



# IDEM Recycling Initiatives



ESP Annual Meeting  
December 3, 2020

# Recycling in Indiana

Indiana statutes provide a framework for recycling initiatives in the state. This includes:

- Support of the state's goal of a 50% recycling rate
- Data collection and reporting program
- Support of solid waste management districts (SWMDs)
- Establishment of Recycling Market Development Program, Community Recycling Grant Program and other grant programs
- Provisions for education and technical assistance

## **Partnership Recycling Initiatives**

IDEM works with partners across the state to promote recycling. Our projects include:

- Indianapolis Circular Economy Initiative
- Wabash Heartland Innovation Network - Indiana Recycling Coalition Grant
- Indiana Food Scrap Initiative (IFSI)
- Increased recycling at the State Government Center
- Education, outreach and technical assistance to solid waste management districts, schools, and municipalities



# Recycling Data (IC 13-20-25)

## 50% Recycling Goal

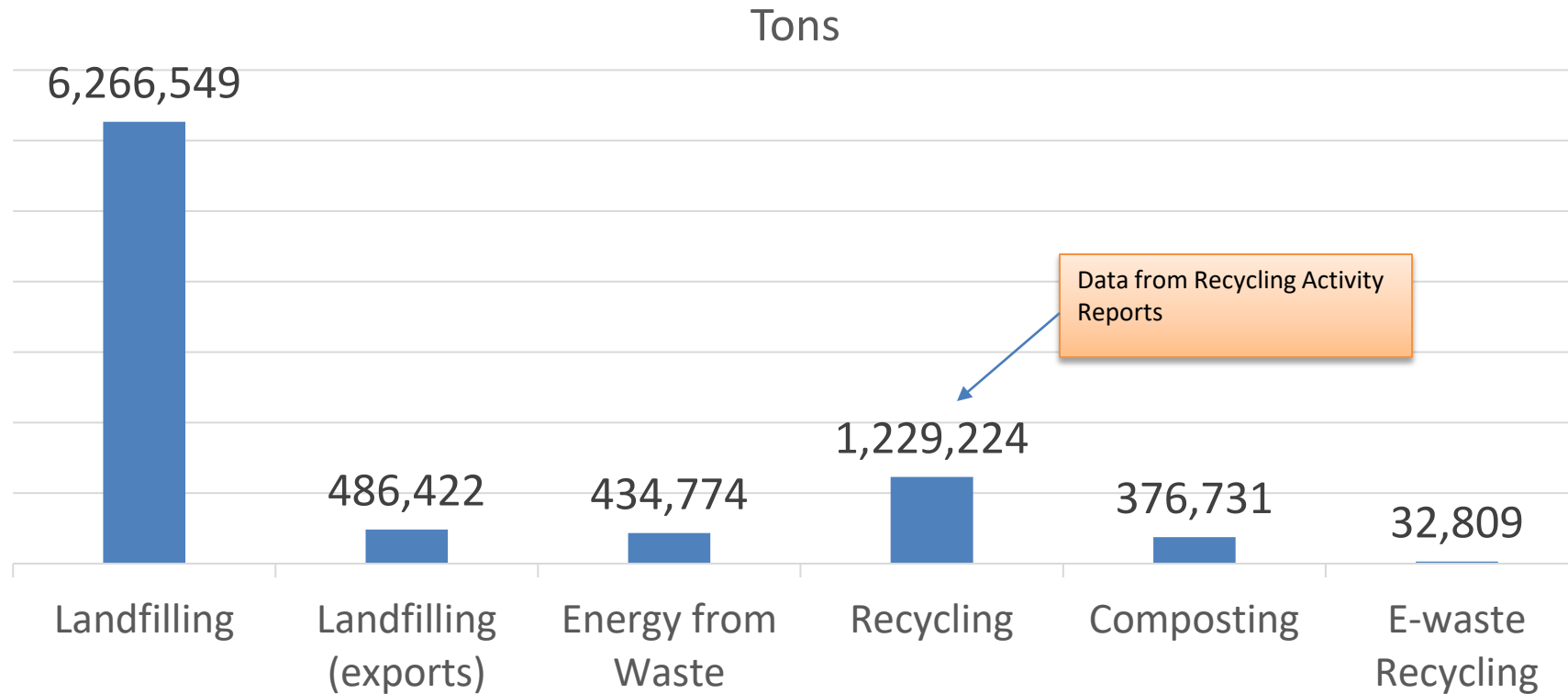
- State recycling goal was passed by legislation (HEA 1183) in 2014
- Covers recyclables from municipal solid waste (MSW) in the residential sector as well as the commercial/institutional/and industrial sectors
- Indiana's 2019 recycling rate remained steady at nearly 19% with more than 1 million tons of recyclables

## Mandatory Reporting

- Recyclers must report, in tons, the types of recyclable material from Indiana MSW origins that it ships to in-state recycling facilities, in-state manufacturers/end users, or out-of-state destinations
- Includes MRFs, transfer stations, SWMDs, and brokers
- Reporting from facilities that generate recyclables is voluntary
- Metal processing facilities are exempted

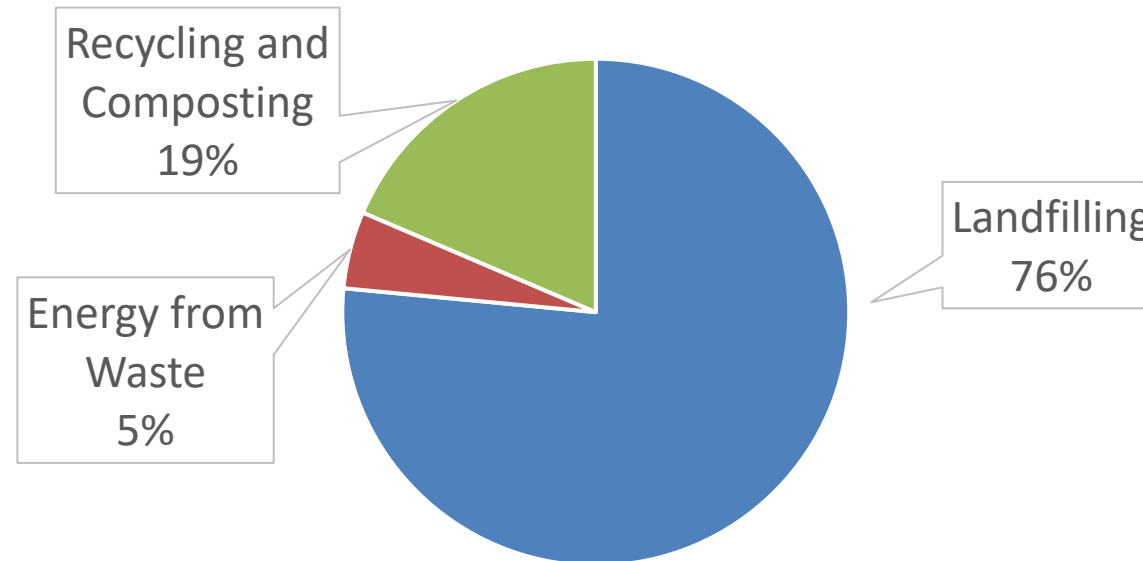


# 2019 MSW Generation



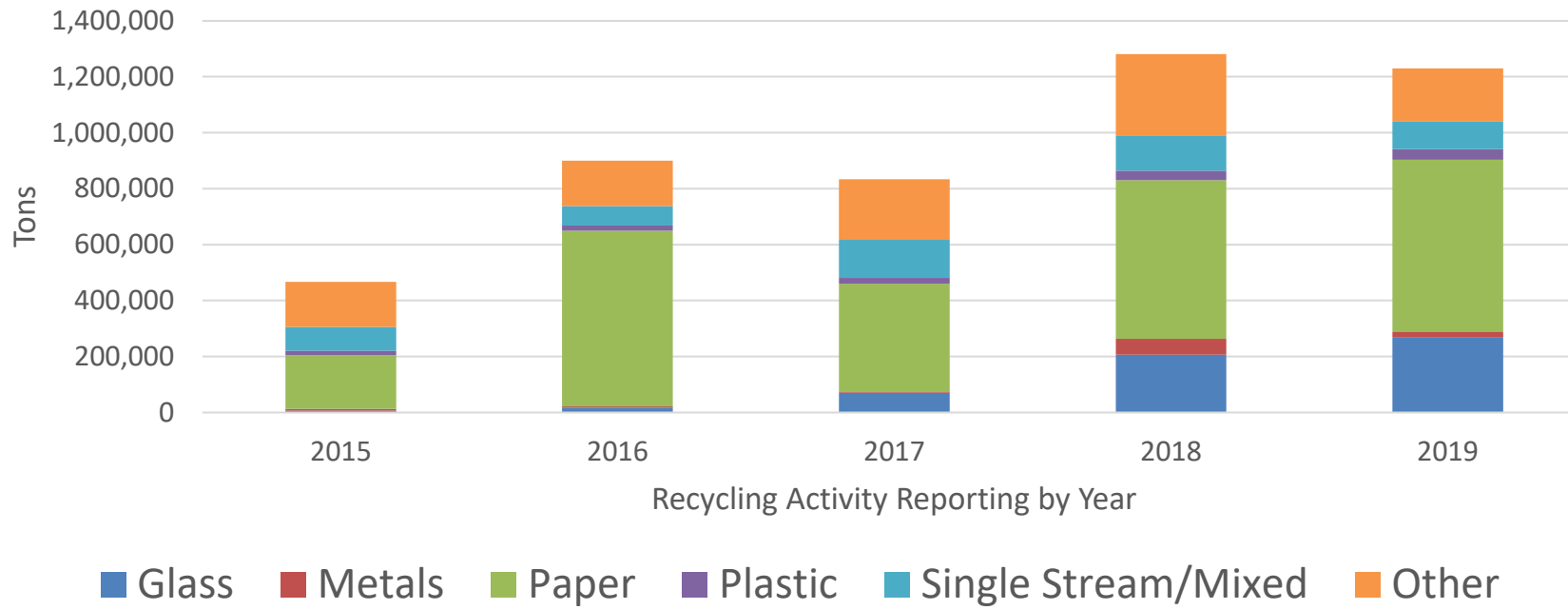


# Final Destination of MSW Tons (%)



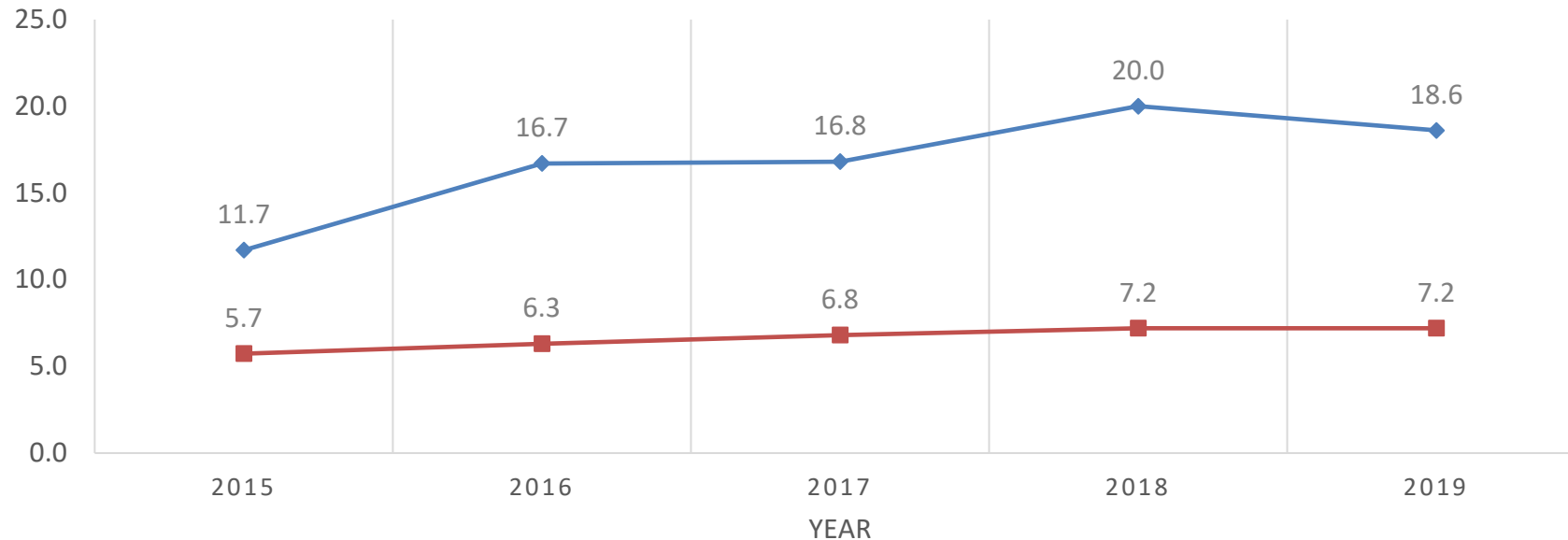


# Annual Shipments of Recyclables





# Solid Waste Metrics



—◆— Recycling Rate (%)

—■— MSW Generation (lbs/person/day)





## Indiana Department of Environmental Management





## Background

The Indiana E-Cycle Program began on July 1, 2009

### Purpose:

- Reduce amount of e-waste in Indiana landfills
- Ensure proper and environmentally responsible management of hazardous substances
- Recovery of valuable materials (precious metals, glass, plastic, and steel)

### Key Stakeholders:

- Manufacturers, Collectors, & Recyclers





# Covered Electronic Devices (CEDs)

- Televisions
- Computer monitors
- Computers (including desktops, laptops, and tablets)
- E-readers
- Fax machines
- Peripherals (including keyboards, mice, external hard drives, printers, all-in-one printer/scanner/copiers, projectors, and any other devices that are sold exclusively for external use with a computer and provide input into or output from a computer)
- DVD players (including gaming systems that are able to play DVDs)
- Digital photo frames
- Digital media players
- iPods/MP3 players
- Camcorders/cameras
- DVR/TiVo devices (including cable boxes and satellite boxes, but not satellite dishes)
- Portable GPS navigation systems





## Collectors

- Collect covered electronic devices from covered entities and arrange for recycling.
- E-Cycle Collectors must submit a registration and annual report by March 1.
- 99 registered E-Cycle collectors.
- Total CEDs collected in 2019: 29.2 million pounds.



*E-Waste collection event held in Indiana.*





## Recyclers

- Accept discarded covered electronic devices (CEDs) from covered entities or collectors for the purpose of recycling.
- E-Cycle Recyclers must submit a registration and annual report by March 1.
- 23 registered E-Cycle recyclers
- Total CEDs recycled in 2019: 27.7 million pounds.
- E-Cycle recyclers have recycled over 300 million pounds of CEDs since the program was established in 2009.



*Partially processed electronic devices at facility located in Indiana.*



## Manufacturers

- Annual registration and reporting requirements for manufacturers that sell video display devices (VDDs).
- 60% Recycling Goal.
  - Manufacturer responsible for collection and recycling
- 75 manufacturers registered with E-Cycle program.
- Manufacturers collectively had 16.8 million pound recycling obligation for past program year.
- E-Cycle Manufacturers must submit a registration and annual report by March 1.



*Indiana's E-Cycle Program is an Extended Producer Responsibility Program*



# Disposal Prohibition

- A covered entity (Indiana household, public school, small business) may not knowingly do any of the following:
  - Mix or allow the mixing of a CED or any other computer, computer monitor, printer, or television with municipal waste that is intended for disposal at a landfill.
  - Mix or allow the mixing of a CED or any other computer, computer monitor, printer, or television with any waste that is intended for disposal by burning or incineration.



*Most electronics cannot be thrown in the trash.*



*Office of Program Support — Recycling Market Development Program*

# **RECYCLING MARKET DEVELOPMENT PROGRAM**



Administered by:  
IDEM Office of Program Support

Assistant Commissioner:  
Julia A. Wickard

Program Manager:  
Deanna Garner





# Recycling Market Development Program

## **Background:**

Established in early 1990s to improve management of solid waste by developing markets for recycling



## **Funding:**

Provided through the Recycling Promotion and Assistance Fund (IC 4-23-5.5-14)

## **Administration:**

Administered by IDEM and operated under the Recycling Market Development Board (IC 4-23-5.5)

## **Mission:**

Promote innovative projects to make Indiana a leader in recycling and waste reduction



# Recycling Market Development Program

## Recycling Market Development Board

### Current Voting Members:

- **Bruce Burrow**; Rumpke of IN LLC  
Southern District
- **Matt Gratz**; City of Fort Wayne  
Solid Waste/Recycling Manager
- **Terry L Guerin**; Southside Landfill, Inc.  
National Waste and Recycling Association  
Midwest Region Chapter Leader
- **Kelly Weger**; Purdue Manufacturing Extension Partnership (MEP)  
Lead Service Manager, Sustainability
- **Tara Wesseler-Henry**; Indiana Dept of Agriculture  
District Support Specialist, Div of Soil Conservation
- **Debbie Hackman**; Jackson County Recycling District  
Executive Director
- **Craig Lutz**; Republic Services  
Manager, Municipal Services
- **Andrew Nunan**, ERI, Inc.  
Senior Operations Manager
- **Sandy Whitehead**; Dearborn County Solid Waste Mgmt District  
Director

### Ex-Officio Advisory Members (non-voting)

- Governor (or their representative)
- Commissioner of IDEM (or their representative) - **Julia Wickard**
- Director of DNR (or their representative) – **Chris Smith**
- Two members of the House of Representatives(each of opposite party): **Representatives Sue Errington and Donna Schaibley**
- Two members of the senate (each of opposite party) – **Senators Jean Breaux and Brian Buchanan**

# Recycling Market Development Program

RM DP works with Indiana businesses, schools, not for profits, municipalities, and solid waste management districts by funding projects that:

- Build markets for recyclables through economic development opportunities
- Promote use of recycled-content products
- Focus on moving materials past collection and into the marketplace
- Encourage schools and businesses to reduce waste



# Recycling Market Development Program

## Project Types:

- Equipment to process recyclable materials, including wood waste, construction and demolition materials, food waste, and reclaimed asphalt pavement
- Implementation/expansion of curbside recycling programs
- Expansion of hub & spoke recycling operations
- Studies and Research Projects
- Education and outreach initiatives

# Recycling Market Development Program

# Fiscal Year 2021 Grants Awarded Sept 24, 2020

BUSINESS			
1	Elliott Company of Indianapolis, Inc	Marion County	\$18,184.44
2	Recycling Works, Inc.	Elkhart County	\$478,599.06
3	Technology Recyclers	Marion County	\$97,500.00
GOVERNMENT			
4	Richmond Sanitary District	Wayne County	\$220,000.00
SOLID WASTE MANAGEMENT DISTRICT			
5	Dearborn County SWMD	Dearborn County	\$15,212.50
6	Rush County SWMD	Rush County	\$10,050.00
NONPROFIT			
7	ReTHink, Inc	Vigo County	\$10,454.00
8	Tri-State Resource Recovery Center (TSRR)	Vanderburgh County	\$150,000.00
		\$1,000,000.00	



# Recycling Market Development Program

Since 2008:

- Number of projects awarded funding: 108
- Total amount awarded: \$8,823,940
- Projected jobs created: 850
- Waste diverted: over 1 million tons annually



# Recycling Market Development Program

## Board Priorities:

- Divert significant tonnage of solid waste from landfills
- Promote curbside recycling throughout Indiana
- Create a better domestic market
- Support organics recycling
- Capture more plastic material for the recycling market
- Analyze cost/benefits of recycling and increase education efforts
- Encourage waste reduction in schools
- Focus on economic development (distressed areas) and job growth
- Improve the management of electronic waste
- Develop innovative technologies
- Increase awareness of recyclable items



# Recycling Market Development Program

## Recycling Infrastructure and Economic Impact Study (RIEIS)

In the board's meeting on March 12 of this year, under the authority of IC 4-23-5.5-9(4), the board awarded grant funding to GT Environmental to conduct the Recycling Infrastructure and Economic Impact Study (RIEIS).

**Purpose:** The RIEIS will evaluate and analyze Indiana's current recycling infrastructure, including materials and markets, with the purpose of determining investment needs and opportunities within the circular economy.

**Outcome:** This evaluation will provide key analysis for economic development, program development, and legislation necessary for a more sustainable solid waste system.





# Recycling Infrastructure and Economic Impact Study (RIEIS)

## Goals

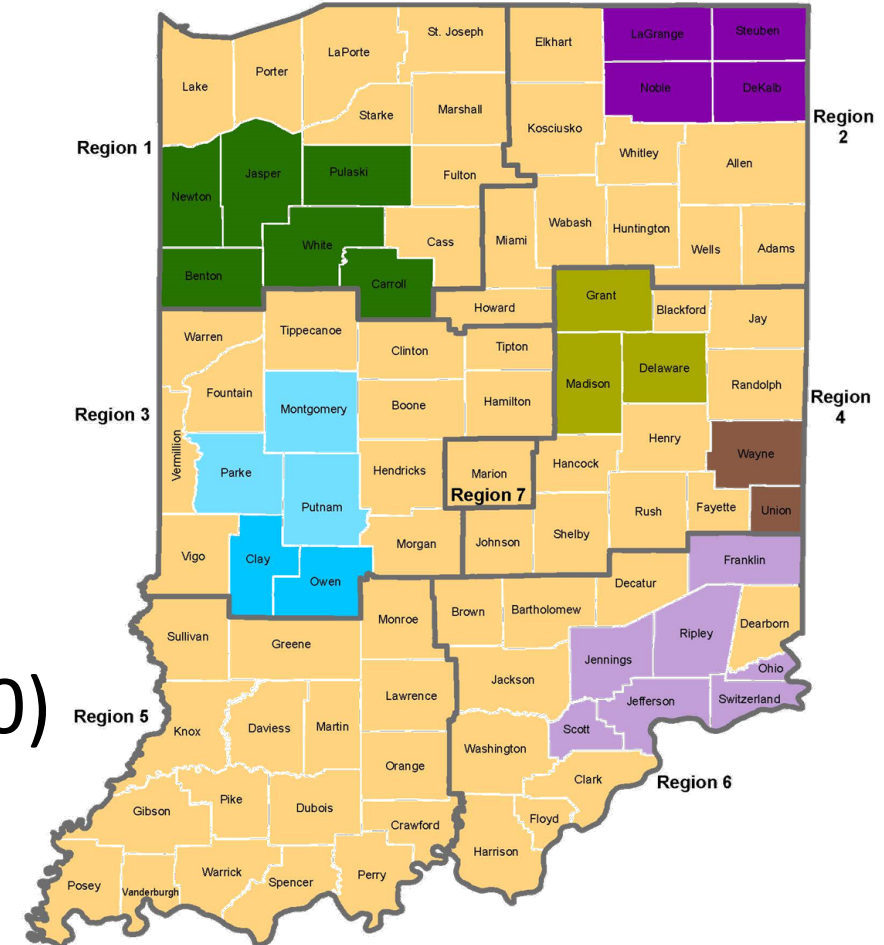
- Task 1: Determine Indiana's municipal solid waste and recycling infrastructure.
- Task 2: Assess the collection infrastructure needs and development opportunities associated with recycling.
- Task 3: Study the economic impact of recycling on the state's economy and how it relates to collection and sorting.
- Task 4: Analyze and summarize the findings and provide recommendations.

# Recycling Infrastructure and Economic Impact Study (RIEIS)

Indiana Recycling Infrastructure & Economics Study  
Regions for Student Analysis

## Progress:

- Stakeholder Meetings
- Work Plan
  - 7 Regions
  - IUPUI Students conducting surveys
- Survey Distribution and Data Collection
  - Solid Waste Management Districts (~70)
  - Cities and Towns (~500)
  - Manufacturers and End Users



# Community Recycling Grant Program

**Established in 2019, the Community Recycling Grant Program aims to assist communities' efforts to increase recycling through:**

- Education and promotion of recycling
- Processing of recyclable materials
- Waste reduction
- HHW and organics management (including yard waste management and composting)
- Solid waste management districts (SWMDs), cities, counties, municipalities, schools, and non-profit organizations are eligible for grant amounts ranging between \$500-\$50,000
- During the FY20 grant round, 34 projects were awarded





# How can I find a place to recycle \_\_\_\_\_?

- [RecycleSearch](#)
- [Earth911](#)
- [Association of Indiana Solid Waste Management Districts](#) (AISWMD)
- Indiana Recycler List (IDEM excel sheet)
- [IDEM Office of Program Support](#)

# Keep in Mind...

- Not everything is recyclable
  - Mixed materials
  - Unavailability of recycling facilities
- Markets & technologies change
- Reduction and reuse are higher on the waste management hierarchy



Image source: [www.epa.gov](http://www.epa.gov)



# Questions?

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