



BEND CLIMATE ACTION PLANNING

Energy Trust of Oregon
Bend Trade Ally Forum
October 19, 2018



- 2000 – City of Bend sustainability council goal and internal work group established
- 2003 – Bend hosts first statewide forum on Sustainability
- 2007 – City Council Resolution - Mayor's Climate Protection Agreement
- 2009 – City of Bend receives Energy Efficiency and Conservation Block Grant
- 2013 – City of Bend joins ETO's Strategic Energy Management Program
- 2016 – City Council Resolution calls for Climate Action and sets goals
- 2018 – City of Bend hires Sustainability Coordinator and appoints
Climate Action Steering Committee in April



CITY OPERATIONS

Strategic Energy Management Plan to:

- Become carbon neutral by 2030
- Reduce fossil fuel use for City facilities and operations by
 - 40% by 2030
 - 70% by 2050

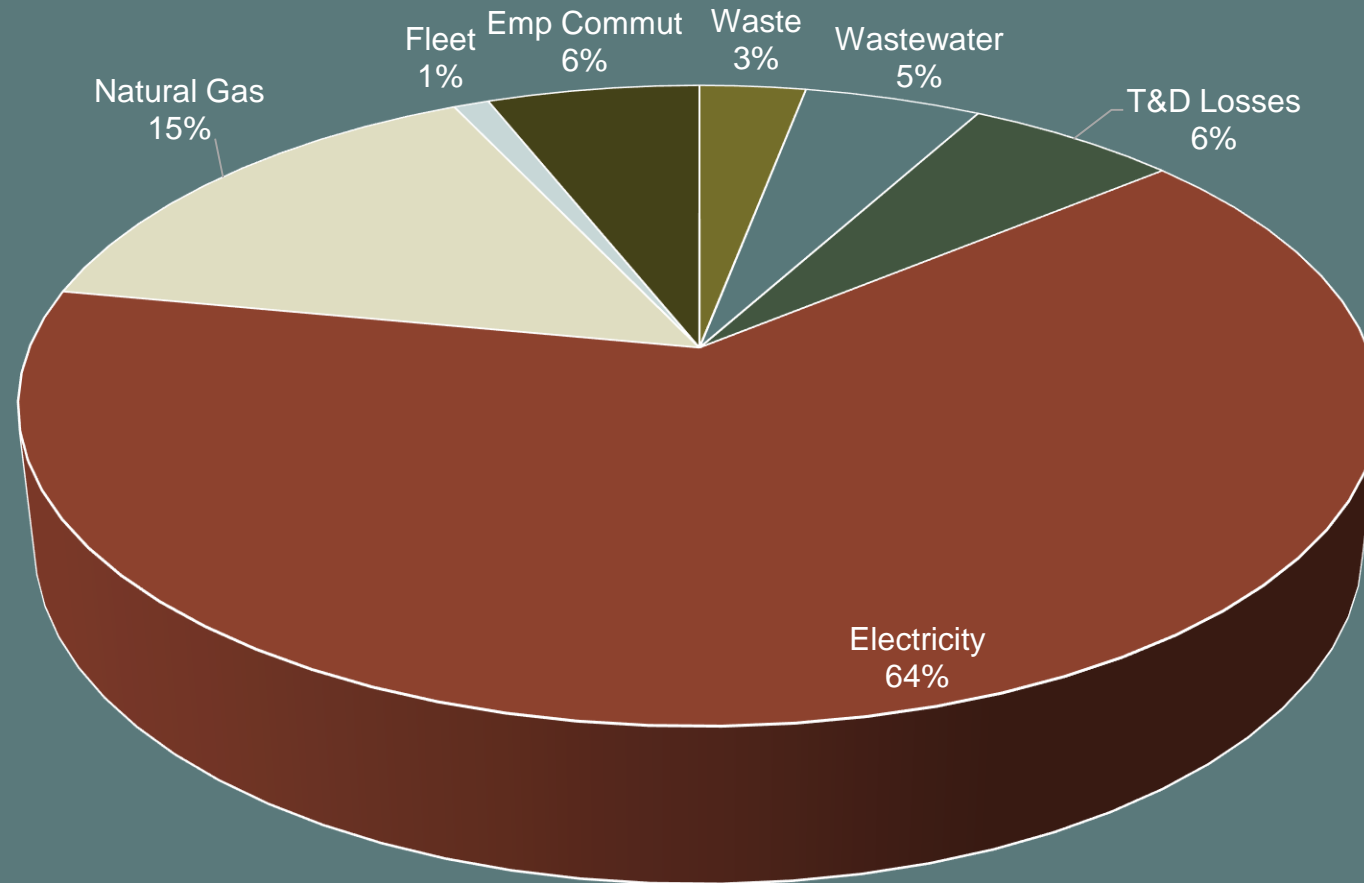
COMMUNITY WIDE

Community Climate Action Plan to:

- Reduce fossil fuel use community wide by
 - 40% by 2030
 - 70% by 2050

CITY OPERATIONS CLIMATE ACTION

CITY OPERATIONS GHG EMISSIONS INVENTORY

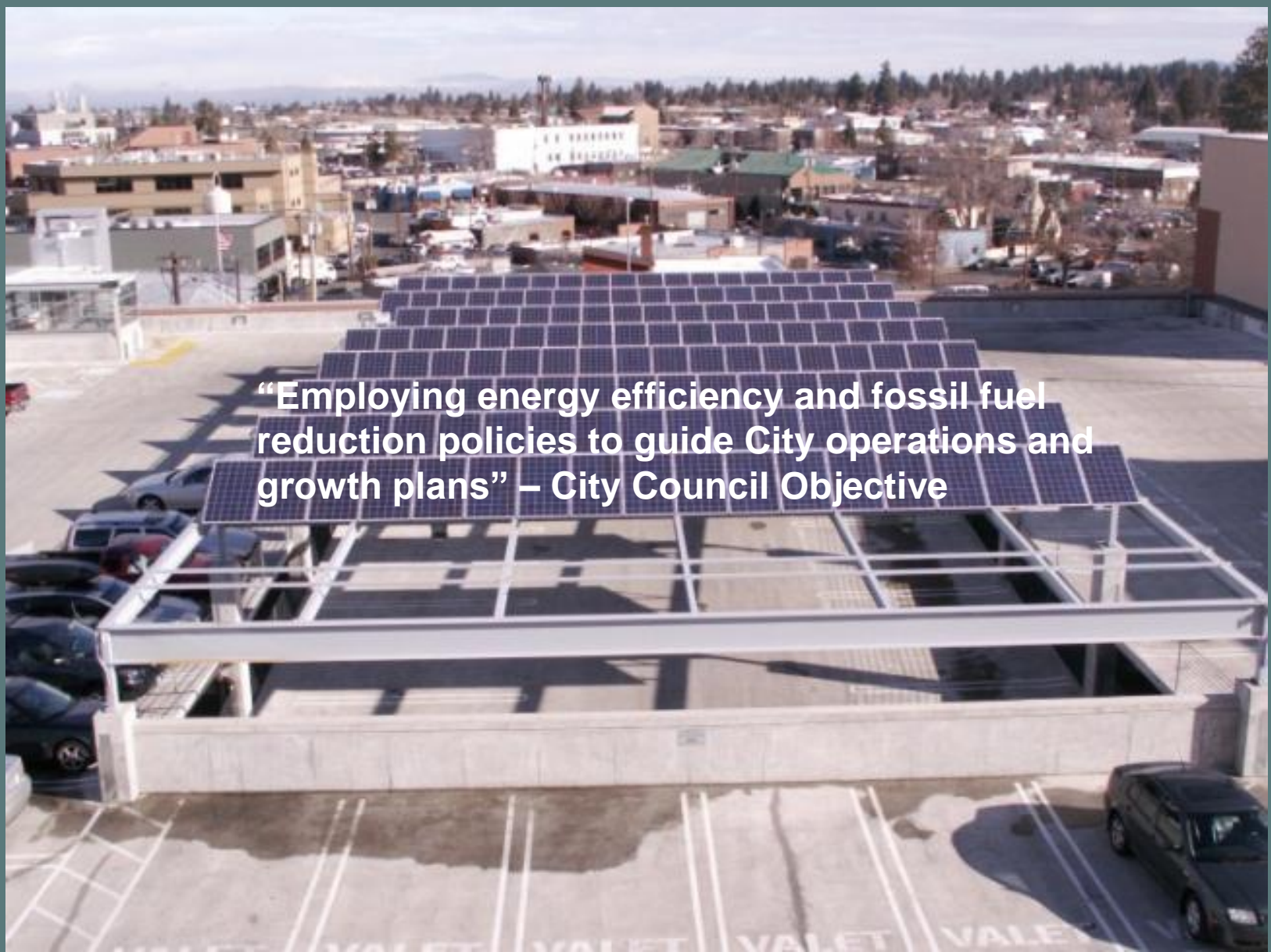


Fiscal Year: 2014

Total Emissions: 21,155 equivalent metric tons of carbon

Pop: 77,000

CITY OPERATIONS STRATEGIC ENERGY MANAGEMENT



“Employing energy efficiency and fossil fuel reduction policies to guide City operations and growth plans” – City Council Objective



PATH TO CARBON NEUTRALITY FOR CITY OPERATIONS



- Interior, exterior, lighting upgrades
- Controls Upgrades
- Plumbing Upgrades
- Mechanical Upgrades

Energy Efficiency



- Solar
- Biogas
- Small Inline Hydro

Renewable Energy



- Street Lighting
- Water Reclamation Facility Optimization
- Water System Optimization

Energy Infrastructure



- Fleet Vehicle Alt Fuels
- Offsite Renewable Energy Purchases

Energy Supply



- Asset Management
- Capital Planning

Intelligent Solutions



- Utility Incentives
- Grants
- Bonds
- Public Private Partnerships

Project Financing



Phase 2 considerations

COMMUNITY CLIMATE ACTION



FUNDING PROPOSAL for Community Climate Action Plan	2017/2018	2018/2019
City of Bend (<i>Redirected ARRA Funding</i>)	\$50,000	\$50,000
Partners for Places	\$50,000	\$50,000
Oregon Community Foundation	\$50,000	\$50,000
Bend Climate Action Project	\$25,000	\$25,000
TOTAL	\$175,000	\$175,000

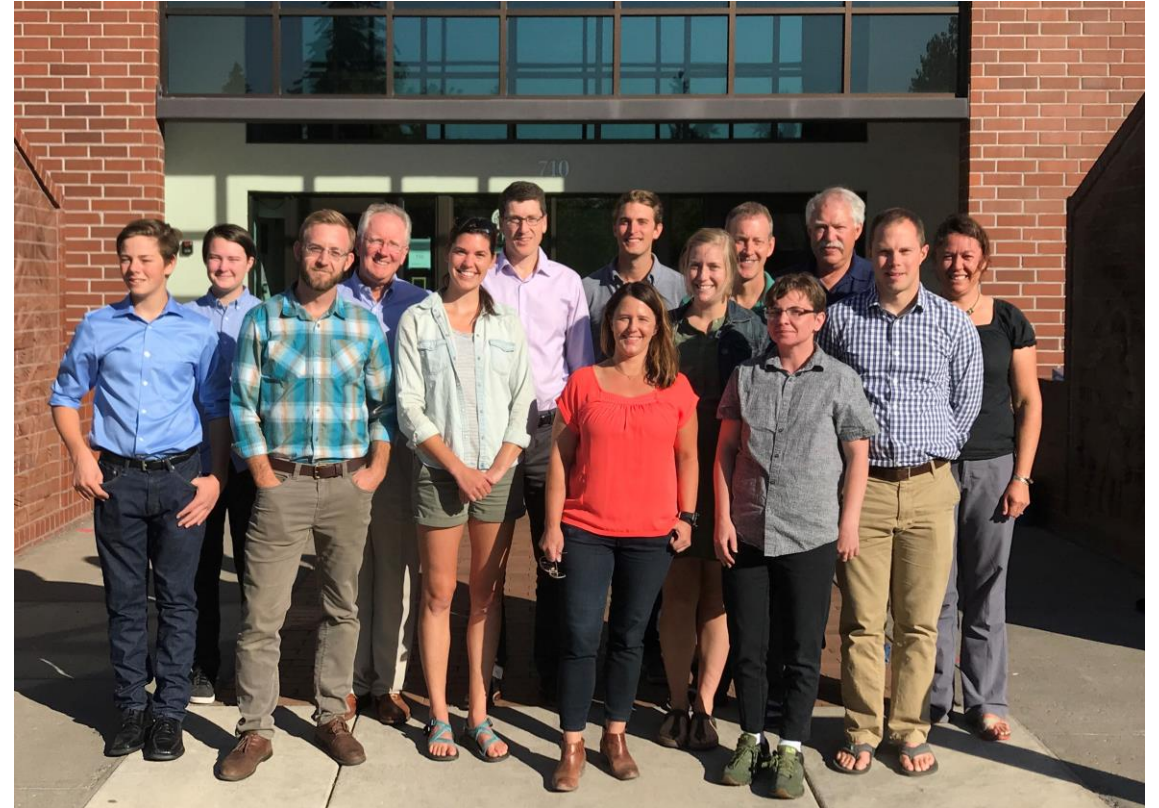
Pending



CLIMATE ACTION STEERING COMMITTEE



- **Mike O'Neil**, Chair, Business Seat, Solaire Homes
- **Jamie Klopp**, Business Seat, BEDAB, Epic Aircraft
- **Serena Dietrich**, Business Seat, Deschutes Brewery
- **Lindsey Hardy**, Chair, Environmental Seat, The Environmental Center
- **Russ Donnelly**, Environmental Seat, Climate Ordinance Working Group
- **Ryan LaPoma**, Topic Expert, Earth Advantage
- **Al Spector**, Topic Expert, Cascade Natural Gas
- **Sasha Sulia**, Government/Institution, BPRD
- **Casey Bergh**, Government/Institution, OSU Cascades
- **Andrew Skidmore**, Youth Seat, Cascade Middle School
- **Rebecca McCann**, Youth Seat, Bend High School
- **Marina Heppenstall**, At Large, Deschutes Land Trust
- **Eric Duea**, At Large, Gunter Group

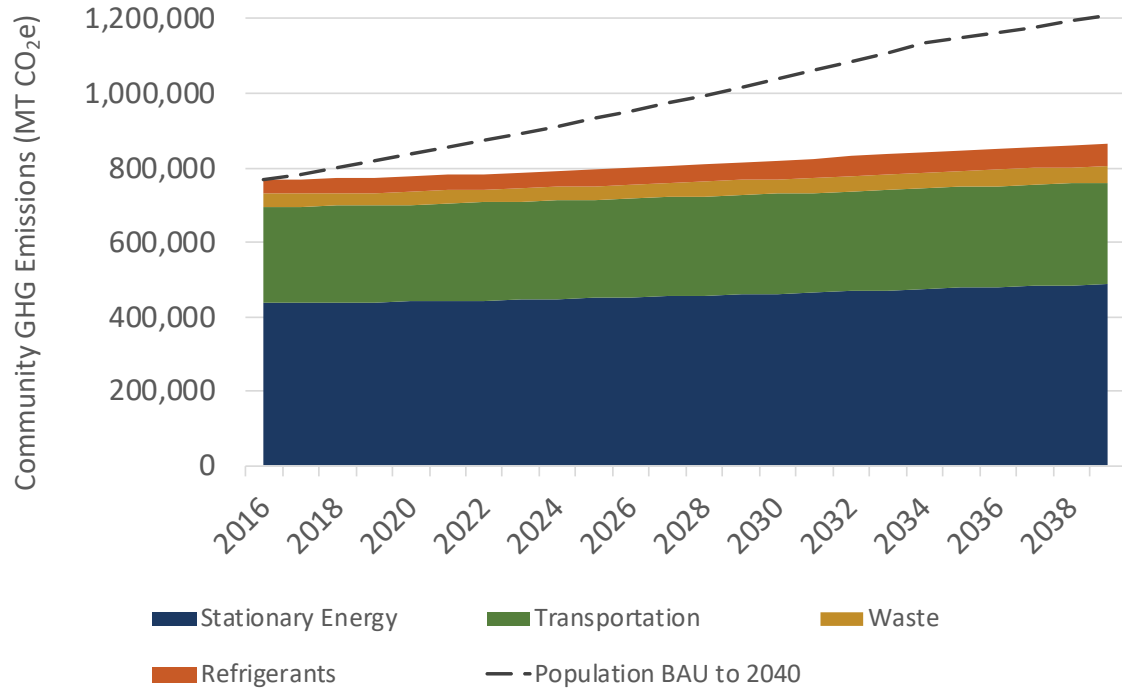




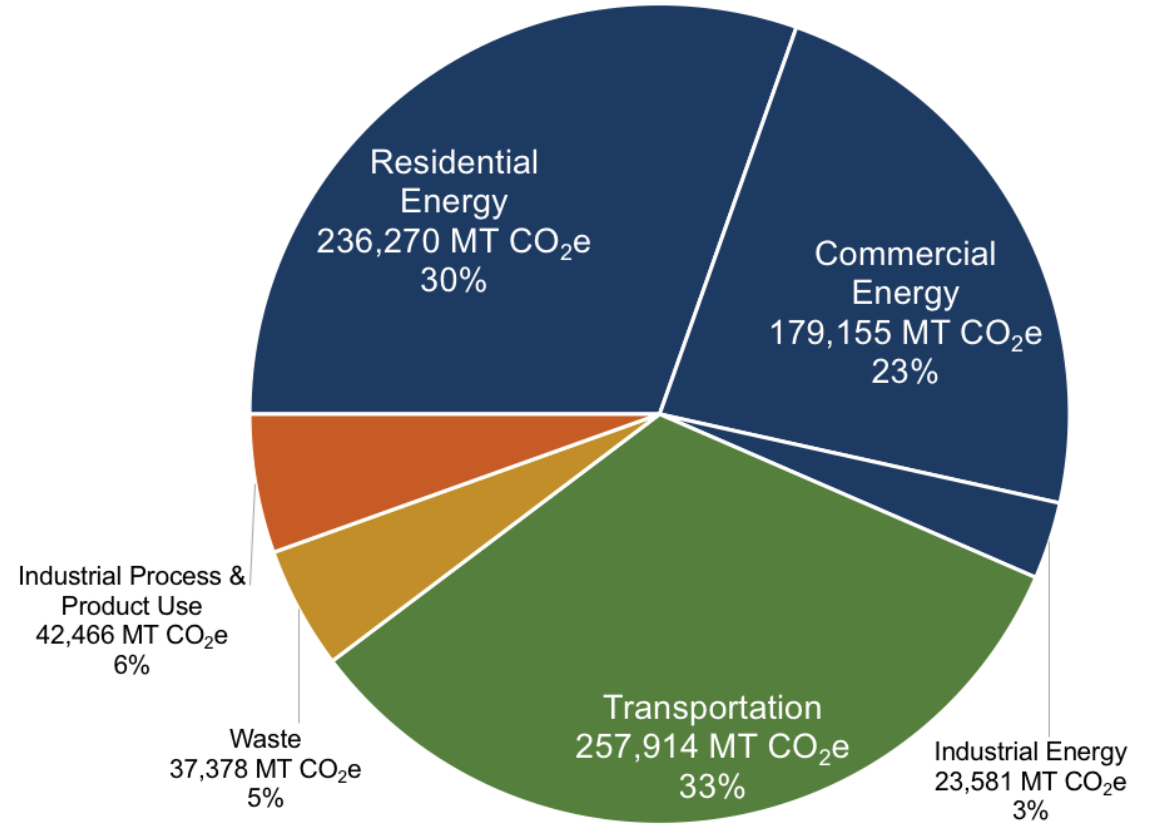
BEND COMMUNITY GREENHOUSE GAS INVENTORY

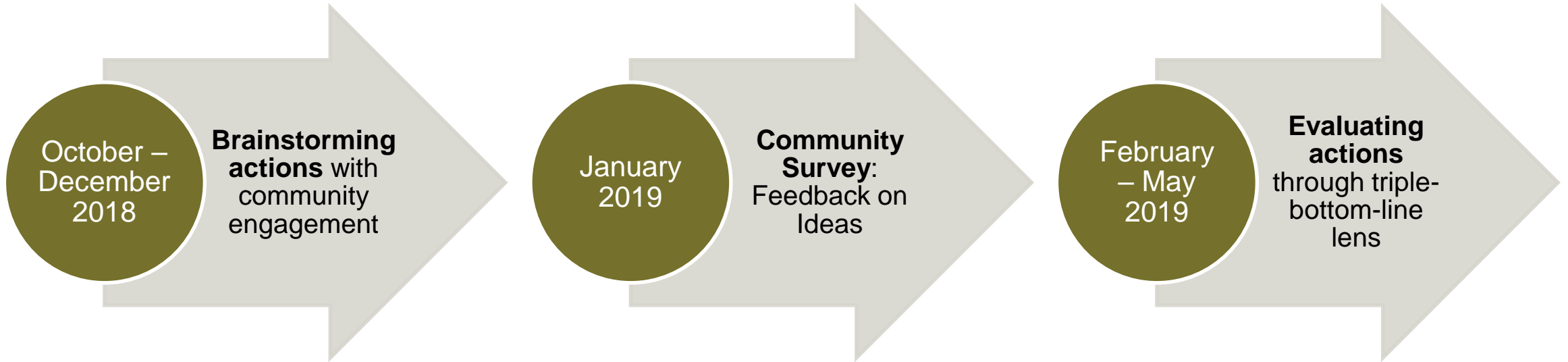


Business As Usual Forecast



Bend Sector-Based Greenhouse Gas Emissions
 776,765 MT CO₂e
 9.3 MT CO₂e per capita









Sector Working Groups

- Led by Climate Action Steering Committee members
- Direct input on barriers, objectives, and equity considerations
- *Brainstorm and create* list of potential climate actions
- Direct invites to major stakeholders to be at the table
 - Examples: Pacific Power, Cascade Natural Gas, Central Electric Coop in energy supply group, builders and realtors in energy efficiency in buildings groups

Working Group Dates

Energy Supply

Meeting #1: Tuesday, October 23, 3-5 PM

Meeting #2: Tuesday, November 6, 3-5 PM

Energy Efficiency in Buildings:

Meeting #1: Thursday, October 25, 3-5 PM

Meeting #2: Thursday, November 8, 3-5 PM

Transportation:

Meeting #1: Wednesday, October 10, 3-5 PM

Meeting #2: Thursday, November 15, 4-6 PM

Waste & Materials Management:

Meeting #1: Tuesday, October 9, 3-5 PM

Meeting #2: Tuesday, November 13, 4-6 PM



Community Online Survey

- January 2019, open for the whole month
- Broader community input
- *Respond* to proposed ideas from working groups
- Share how proposed ideas might impact you

QUESTIONS?

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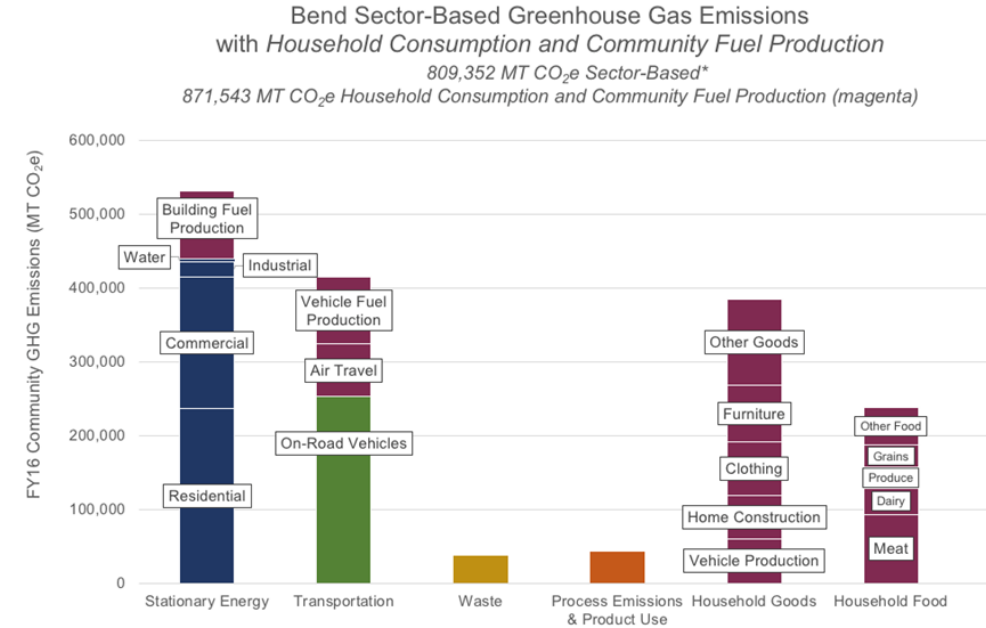
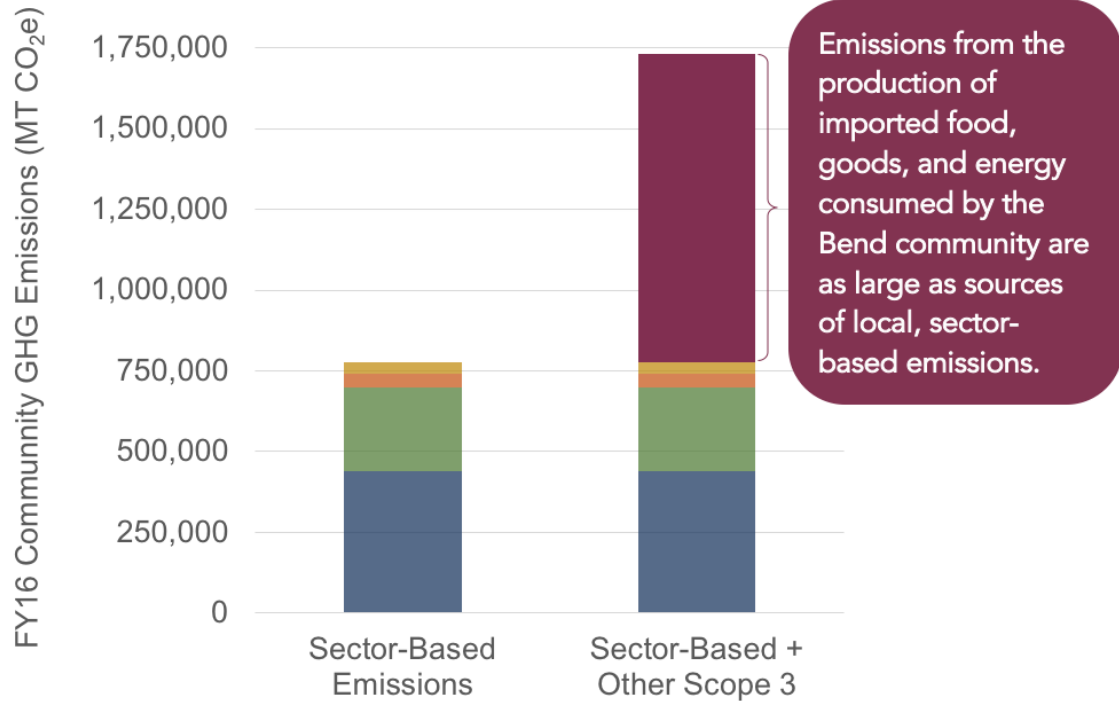


Figure 4: Detailed summary of sector-based emissions and comparison to emissions from household consumption and fuel production.

Note* Figure 3 presents location-based emissions for electricity. Market-based emissions details are included in Figure 5 and Figure 7

Note2: Other Goods include electronics, toys, personal care products, cleaning products, printed reading materials, paper, office supplies, and medical supplies.