

November JSC Sustainable Procurement Program update

Nov 15, 2023



OFFICE OF
SUSTAINABILITY

CITY OF AUSTIN



Sustainable Procurement Program Refresh

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- A vertical timeline graphic on the left side of the slide. It consists of a dark blue vertical line with four circular markers. Each marker is a dark blue circle with a smaller orange circle in the center. The markers are positioned at the top, bottom, and at two intermediate points, creating three equal segments.
- Timeline
 - Program development supported by SPLC
 - Next Steps

Sustainable Procurement Initiatives

- 2004 Air Quality Improvement Through contracting preference
- 2005 United Nations Urban Environmental Accords Zero Waste by 2040
- 2007 Carbon Neutrality Plan, Sustainability Standards in Municipal Projects
- 2008 Responsible (Green)” Purchasing Program initiated ;
Resolution to Eliminate Purchasing of Plastic Bottles
- 2014-2017 Internal training materials developed
- 2018 Sustainable Procurement Program policy vision text developed
- 2020 Climate Equity Plan goals adopted
- 2022 Baseline Procurement Emission Inventory Year w/ Parametrix
- 2023 SPLC Sustainable Procurement Program support

Sustainable Procurement Leadership Council Coaching

SP Foundations+

- Four virtual 1-hour workshops over a 2 –4-month period, plus additional SPLC staff consulting hours for set hourly rate
- 1 – 4 people from the same organization
- Activities: document existing organizational commitments/priorities/activities; fine tune vision and define program; filter goals by feasibility and impact; work through strategy cycle for selected strategies
- Outputs: organizational inventory, program vision and charter, strategic program plan including goals & strategies, recommended resources for your program
- Quarterly check-ins with SPLC staff

SP Program Components

□ - Vision

× - Program Charter

□ - Establishing Goals and Metrics

× - Strategy Development

× - Staff Engagement and Accountability

Strengthening the City's sustainable procurement program

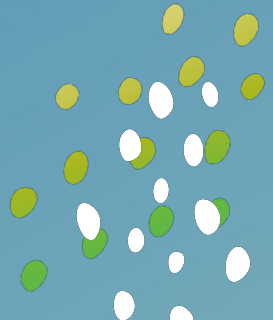
A **program charter** defines the ways in which our program will work toward the vision and includes:

- ✕ Program objectives
- Program and Resource Commitments *
- ✕ Program Structure
- ✕ Prioritization
- Focus Areas
- ✕ Metrics for Success
- ✕ Continuous Improvements

Next Steps:

Continue sustainable procurement program coaching with SPLC

Develop a Plan to spend 2023-2024 budgeted \$100K on sustainable procurement program development



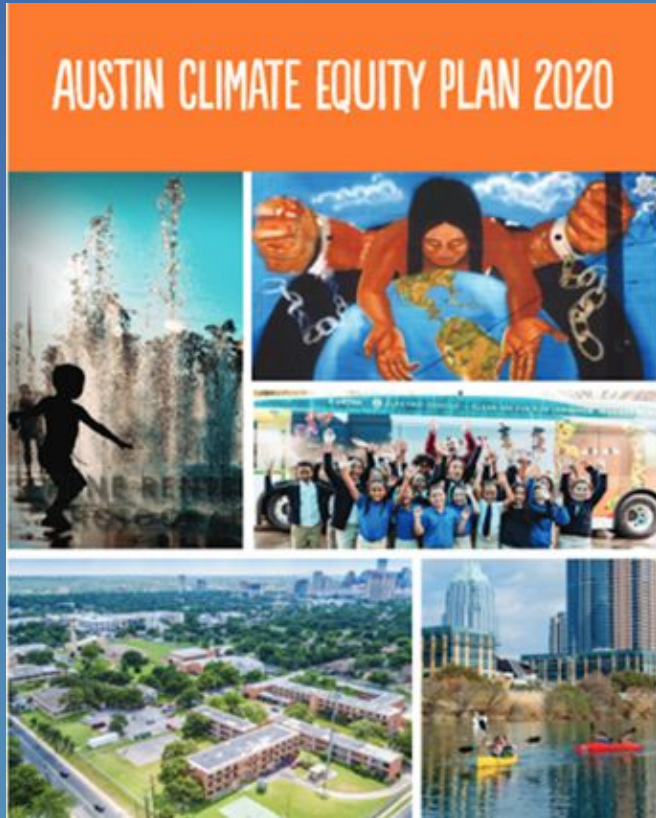


Sustainable Procurement Program Focus Area Update:

Procurement Emissions and Impacts

- Procurement Inventory Intro
- Preliminary Results
- Next Steps

Climate plan and Procurement

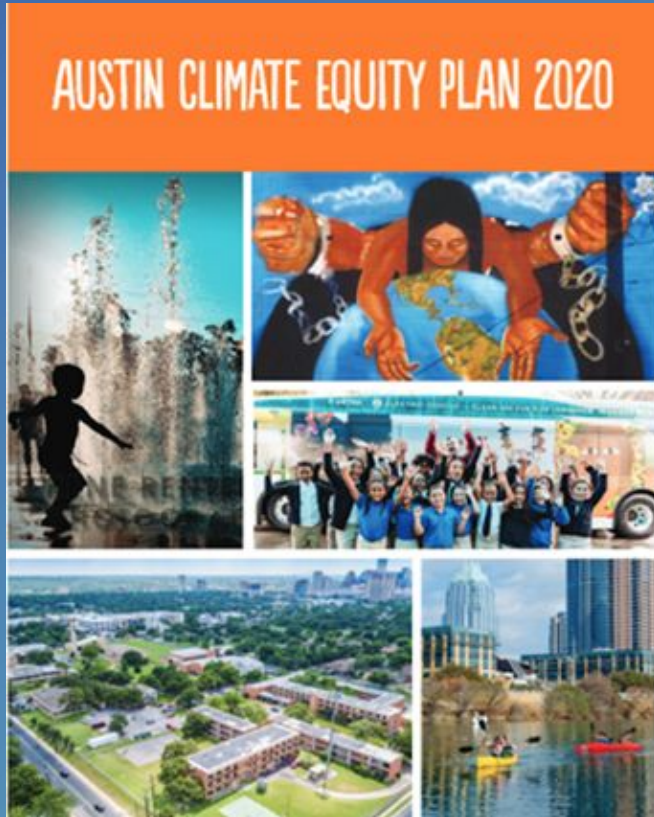


Food and Product Consumption Goals

Goal 2: By 2030, reduce greenhouse gas emissions from institutional, commercial, and government purchasing by at least 50%.

1. Measure institutional lifecycle emissions
 - Develop a methodology to measure lifecycle *greenhouse gas emissions* and other environmental and social impacts *from non-residential purchasing* and identify a baseline for progress
2. Strengthen the City's sustainable purchasing program
3. Strengthen non-City institutional purchasing programs
4. Expand the City's Circular Economy Program

Climate plan and Procurement



Food and Product Consumption Goals

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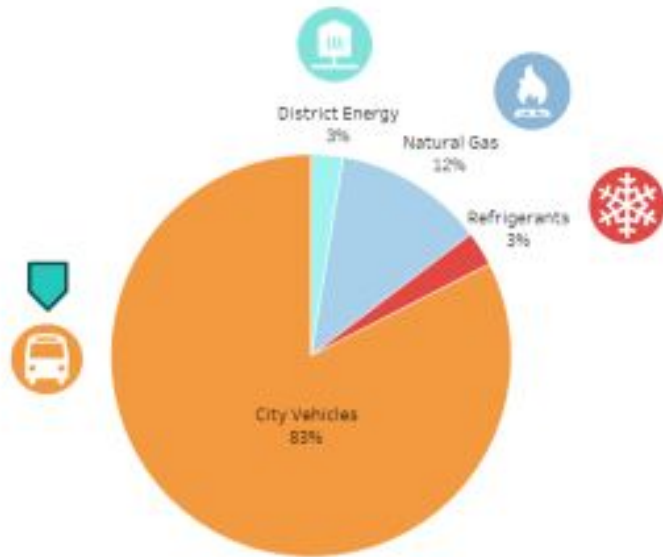
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Carbon Emission “Scopes”



City of Austin Municipal Footprint

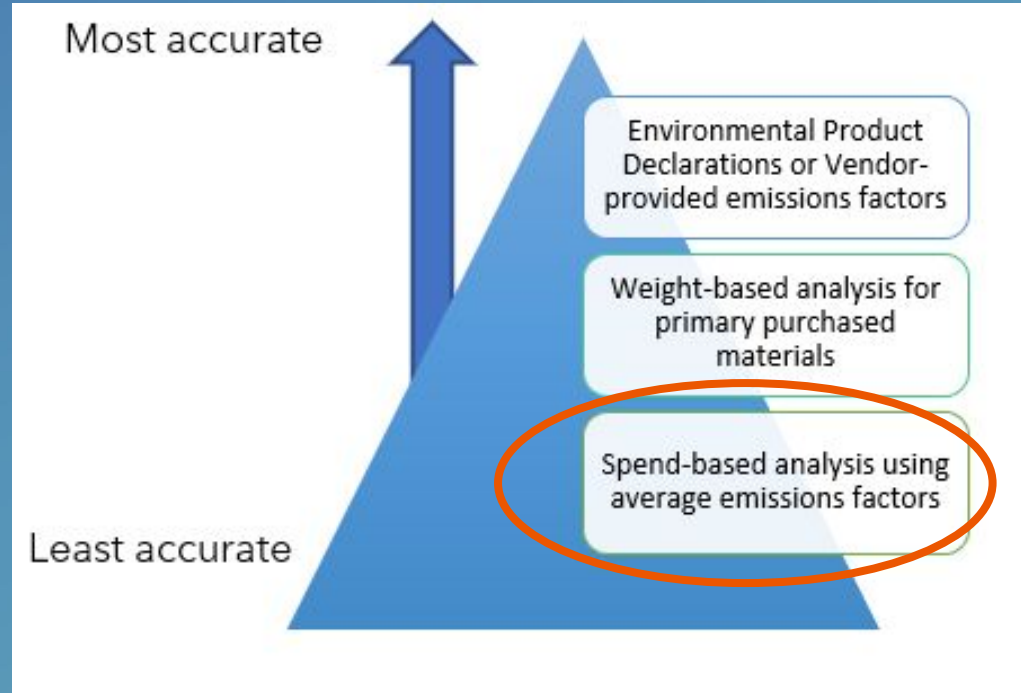
Scopes 1 and 2



2022 Net Emissions: 44k metric tons CO₂e

Methodology characteristics

- Developed from universally accepted guidance
- Spend-based methodology uses basic industry-wide emissions factors to estimate emissions, and does not consider Austin's spending commitments or use EPDs or vendor provided emissions factors



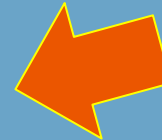
Emissions and Impacts from Purchasing, inventory process:

Basic accounting for
first/baseline year;
Follow-up inventory

Analysis for action
planning and
prioritization

Develop purchasing
emissions reduction
(CO2/\$) strategies

Implement and
monitor



Spending by Category

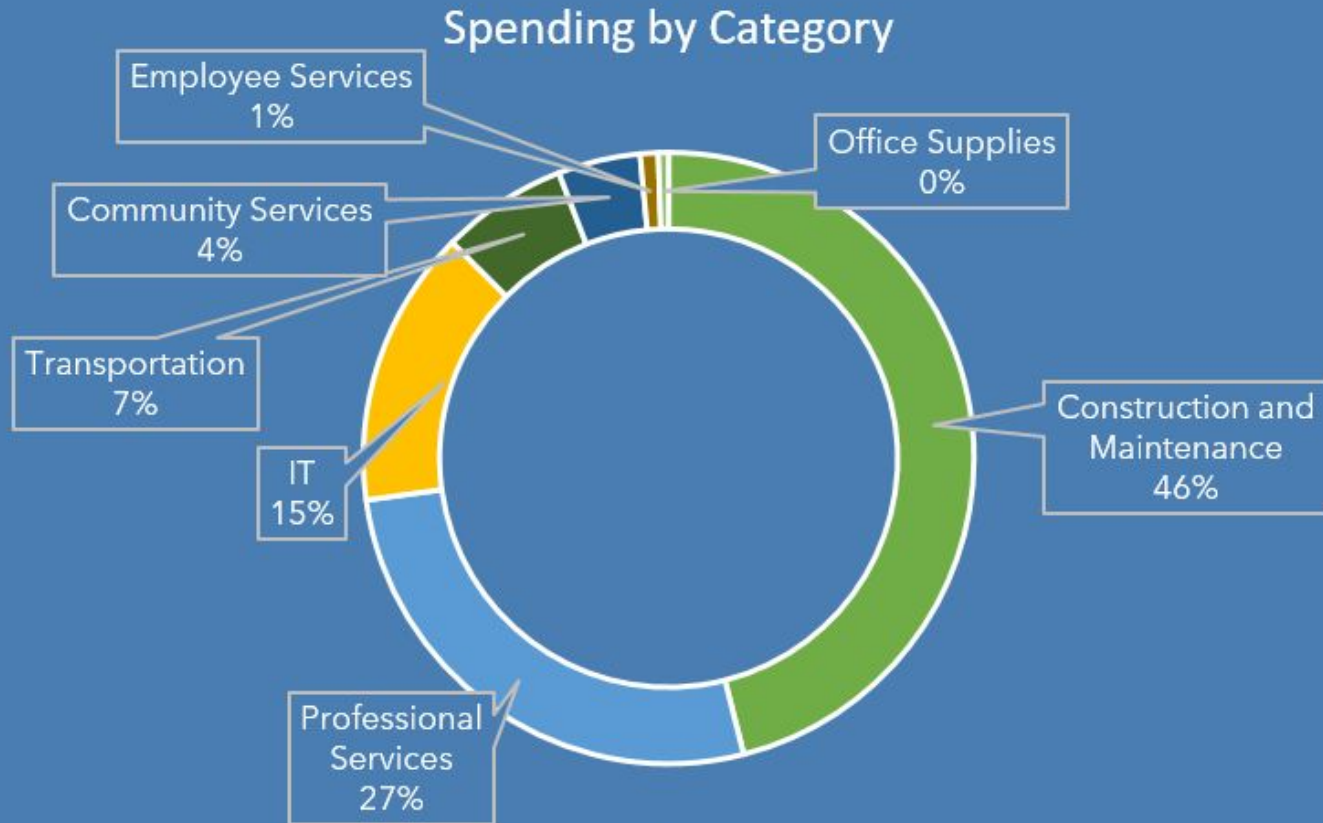


Chart A

Human Respiratory Impacts

Figure 4: Category contributions to HRSP impacts

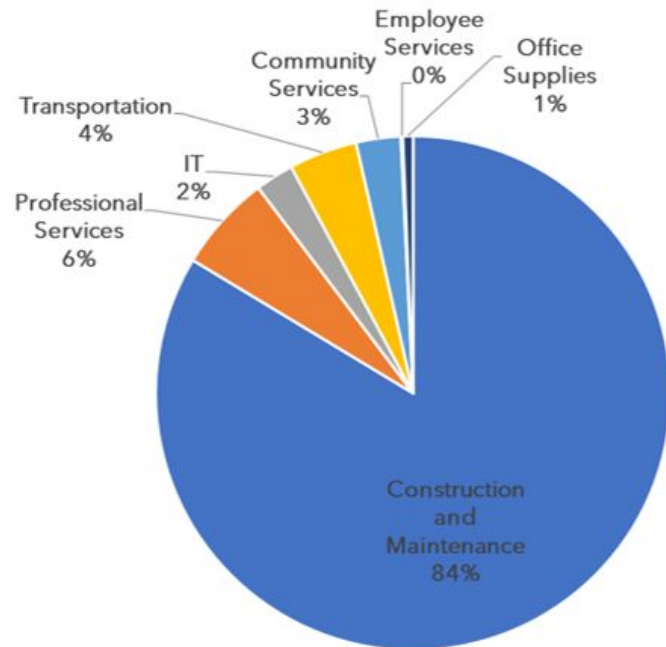


Figure 3: Top 10 HRSP impacts by intensity



ETOX intensity

Figure 6: Category contributions to ETOX impacts

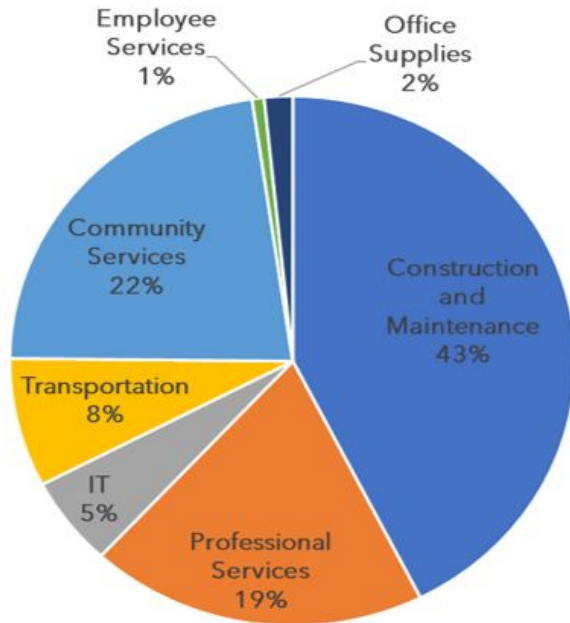
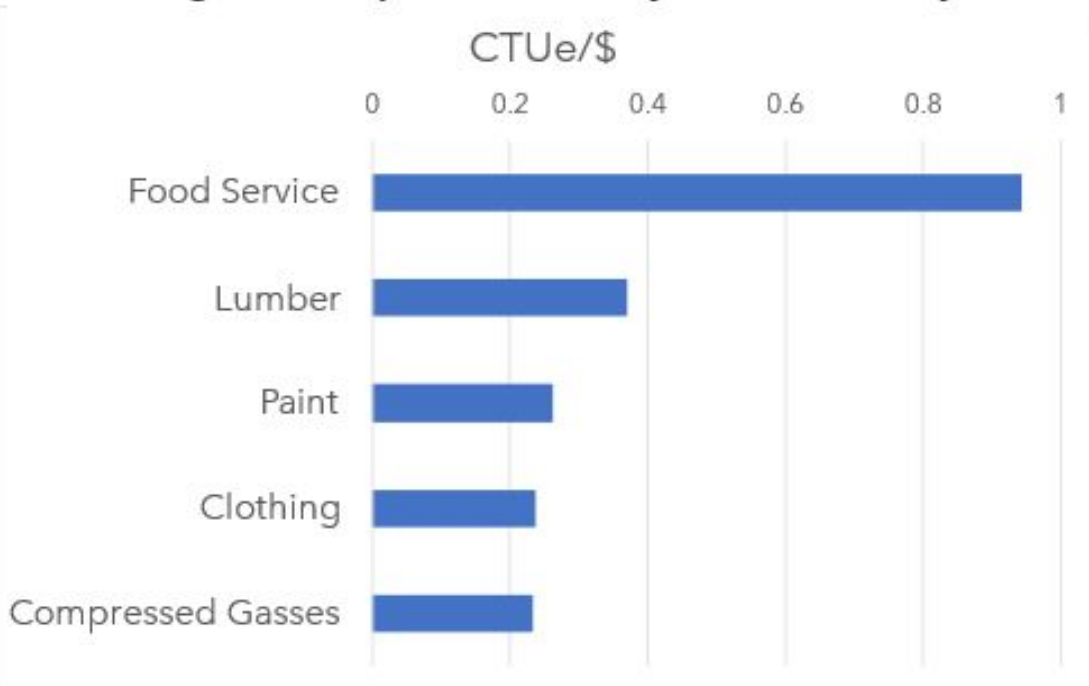


Figure 5: Top 5 Products by ETOX intensity



Water use Intensity

Figure 7: Category contributions to Water Use intensity

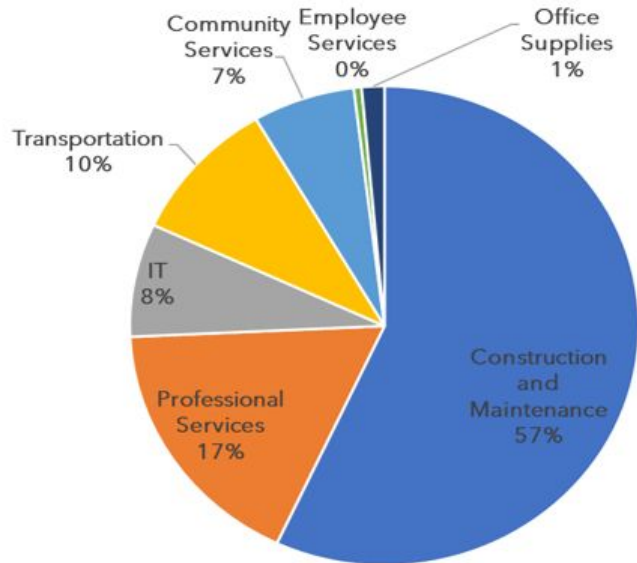
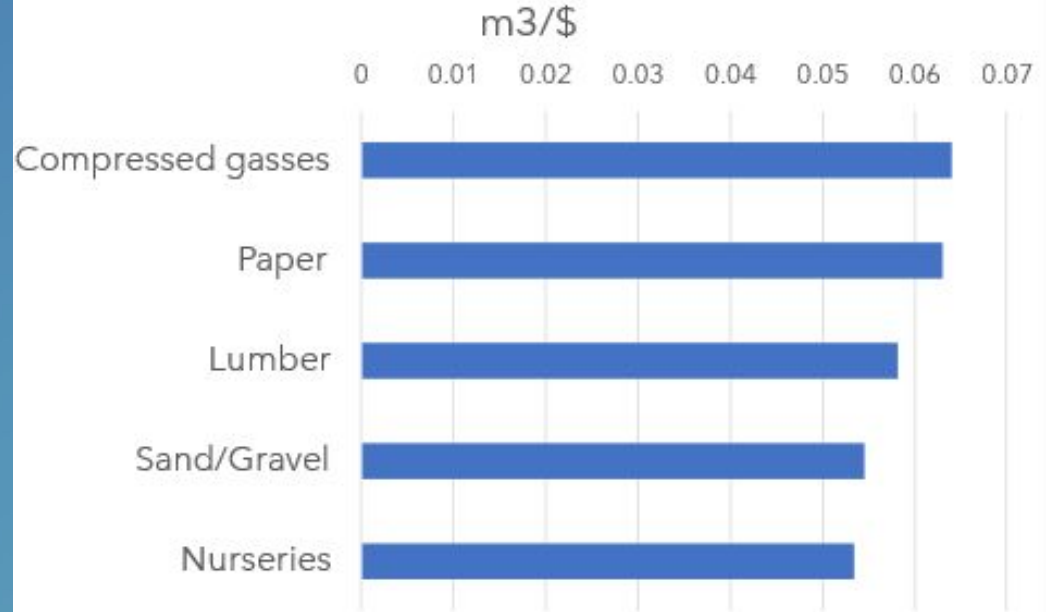


Figure 8: Water use intensity



Energy Impacts

Figure 10 Energy Impacts by Category

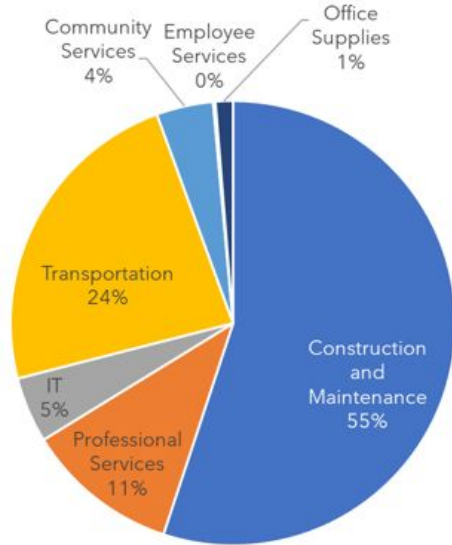
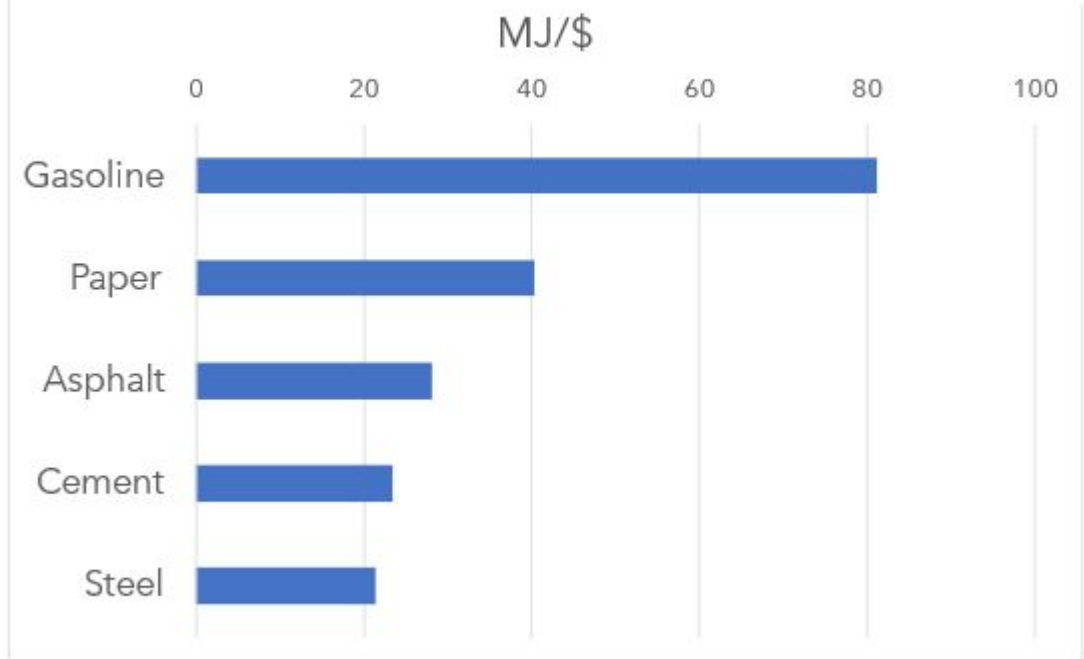


Figure 9: Top 5 products by Energy Use Intensity

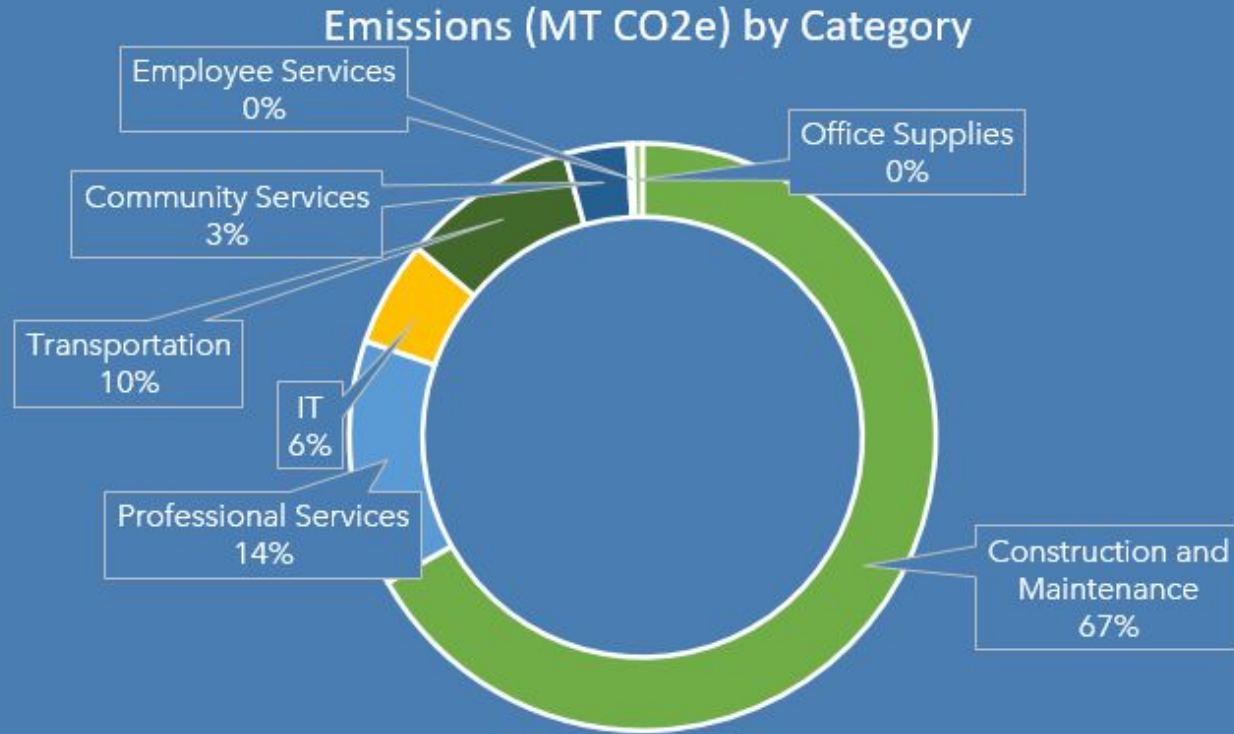


Emissions

by Spending category

		Total Spend \$	GHG Emissions MT CO ₂ e
Construction and maintenance	Capital Construction	\$ 216,809,429	86,544
	Green Space Maintenance	\$ 14,998,125	5,625
	Major Equipment	\$ 45,464,013	12,751
	Operations & Maintenance	\$ 98,461,336	28,616
	Small hardware and accessories	\$ 51,499,611	18,735
	Waste and Recycling	\$ 55,018	53
Professional Services	Consultants	\$ 79,884,641	7,308
	Education & Training	\$ 3,131,863	337
	Engineering	\$ 142,953,767	18,810
	Insurance	\$ 2,877,780	128
	Other	\$ 19,505,916	1,991
IT	Software	\$ 68,649,365	4,494
	Data Services	\$ 18,075,321	1,718
	Hardware and Equipment	\$ 29,123,027	4,278
	IT Services	\$ 20,213,351	1,845
Transportation	Equipment	\$ 1,467,690	166
	Fuel	\$ 9,184,810	5,752
	Maintenance	\$ 1,742,505	568
	New vehicles	\$ 49,597,097	15,027
Community Services	Supplies	\$ 19,769,861	5,068
	Support and Assistance Program	\$ 9,000,226	2,058
	Utility Services	\$ 11,681,675	2,928
Employee Services	Administration	\$ 435,815	36
	Insurance	\$ 7,894,217	319
	Other benefits	\$ 503,878	113
Office Supplies	Furniture	\$ 435,815	36
	Printing & Postage	\$ 7,894,217	319
	Supplies	\$ 503,878	113

Emissions by Spending Category

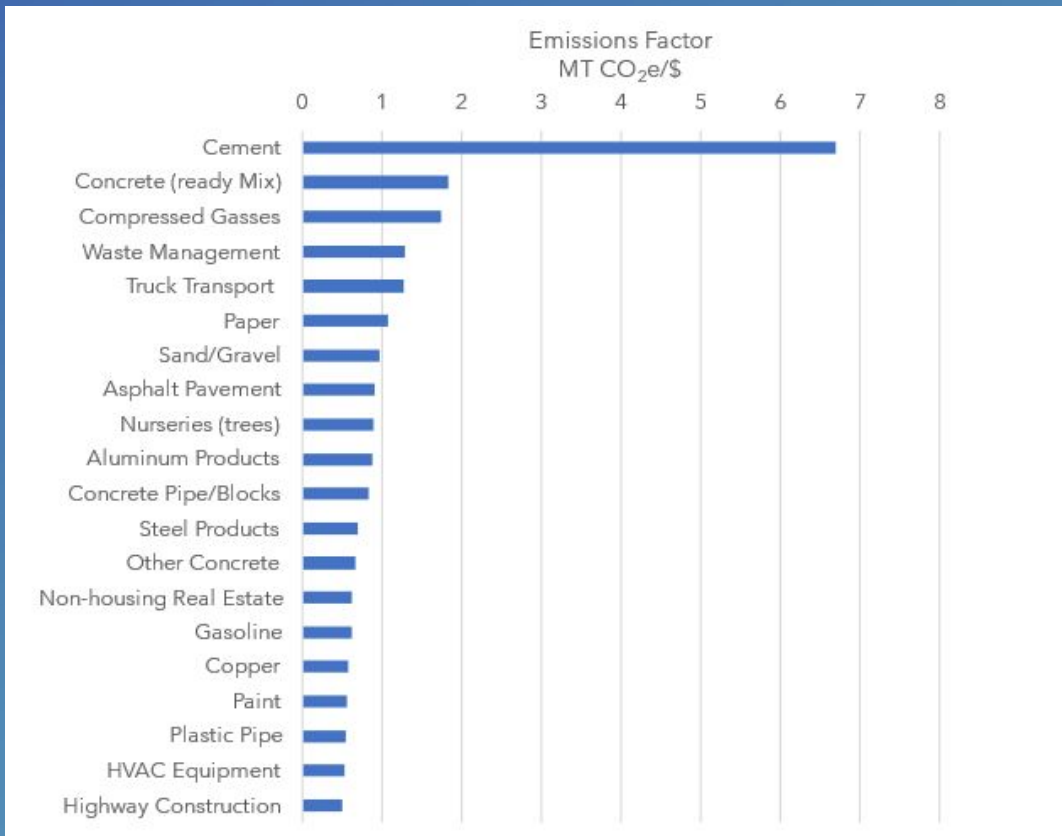


2022 Procurement emissions:
206,000 MT CO₂e

Impact intensities by Spend Category

GHG Emissions MT CO2e/1000\$		
Construction and maintenance	Capital Construction	0.399
	Green Space Maintenance	0.375
	Major Equipment	0.280
	Operations & Maintenance	0.291
	Small hardware and accessories	0.364
	Waste and Recycling	0.970
Professional Services	Consultants	0.091
	Education & Training	0.108
	Engineering	0.132
	Insurance	0.045
	Other	0.102
IT	Software	0.065
	Data Services	0.095
	Hardware and Equipment	0.147
	IT Services	0.091
Transportation	Equipment	0.113
	Fuel	0.626
	Maintenance	0.326
	New vehicles	0.303
Community Services	Supplies	0.256
	Support and Assistance Programm	0.229
	Utility Services	0.251
Employee Services	Administration	0.082
	Insurance	0.040
	Other benefits	0.224
Office Supplies	Furniture	0.082
	Printing & Postage	0.040
	Supplies	0.224

High Intensity Products



Half of the highest intensity commodities are related to construction, and construction has the highest impact in terms of total City spend.

Top vendors

Spend x Industry-wide Emissions factor = Emissions

\$ x eCo2/\$ = eCo2

The top 20 “Tier 1” vendors for the City of Austin procurement in 2022 represent nearly 40% of procurement spending in 2022, and nearly 53% of emissions

Top vendor types:

1. “Construction”
2. “Tech” Utilities
3. “Concrete”
4. “Concrete”
5. “Construction”
6. “Construction”
7. “Petroleum”

Next Steps:

Identify potential actions to reduce procurement emissions

Study recommendations on prioritized spending categories and products

Study recommendations on prioritized vendors, their contracts

Prepare to:

Document and monitor progress through future inventory estimates,

Share process with relevant stakeholders

