December JSC Sustainable Procurement Program and Procurement Emissions Inventory update

December 13, 2023





Sustainable Procurement Program

- Past- Timeline
- Present- Program development supported by SPLC
- Future- Next Steps

Sustainable Procurement Initiatives

- 2004 Air Quality Improvement Through contracting preference.
 - **2005** United Nations <u>Urban Environmental Accords</u> Zero Waste by 2040
- **2007** Carbon Neutrality Plan, Sustainability Standards in Municipal Projects
 - **2008** Responsible (Green) Purchasing Program initiated;
 - Resolution to <u>Eliminate Purchasing of Plastic Bottles</u>
 - 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
- <u>Activities:</u> 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
- <u>Outputs:</u> 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
- x Program Charter
- x Establishing Goals and Metrics
- x Strategy Development
- x Staff Engagement and Accountability

Vision

We envision a future where every purchase we make is a statement of our commitment to sustainability, fostering a balance between people, planet, and prosperity. By choosing climate-friendly, environmentally preferred and ethically-sourced products, and investing in small businesses, we strive to create a positive impact on the environment, communities, and future generations.

Strengthening the City's sustainable procurement program

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

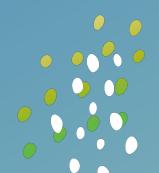
- **x** Program objectives
- **x** Program and Resource Commitments
- **★** Program Structure
- **x** Prioritization
- **x** Focus Areas
- **x** Metrics for Success
- **x** Continuous Improvements

Next Steps:

Continue sustainable procurement program coaching with SPLC

Plan to spend 2023-2024 budgeted \$100K on sustainable procurement program development and climate plan implementation Goal 2 Strategies #1-2





Sustainable Procurement Program Focus Area Update:

Procurement Emissions and Impacts

- Procurement Inventory Intro
- Preliminary Results
- Next Steps

Climate plan and Procurement

AUSTIN CLIMATE EQUITY PLAN 2020

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 <u>methodology</u> to measure lifecycle greenhouse gas emissions and other environmental and social impacts from non-residential purchasing and <u>identify a baseline</u> 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

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Carbon Emission "Scopes"



Fuels you burn directly Transportation fuel Water and space heating fuel



Indirect offsite emissions Electricity District Energy

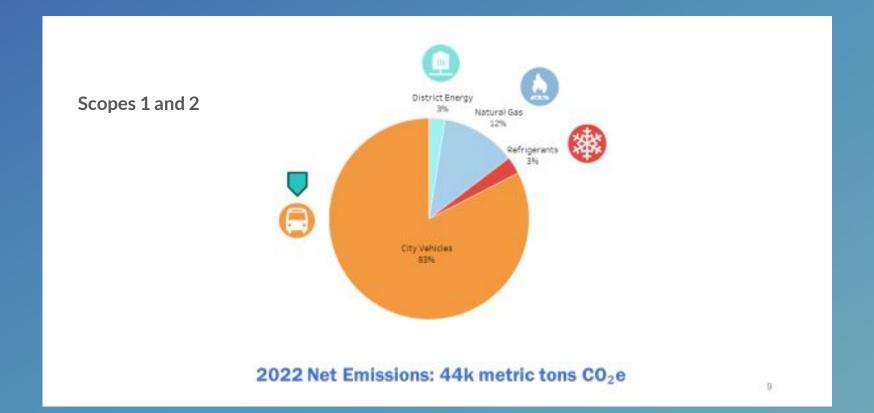


Everything else
Production and delivery of goods and services
Can occur anywhere in the world

Hard to measure

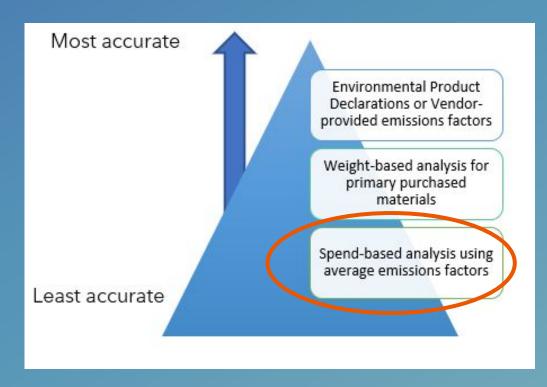
Traditional Carbon Footprint

City of Austin Municipal Footprint

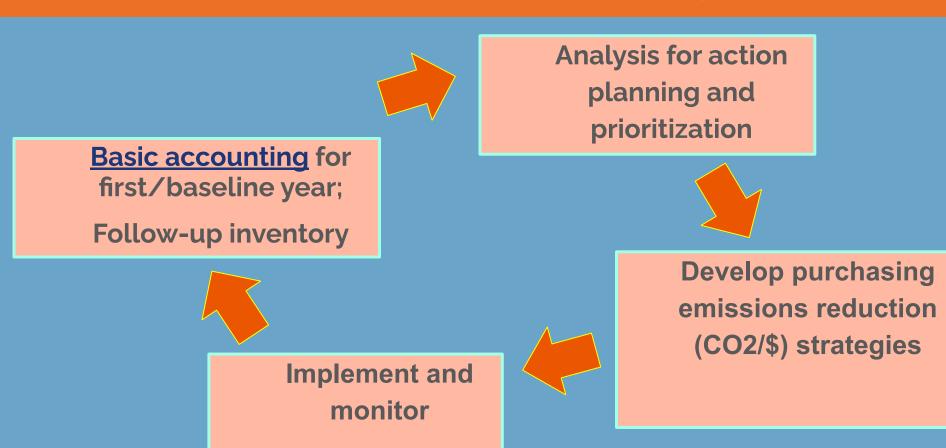


Methodology characteristics

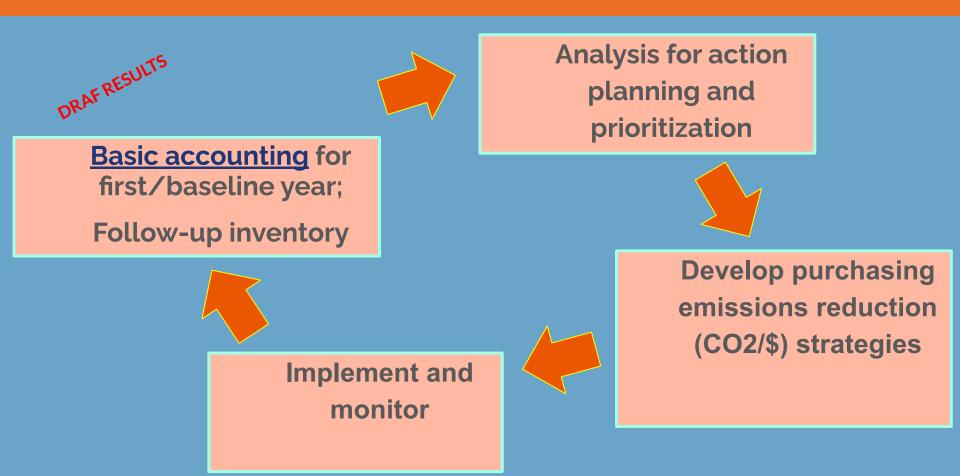
- Developed from <u>universally</u> <u>accepted</u> guidance
- Spend-based methodology uses basic industry-wide emissions factors to estimate emissions, and does does not consider Austin's spending commitments or use EPDs or vendor provided emissions factors



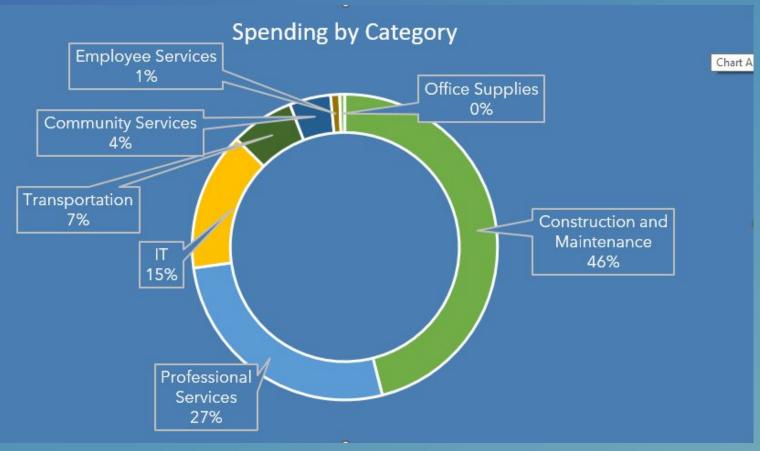
Emissions and Impacts from Purchasing, inventory process:



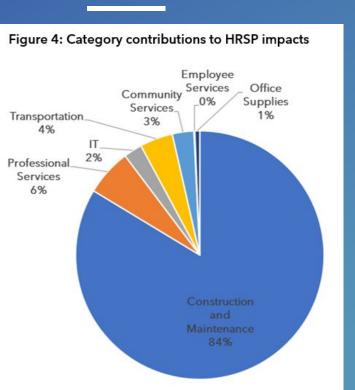
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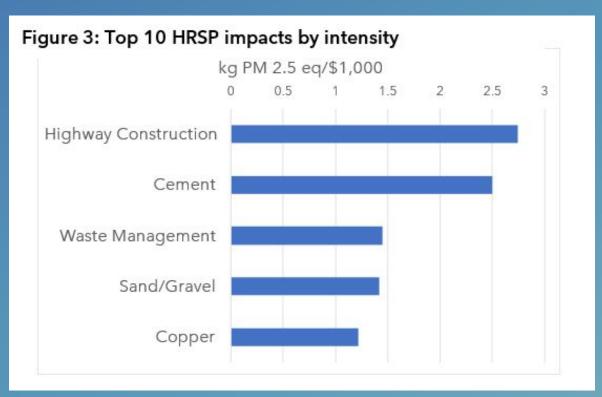


Spending by Category- Draft



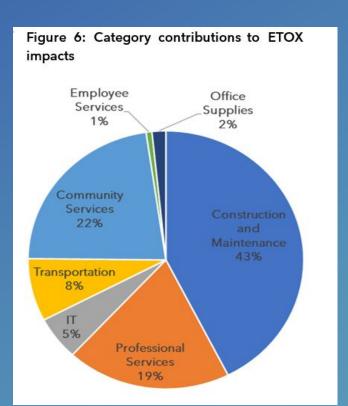
Human Respiratory Impacts - Draft

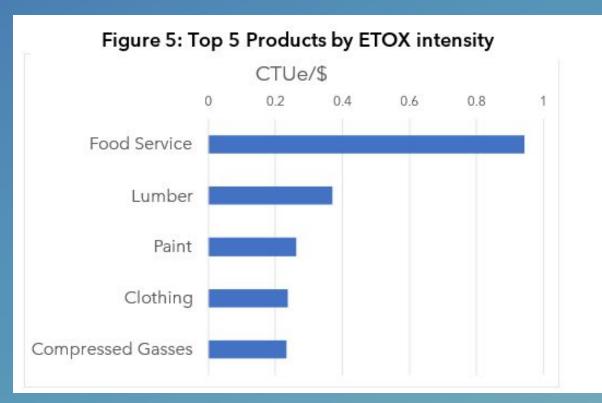




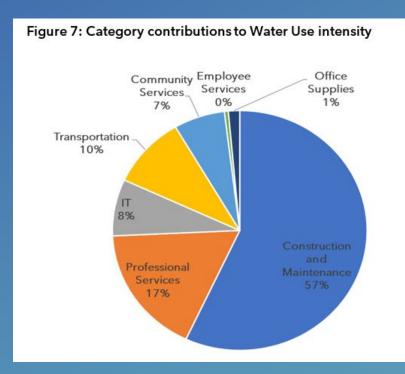
Overall HRSP impacts from 2022 City of Austin purchasing was 223,000 kg PM2.5e.

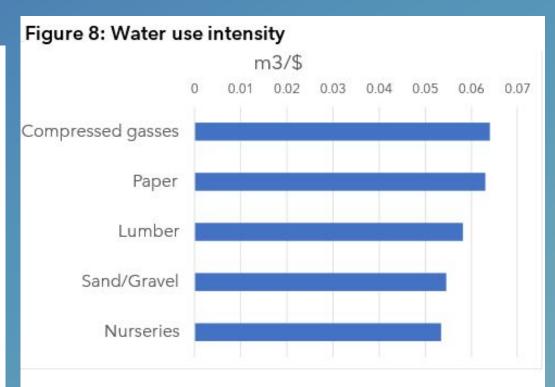
ETOX intensity - Draft



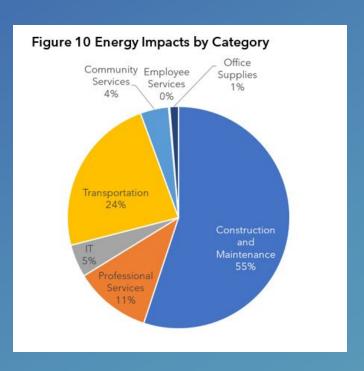


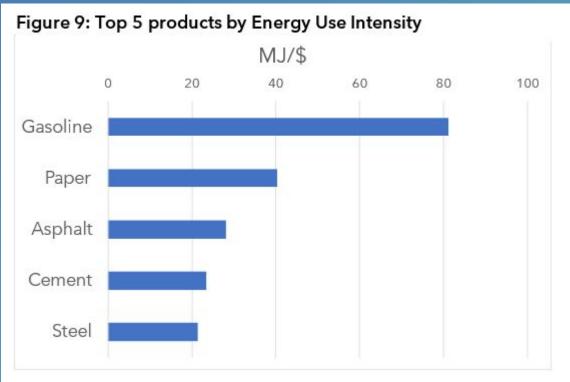
Water use Intensity - Draft





Energy Impacts- Draft



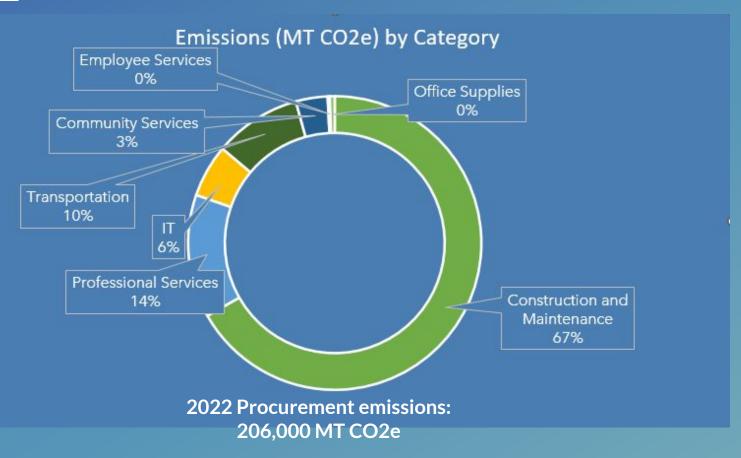


Emissions

by Spending category –
Draft

		Total Spend S	GHG Emissions MT CO2e
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
	Software	\$ 68,649,365	4,494
П	Data Services	\$ 18,075,321	1,718
	Hardware and Equipment	\$ 29,123,027	4,278
	IT Services	\$ 20,213,351	1,845
	Equipment	\$ 1,467,690	166
Transportation	Fuel	\$ 9,184,810	5,752
Transportation	Maintenance	\$ 1,742,505	568
	New vehicles	\$ 49,597,097	15,027
Community Services	Supplies	\$ 19,769,861	5,068
	Support and Assistance Programmin	\$ 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	\$ 1,967,341	707
	Printing & Postage	\$ 1,209,018	954
	Supplies	\$ 1,814,920	522

Emissions by Spending Category

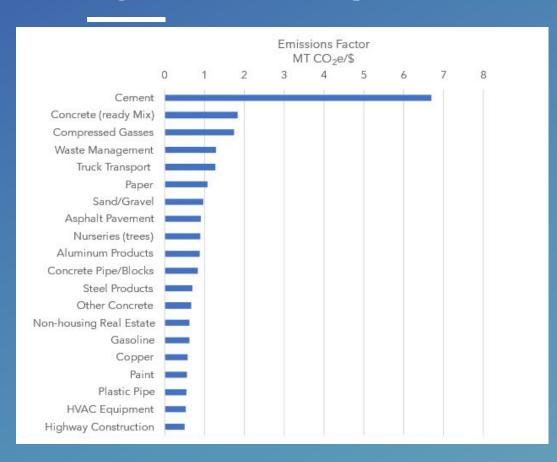


Impact intensities

by Spend Category
- Draft

		CO2e/1000\$
	Capital Construction	0.399
Construction and maintenance	Green Space Maintenance	0.375
	Major Equipment	0.280
Construction and maintenance	Operations & Maintenance	0.291
	Small hardware and accessories	0.364
	Waste and Recycling	0.970
	Consultants	0.091
	Education & Training	0.108
Professional Services	Engineering	0.132
	Insurance	0.045
	Other	0.102
	Software	0.065
IT	Data Services	0.095
"	Hardware and Equipment	0.147
	IT Services	0.091
	Equipment	0.113
Transportation	Fuel	0.626
Transportation	Maintenance	0.326
	New vehicles	0.303
1-1-2-1-2-2-3	Supplies	0.256
Community Services	Support and Assistance Programmin	0.229
81. F. C. C. See Co. C.	Utility Services	0.251
	Administration	0.082
Employee Services	Insurance	0.040
The Box	Other benefits	0.224
	Furniture	0.360
Office Supplies	Printing & Postage	0.789
	Supplies	0.288

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/\$

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:

eCo2

- 1. "Construction"
- 2. "Tech" Utilities
- 3. "Concrete"
- 4. "Concrete"
- 5. "Construction"
- 6. "Construction"
- 7. "Petroleum"

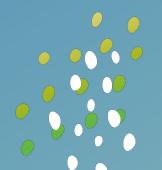
Next Steps:

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



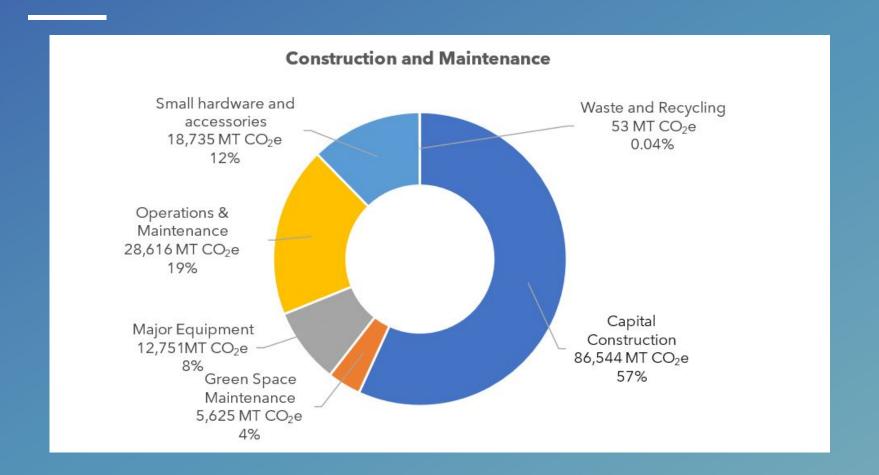


Addendum slides

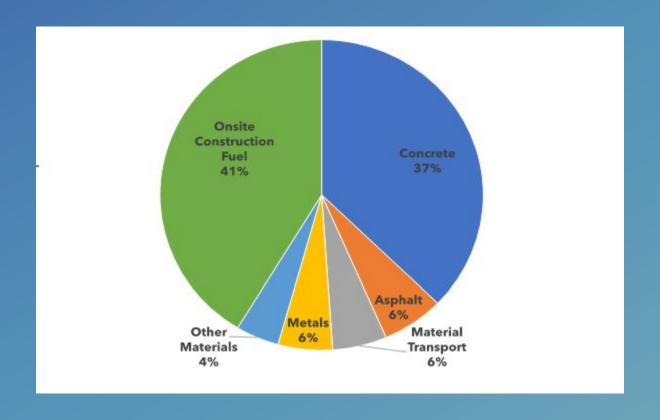




Emissions breakdown for Construction and Maintenance



Rough emissions breakdown for Road Construction



Concrete emissions breakdown

