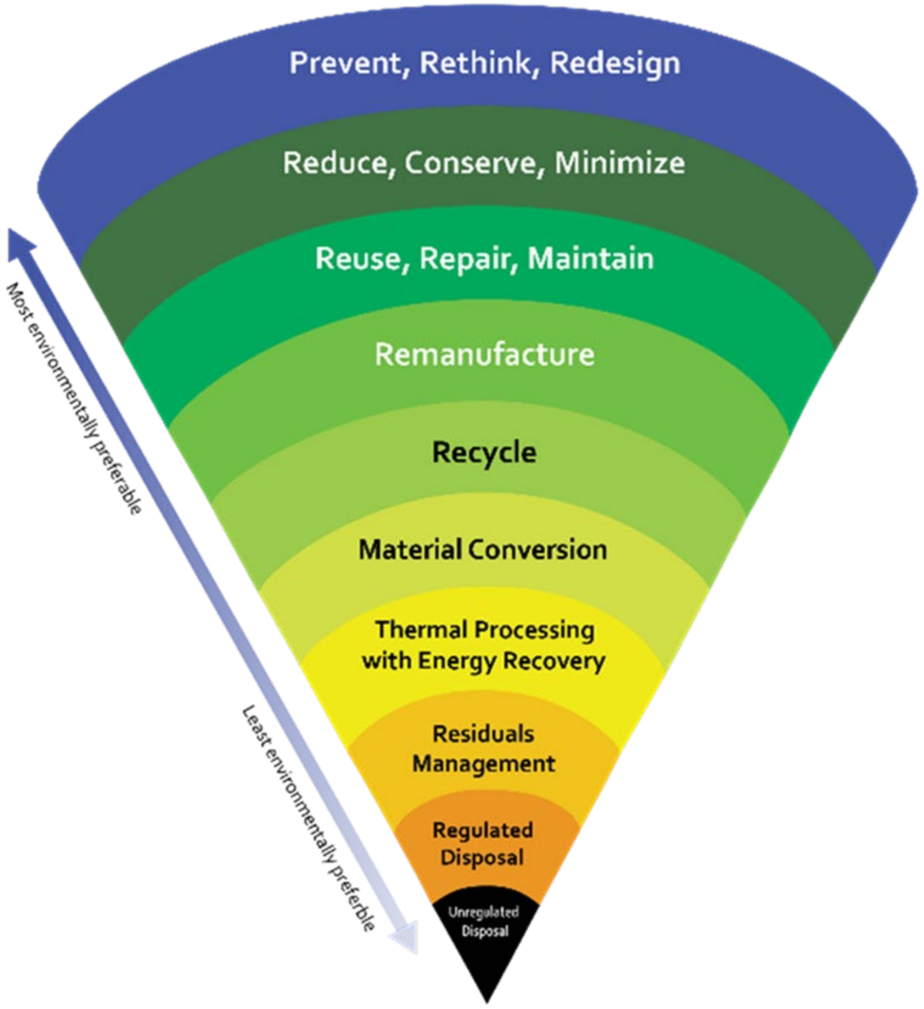
Focus on the Future

Sustainable Materials

- Systemic approach to using and reusing materials over their entire life cycle.
- Acknowledges that no single management strategy is suitable for all materials and waste streams.
- Emphasizes using less.

"Cradle-to-cradle design"

Sustainable Materials Management Hierarchy



Food for Thought

- Maximize recycling efforts
  - Ensure everyone has access to recycling
  - Recycling at all public facilities (schools, etc)
  - Simplify message
  - Change behavior
  - Recycling Markets development
- Organics / Composting
  - Establish programs in ALL localities
  - Expand to public facilities (schools, jails, etc)
  - Market Development
- Alternative Waste Solutions
  - Explore alternatives to landfilling non-recyclable waste
  - Economic Development Projects

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