Portland’s Building Sector Policies and Programs

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Andria Jacob
Senior Manager, Energy Programs and Policy

Bureau of Planning and Sustainability
Presentation Agenda

- Review of Portland’s climate and energy goals.
- Update on carbon emissions inventory.
- Review of local policy landscape, strengths and gaps.
- Sneak preview of what’s coming next.
North Star Climate & Energy Goals

- 100 Percent Renewable Energy (2017)
  - 100% renewable electricity by 2035;
  - 100% renewable heating and transportation sectors by 2050.
  - Center frontline communities and ensure a just transition.

- C40 Net Zero Carbon Buildings Declaration
  - NZC new buildings and municipal assets by 2030;
  - NZC existing buildings by 2050.
Where do Portland's carbon emissions come from?

2017 Multnomah County Carbon Emissions by Sector

- Transportation Sector: 42%
- Commercial Sector: 22%
- Residential Sector: 14%
- Industrial Sector: 2%
- Landfilled Solid Waste: 1.4%
- Fugitive Emissions: 0.2%
- Wastewater Treatment: 2.4%
CHANGES IN MULTNOMAH COUNTY CARBON EMISSIONS PER PERSON

% CHANGE FROM 1990 LEVELS
Transportation emissions have gone up, while all other sectors have gone down.
Priority #1: Energy Efficiency

- Existing buildings
  - Commercial energy benchmarking (2015)
  - Home Energy Score (2016)
  - City buildings

- New buildings
  - Focus on building codes and Governor’s EO 17-20.

- Centering frontline communities
Priority #2: Renewables

- Historic focus on DG (rooftop solar through Solarize).
- Shifted focus to community solar since 2011.
- Renewable Resilient Power for Portland (R2P2).
- Electricity procurement for City electric operations
  - Going beyond RECs.
Priority #3: Electrify the Rest

- Zero Cities Roadmap - equity centered
  - Living Cully Community Energy Plan prioritizes ductless heat pump pilots.
  - Health and safety issues with natural gas, aside from the carbon emissions.
- Broadway Corridor - environmental justice and labor coalition asking for net zero carbon development.
Next Steps

- Carbon emissions standards for existing buildings.
- Embodied carbon, sustainable consumption and production strategy.
- Price on carbon.
- Exploring regulatory tools (land-use is key to mitigation.)
- Resilience (solar + storage microgrids).
Follow-up:
andria.jacob@portlandoregon.gov
503.823.7616
www.portlandoregon.gov/bps