



CITY OF BEND

MEMO

To: Waste and Materials CCAP Update Workshop Attendees

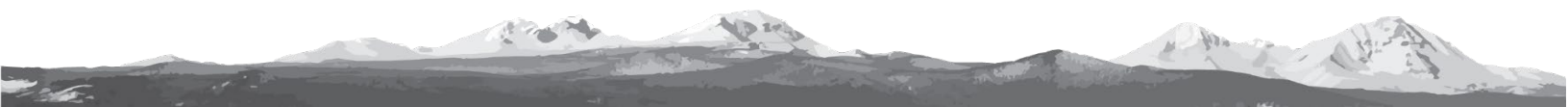
From: Cassie Lacy, Senior Management Analyst

Date: 7/10/2024

Re: Waste and Materials Funding Opportunities, Existing CCAP Actions, and Additional Data

Waste and Materials Related Funding Opportunities

- **Recycling Modernization Act Producer Responsibility Organization (PRO) Funding.**
 - Available to local governments to compensate for:
 - Transportation recycling long distances
 - Expanding recycling services
 - Implementing contamination reduction programming
- **Oregon Department of Environmental Quality Materials Management Grants Program:**
 - May be used for education and outreach, training, research, program, project or policy development, and workforce development to promote waste reduction and reuse
 - Project funding ranges from \$25,000 to \$125,000. ODEQ will disburse \$1 Million in funds during the first cycle
- **EPA Solid Waste Infrastructure for Recycling Grants for Communities (IIJA).**
 - Project funding ranges from \$500,000 to \$4,000,000
 - Projects must achieve one of the following objectives:
 - Establish, increase, expand or optimize collection and improve materials management infrastructure
 - Fund the creation and construction of tangible infrastructure, technology, or other improvements to reduce contamination in the recycled materials stream
 - Establish, increase, expand or optimize capacity for materials management
 - Establish, increase, expand or optimize end markets for the use of recycled commodities
 - Demonstrate a significant and measurable increase in the diversion, recycling rate, and quality of materials collected for municipal solid waste



- **USDA Composting and Food Waste Reduction Cooperative Agreements**
 - Composting and Food Waste Reduction (CWFR) cooperative agreements assist local and municipal governments with projects that develop and test strategies for planning and implementing municipal compost plans and food waste reduction plans. Implementation activities will increase access to compost for agricultural producers, improve soil quality, and encourage innovative, scalable waste management plans that reduce and divert food waste from land fills
 - Requires a 25% match which can be met through funds, in-kind contributions, and partner contributions
 - Project funding ranges from \$75,000 to \$400,000

Waste and Materials CCAP Strategies

W1 – Improve waste recovery through recycling

- W1A – Improve recycling at multifamily residences by ensuring multifamily developments offer recycling services and have adequate infrastructure to encourage recycle
- W1B – Improve multifamily recycling by expanding and improving outreach and education at multifamily buildings
- W1C – Develop a recycling and waste reduction program targeting tourists, including hotels and resort communities
- W1D – Support the expansion of solid waste infrastructure and facilities needed to increase waste recovery and meet the long-term needs of the solid waste system, in partnership with Deschutes County and private waste companies.

W2 – Expand use of low carbon concrete in City projects and new development

- W2A – Track concrete use in City projects and increase the use of low carbon concrete in City projects
- W2B – Create incentives to encourage low carbon concrete in private development

W3 – Improve food waste recovery

- W3A – Increase participation in curbside food waste collection
- W3B – Develop and deliver educational program that teach and encourage residents to compost their food waste

W4 – Improve recovery of construction and demolition waste

- W4A – Expand and develop new programs to increase the recovery of construction and demolition materials

W5 – Encourage waste prevention and reducing consumption through outreach and education

- W5A – Conduct outreach campaigns that promote waste prevention and reduce consumption. Connect local residents and businesses to local resources that reduce waste, like repair cafes
- W5B – Implement training programs for specific industries to prevent waste, such as the building and construction industry and the food and restaurant industry. Identify and prioritize these industries based on local waste generation data

W6 – Encourage food waste prevention through outreach and education

- W6A – Conduct outreach campaigns that promote food waste prevention and low carbon food waste choices

Additional Waste & Materials Data

Figure 1. Bend's 2021 Local GHG Emissions (left) and Local + Importated GHG Emissions (right)

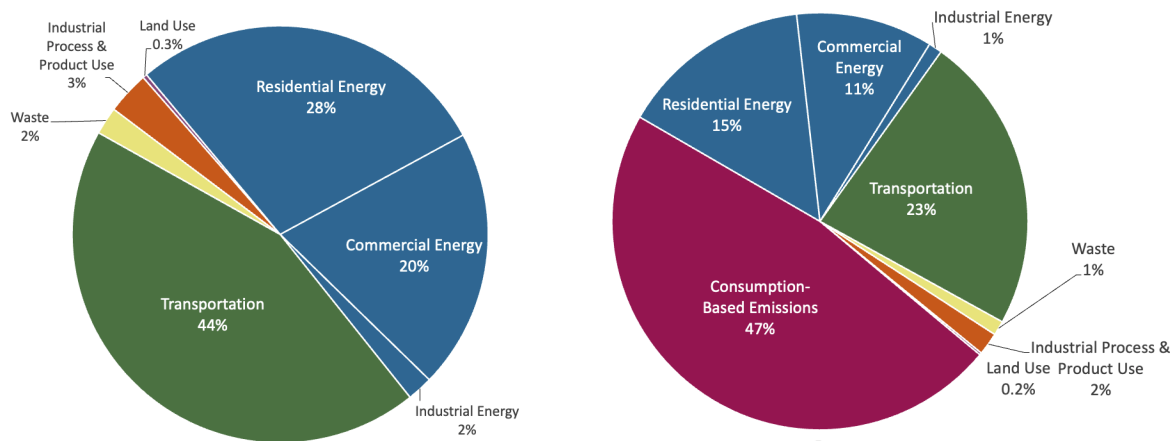


Figure 2. Bend's Scope 3 emissions by category

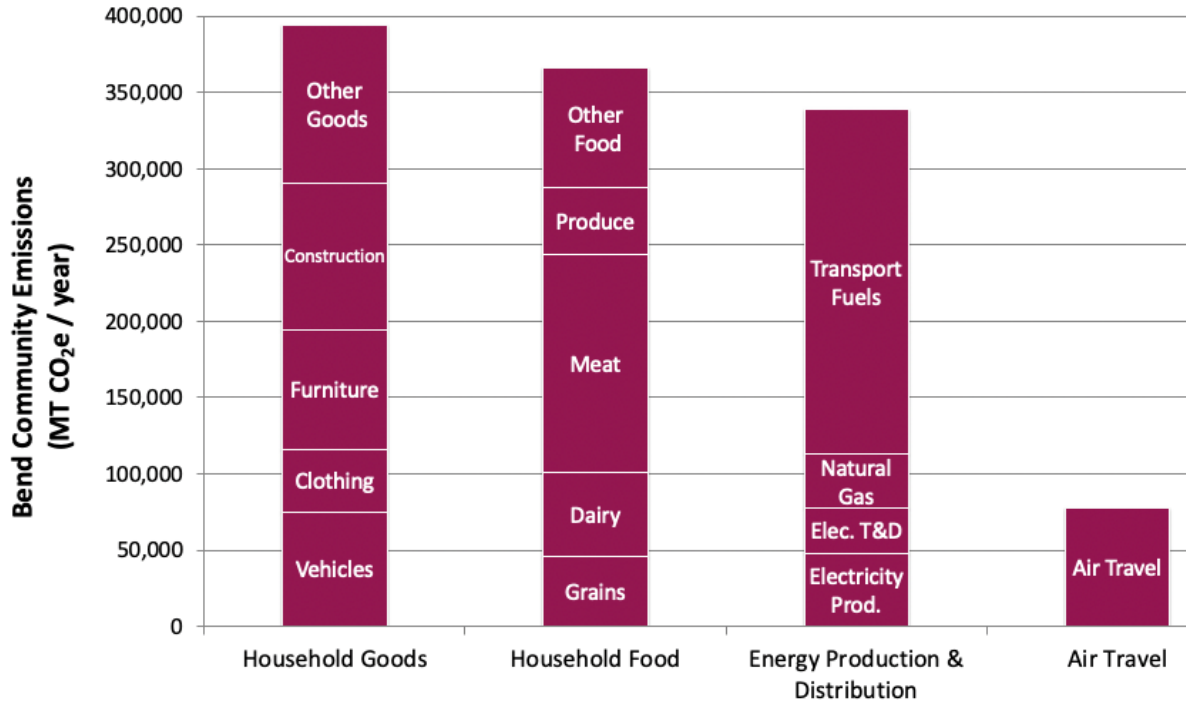


Figure 3. Solid waste GHG emissions

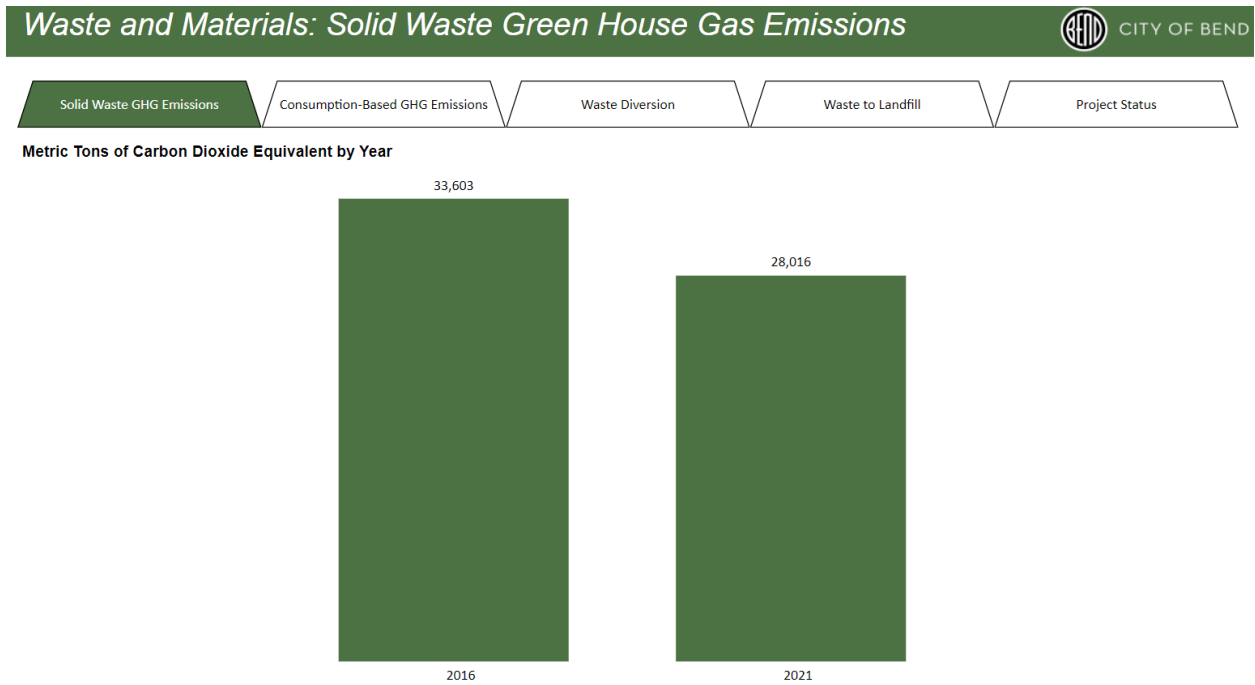


Figure 4. Consumption-based GHG emissions

Waste and Materials: Consumption-Based Green House Gas Emissions



Metric Tons of Carbon Dioxide Equivalent by Year

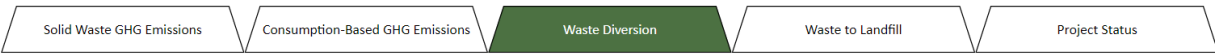


Per Capita Metric Tons of Carbon Dioxide Equivalent Year



Figure 5. Waste diversion rates

Waste and Materials: Waste Diversion



Percent by Year

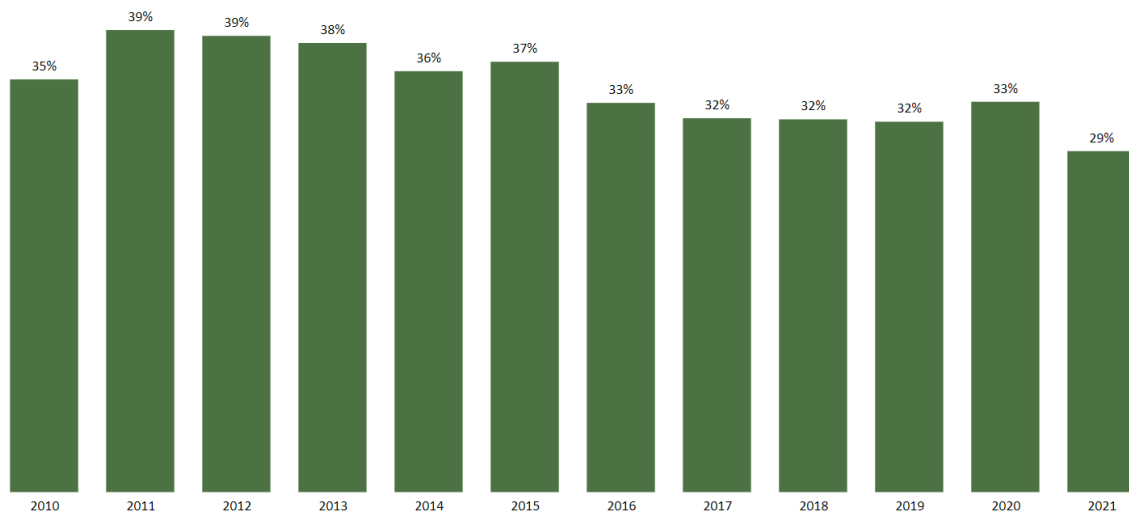


Figure 6. Waste to landfill weight



Table 1. Emissions in 2016 vs 2021

Inventory Year	Building Energy MT CO ₂ e	Transportation MT CO ₂ e	Waste Disposal MT CO ₂ e	Refrigerants MT CO ₂ e	Land Use Change MT CO ₂ e
2016	641,490	449,307	33,603	39,370	n/a
2021	660,446	574,586	28,016	43,440	4,329
% Difference	+3%	+28%*	-17%	+10%	n/a

Inventory Year	Goods Production MT CO ₂ e	Food Production MT CO ₂ e	Fuel Production MT CO ₂ e	Air Travel MT CO ₂ e
2016	278,523	263,569	279,364	52,570
2021	393,802	365,624	338,460	77,561
% Difference	+41%	+39%	+21%	+48%

Inventory Year	Local Emissions Total	Per capita	Imported Emissions Total	Per capita	Community Total	Per capita
	MT CO ₂ e	MT CO ₂ e	MT CO ₂ e	MT CO ₂ e	MT CO ₂ e	MT CO ₂ e
2016	1,163,771	13.9	874,025	10.5	2,037,796	24.4
2021	1,310,817	12.8	1,175,447	11.5	2,486,264	24.4
% Difference	+13%	-8%	+35%	+10%	+22%	-0.2%