



Resource Recycling Systems
Sustainable Systems for a Waste-Free Future

Peoria County

Resource Management Plan

IRA/SWANA/ILCSWMA Conference

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RESOURCE MANAGEMENT PLAN

KEY PRINCIPALS OF SUCCESS

The Peoria County Recycling Department has worked with a solid waste/recycling consulting firm to develop an updated 20 year Resource Management Plan for Peoria County (2015-2034).

An Advisory Committee has been met from June 2013 – February 2015 to discuss the best practices for resource management, recycling and solid waste. Interviews have been conducted with a number of key constituencies. The following is an overview of the Principals of Success that form the backbone of the updated plan.

Develop a Collaborative Partnership with Local Municipalities

Provide Single Stream Curbside Recycling to All Residents and Commercial Properties

Capture Economic Benefits of Recycling through Sale of Recycled Commodities

Control Collection Costs through Performance-Based Contracting

PEORIA COUNTY PROGRAMS AND FACILITIES

- Commercial Recycling Ordinance (CRO)
- Peoria City/County Landfill
- 3 Transfer Stations (1 is Landscape Waste Only)
- 4 Materials Recovery Facilities in Region
 - Midwest Fibers processes Single Stream for most Peoria County Programs
- 13 Drop Off sites varying in size and services
- 8 Electronic Recycling Locations
- Single Day Household Hazardous Waste Collection (IEPA)



MUNICIPAL SOLID WASTE GENERATED IN PEORIA COUNTY IN 2010

2010 Households - 75,793	Tons	Percent of Total
Paper	154,325	38.9%
Milk & Juice Cartons/Boxes - Coated	490	0.1%
Plastic	29,684	7.5%
Glass	7,944	2.0%
Metal	41,649	10.5%
Organics	63,310	15.9%
Inorganics	19,329	4.9%
Textiles	13,990	3.5%
Household Hazardous Waste	5,600	1.4%
Construction and Demolition Debris (C&D)	60,688	15.3%
Total MSW (tons)	397,010	100.0%
Residential Total	182,351	45.9%
ICI Total	214,659	54.1%

MUNICIPAL SOLID WASTE DIVERTED IN PEORIA COUNTY IN 2010

The diversion rate is a key indicator as to the success or failure of recovery efforts.

According to the 2010 County Diversion Report, 148,831 tons of waste is recycled in Peoria County yielding a diversion rate of 37.5% by weight but only a 3.7% rate for residential recyclables.

Waste Stream Component	2011 Quantity (tons)	2010 Quantity (tons)
Residential Recycling (curbside and drop-off programs)	7,373	6,664
Commercial and Institutional	127,693	117,257
Yard Waste and Organic Waste (Commercial and Residential)	25,900	24,910
Total	160,966	148,831

Municipal Waste Recycled	2011	2010
Commercial and Residential Recycling Rate	39.8%	37.5%
Commercial and Residential Recycling Rate (includes Special Waste)	39.1%	35.9%
Residential Recycling Rate (includes Yard Waste)	10.6%	10.5%
Residential Recycling Rate	4.0%	3.7%

NEW RESOURCE MANAGEMENT PLAN

The new Resource Management Plan identifies ways for the county to move towards higher diversion rates and manage wastes as a resource.

- There are a total of six Strategies, 37 Goals, and 191 Objectives that make up the RMP

Strategies:

- Solid Waste/Recycling System Organization
- Recycling Services
- End Mark Development
- Organics Management and Composting Services
- Refuse Services
- Landfill Site Management

NEW RESOURCE MANAGEMENT PLAN

Components of this twenty-year plan are within a resource management planning framework, and include the following:

- Develop intergovernmental agreements
- Increase single-family residential diversion rates and provide single stream curbside recycling to all single-family households.
- Implement Multi-family apartment single stream recycling.
- Develop a countywide commercial recycling plan with mandated single stream recycling at all nonresidential locations.
- Evaluate a user fee based (Pay As you throw) waste collection program, and implement where practical.
- Develop a new comprehensive Citizen Convenience Center for Drop-Off of recyclables, refuse, bulky items, organics, and any other materials.
- Pilot food waste composting, if successful, a pilot providing year-round weekly compost collection and bi-weekly refuse collection for single-family residential routes.
- Expand Resource Management educational efforts for residents, schools, parks, businesses, and special events.

RESOURCE AND WASTE MANAGEMENT GOALS

- Set a five-year residential waste diversion goal of 10% and an overall diversion goal of 50%.
- Set a ten-year residential waste diversion goal of 15% and an overall diversion goal of 60%.
- Set a five-year household participation rate for curbside residential recycling of 50% of households, including single family and multifamily households.
- Set a ten-year household participation rate for curbside residential recycling of 90% of households, including single family and multifamily households.

Peoria County Material Diversion Rate Goals (5 and 10 Years)

Municipal Waste Diverted	10 Year Goals	5 Year Goals
Commercial and Residential Recycling Rate*	60%	50%
Residential Recycling Rate*	15%	10%
Residential Recycling Rate (includes Yard Waste)*	20%	15%
Residential Curbside Recycling Participation Rate	90%	50%

FUNDING OF PROGRAMS AND OPERATIONS

- The Funds managed by the Peoria City/County Landfill Committee and the County from the Host Benefit Fees should be include in all discussions related to intergovernmental cooperation for the purpose of implementing the Resource Management Plan
- Manage the state-allowable tipping fees for solid waste management/recycling that shall be collected by the Contractor and remitted to the County on a monthly basis as part of the Enterprise Fund. These funds should be include in all discussions related to intergovernmental cooperation for the purpose of implementing the Resource Management Plan
- Evaluate a user fee based (Pay As you throw) waste collection program, and implement where practical.

HIGHLIGHTED INITIATIVES FOR RECYCLING SERVICES

- Maximize utilization of the single stream curbside and curbside recycling systems by expanding the number of customers serviced
- Explore incentives for high performing curbside and curbside recycling customers (i.e., “super recyclers”) to further increase recycling participation, overall diversion, and cost effectiveness
- Evaluate multi family recycling collection as a requirement of the CRO
- Expand dumpster-based recycling services for larger generators of recyclable cardboard and paper.
- Place more emphasis on recovery for reuse and recycling of bulky goods collection programs.
- Encourage development of a more coordinated area-wide “Reuse Network”, to help divert more reusable materials out of the waste stream.
- Initiate a coordinated effort with other agencies to make recycling opportunities available at local parks and recreational facilities as well as major sports, cultural and special events.
- Collect waste electronics and pilot the collection of nylon carpeting.

HIGHLIGHTED INITIATIVES FOR ORGANICS SERVICES

- Pilot food waste composting by demonstrating collection and composting of vegetative waste from commercial and institutional sources.
- Develop and implement the appropriate property, plant, and equipment improvements to expand operations at the compost site
- Pilot an expanded yard waste collection program (test residential demonstration areas) to include pre-consumer vegetative waste.
- Expand marketing of the County's compost products through certification (e.g., from U.S. Composting Council) and offering of bagged compost and mulch products.

LANDFILL MANAGEMENT

- Support the Landfill Site expansion licensing process and the development of a new cell at the Peoria City/County Landfill #3 Facility with PDC.
- Monitor the post closure plan and management of Facility. Ensure that adequate funding is available to monitor and remediate, if necessary, any environmental contaminants.
- Monitor and maintain the methane gas management system currently in place including the methane-gas-to-energy facility that is not currently in operation.
 - Use Performance-Based management approach for establishing and maintaining agreement for operation of the methane gas management system with the service partner that will repair and operate the methane-gas-to-energy facility.

EXAMPLE

STRATEGIES FOR SOLID WASTE/RECYCLING SYSTEM ORGANIZATION

The following Plan strategies have been developed for organization, administration, and finance for the solid waste and recycling system for the 2014-2034 Peoria County Resource Management Plan.

1. Responsible Resource Use
2. Material Diversion and Performance Based Management
3. Incentives for Recycling and Clean Community
4. Performance-Based Service Partnerships
5. Market-Based Contracting for Commodity Services
6. Regional Partnerships
7. Funding of Operations
8. Capitalization of Equipment/Facilities
9. Maintain County Program Operations as an Enterprise Fund
10. Environmental Sustainability

Organization-1: Responsible Resource Use

Strategy Summary: The County will implement a waste strategy built around the concept of Resource Management that establishes waste as a resource and seeks to prevent, recycle, and recover waste at each stage of a products' lifecycle, with emphasis on the most environmentally sound options. (See *Resource Management information in Plan Background*).

Goal: Pursue a long-term, countywide goal of Resource Management as the most economically efficient and environmentally sustainable resource management strategy.

1. Support efforts to minimize solid waste going to landfills
2. Require all City and County sponsored events to develop a responsible resource management plan by July 2019. Require that all events that require a municipal permit to submit a resource management plan checklist by July 2017 to recover all recyclable materials. Food-related waste programs will need to be more fully developed in order to achieve this desired outcome.
3. Develop and provide online tools and print materials for residents, businesses, and events to take steps towards meeting the objectives of a resource management plan.



PEORIA COUNTY RESOURCE MANAGEMENT TIMELINE

PLAN GOAL		Year							
		Q1/Q2 2015	Q3/Q4 2015	Q1/Q2 2016	Q3/Q4 2016	2017	2018	2019	2020
	Solid Waste/Recycling System Organization								
Organization-1	Responsible Resource Use	█	█	█	█	█	█	█	█
Organization-2	Regional Partnerships			█	█	█	█	█	█
Organization-3	Performance-Based Service Partnerships	█	█	█	█	█	█	█	█
Organization-4	Increase Diversion through Performance-Based Management					█	█	█	█
Organization-5	Incentives for Recycling & Clean Community			█	█	█	█	█	█
Organization-6	Solid Waste Code and Regulatory Actions					█	█	█	█
Organization-7	Market-Based Contracting For Commodity Services					█	█	█	█
Organization-8	Funding of Operations						█	█	█
Organization-9	Maintain County Operations as an Enterprise Fund			█	█	█	█	█	█
Organization-10	Environmental Sustainability			█	█	█	█	█	█
	Recycling Services								
Recycling-1	Curbside Recycling Collection -			█	█	█	█	█	█
Recycling-2	Multi-Family and Commercial Curbside Recycling Collection				█	█	█	█	█
Recycling-3	Commercial Recycling Collection					█	█	█	█
Recycling-4	Recycling Opportunities for Schools and Public Institutions					█	█	█	█
Recycling-5	Citizen Convenience Center Drop-off Recycling Collection				█	█	█	█	█
Recycling-6	Recyclable Materials Processing and Marketing					█	█	█	█
Recycling-7	Bulky/ Special Materials Recycling and Reuse						█	█	█
Recycling-8	Construction and Demolition Waste Recycling						█	█	█
Recycling-9	The Reuse Network						█	█	█
Recycling-10	Parks/Recreation Recycling			█	█	█	█	█	█
Recycling-11	Special Events Recycling			█	█	█	█	█	█

PEORIA COUNTY RESOURCE MANAGEMENT TIMELINE

	Market Development									
Market Development-1	Utilize Recovered Materials for Economic Development									
	Organics Management and Composting									
Compost-1	Curbside Yard Waste Collection									
Compost-2	Vegetative Waste Collection									
Compost-3	Citizen Convenience Center Drop-off Facility									
Compost-4	Processing Capacity/Compost Site									
Compost-5	Marketing of Finished Product									
Compost-6	Utilities Biosolids									
	Refuse Services									
Refuse-1	Residential Refuse Collection									
Refuse-2	Commercial Solid Waste Franchise Role									
Refuse-3	Citizen Convenience Center Drop-off Facility Refuse Collection									
Refuse-4	Bulky Waste Collection and Reuse									
Refuse-5	Parks and Special Events Refuse Collection									
Refuse-6	Litter Cans and Clean Community Initiative									
	Landfill Site Management									
Landfill Site-1	Site Expansion Licensing and Disposal capacity									
Landfill Site-2	Refuse Transfer									
Landfill Site-3	Closure Plan/ Maintenance									
Landfill Site-4	Methane Gas Management									

RESOURCE MANAGEMENT PLAN

- Plan is available on website at peoriacounty.org/recycle and select RMP tab.