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

- Natural Gas: 15%
- Electricity: 64%
- Wastewater: 5%
- Wastewater: 3%
- Fleet: 1%
- Emp Commut: 6%
- T&D Losses: 6%

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

**Energy Efficiency**
- Interior, exterior, lighting upgrades
- Controls Upgrades
- Plumbing Upgrades
- Mechanical Upgrades

**Renewable Energy**
- Solar
- Biogas
- Small Inline Hydro

**Energy Infrastructure**
- Street Lighting
- Water Reclamation Facility Optimization
- Water System Optimization

**Energy Supply**
- Fleet Vehicle Alt Fuels
- Offsite ReneEnergy Purchaseswable

**Intelligent Solutions**
- Asset Management
- Capital Planning

**Project Financing**
- Utility Incentives
- Grants
- Bonds
- Public Private Partnerships

Phase 2 considerations
## Community Climate Action Plan Fundraising

### Funding Proposal for Community Climate Action Plan

<table>
<thead>
<tr>
<th>Funder</th>
<th>2017/2018</th>
<th>2018/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>City of Bend (Redirected ARRA Funding)</td>
<td>$50,000</td>
<td>$50,000</td>
</tr>
<tr>
<td>Partners for Places</td>
<td>$50,000</td>
<td>$50,000</td>
</tr>
<tr>
<td>Oregon Community Foundation</td>
<td>$50,000</td>
<td>$50,000</td>
</tr>
<tr>
<td>Bend Climate Action Project</td>
<td>$25,000</td>
<td>$25,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>$175,000</strong></td>
<td><strong>$175,000</strong></td>
</tr>
</tbody>
</table>

Pending
First step: best practices research

Resources:
- Look at Other Cities – Aspen, Ashland, Fort Collins, Milwaukie, Flagstaff
- Urban Sustainability Directors Network
- Carbon Neutral Cities Alliance

<table>
<thead>
<tr>
<th>City</th>
<th>Population</th>
<th>Plan (Year of Implementation)</th>
<th>GHG Reduction Target 1</th>
<th>GHG Reduction Target 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ashland (a)</td>
<td>20,713</td>
<td>Climate and Energy Action Plan (2017)</td>
<td>RFP Released 12/15, targets TBD</td>
<td>RFP Released 12/15, targets TBD</td>
</tr>
<tr>
<td>Beaverton (b)</td>
<td>92,697</td>
<td>Sustainability Action Plan (2014)</td>
<td>N/A</td>
<td>80% by 2050</td>
</tr>
<tr>
<td>Corvallis (a)</td>
<td>55,008</td>
<td>Climate Action Plan (2017)</td>
<td>57% by 2030</td>
<td>83% by 2050</td>
</tr>
<tr>
<td>Eugene (b)</td>
<td>160,000</td>
<td>Climate Recovery Plan (2014)</td>
<td>50% by 2030</td>
<td>80% by 2050</td>
</tr>
<tr>
<td>Gresham (b)</td>
<td>109,397</td>
<td>Sustainability Initiative (2011)</td>
<td>100% renewable by 2030</td>
<td>80%/2050</td>
</tr>
<tr>
<td>McMinnville (b)</td>
<td>33,139</td>
<td>Sustainability Action Plan (2009)</td>
<td>10% by 2015</td>
<td>N/A</td>
</tr>
<tr>
<td>Milwaukie (b)</td>
<td>20,512</td>
<td>Sustainability Plan (2009)</td>
<td>10% by 2015</td>
<td>100% renewable by 2029</td>
</tr>
<tr>
<td>Portland (b)</td>
<td>610,000</td>
<td>Climate Action Plan (Rev. 2015)</td>
<td>40% by 2030</td>
<td>80% by 2050</td>
</tr>
</tbody>
</table>

(a) Cities with Pending Climate Action Plans or Environmental Action Plans
(b) Cities with adopted Climate Action Plans
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
809,352 MT CO₂e
9.7 MT CO₂e per capita

- Residential Energy: 236,270 MT CO₂e (29%)
- Commercial Energy: 179,155 MT CO₂e (22%)
- Industrial Process & Product Use: 42,466 MT CO₂e (5%)
- Waste: 37,378 MT CO₂e (5%)
- Transportation: 290,501 MT CO₂e (36%)

Stationary Energy
Transportation
Waste
Refrigerants
Population BAU to 2040
Emissions from the production of imported food, goods, and energy consumed by the Bend community are as large as sources of local, sector-based emissions.

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 3 and Figure 7.

Clarity: Other Goods include electronics, toys, personal care products, cleaning products, printed/reading materials, paper, office supplies, and medical supplies.
Brainstorming actions with community engagement

Community Survey: Feedback on Ideas

Evaluating actions through triple-bottom-line lens
COMMUNITY CLIMATE ACTION PLAN

TIMELINE AND PROCESS

May 2019

Community Survey: Feedback on final actions

June – August 2019

Implementation Planning: Engage the relevant stakeholders

September 2019

Draft plan to Council
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

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