Cities Climate Action Summit:
We can do this

King County-Cities Climate Collaboration
Thanks to the Green Sanctuary Team of Northlake UUC for hosting
## Acknowledgments

PCA groups in Bellevue, Bothell, Kenmore, Kirkland, Mercer Island, Redmond, Sammamish, Seattle, Woodinville, & more.

<table>
<thead>
<tr>
<th>350 Eastside</th>
<th>East Shore Unitarian Church</th>
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<tbody>
<tr>
<td>Sierra Club</td>
<td>Faith Action Climate Team</td>
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<tr>
<td>Audubon Eastside</td>
<td>Environment Washington</td>
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<td>Climate Solutions</td>
<td>Climate Reality Project (Eastside Committee)</td>
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<td>Coalition of Eastside Neighborhoods for Sensible Energy</td>
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<tr>
<td>Citizens Climate Lobby --Bellevue and Kirkland chapters</td>
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<tr>
<td>Indivisible Eastside, Indivisible Kirkland, Indivisible WA 8</td>
<td></td>
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<tr>
<td>And other area environmental &amp; climate groups</td>
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</table>
Thank you for attending!

- We appreciate everyone coming out early on a Saturday morning.
- Everyone is critical to our discussion: residents, elected officials and government staff.

Thanks!
Outline

• Why it matters; why cities matter
• K4C, our local climate agreement
• Climate goals: where we stand
• Importance of climate action plans
• Examples of cities leading the way
• What you can do
Where We Are...

“Yes the prognosis is dire, but treatment is available. There is still time. We can beat this together.”

UW Climate Research Scientist
Oct 12, 2018 Op-Ed

“IF THE EARTH WARMS ANY MORE, WE’RE ALL IN PERIL”
IPCC, 2018
Action in **cities** is important

- Cities produce 70% of greenhouse gases (GHG)
- As residents, we have leverage with our local governments
- Individual action is good, but *collective* action is crucial
Our local climate action agreement
King County-Cities Climate Collaboration (K4C)
What is K4C?

• A letter of commitment to collaborate to reduce GHG emissions by 16 cities, Port of Seattle and the County

• Originally signed in 2014
K4C partners together represent 1.6 million people and 80% of King County's population.
K4C GHG reduction goals

- 2007: Baseline
- 2020: 25% reduction
- 2030: 50% reduction
- 2050: 80% reduction
## K4C addresses these areas

<table>
<thead>
<tr>
<th>Shared Goals</th>
<th>Consumption &amp; Materials Management</th>
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<tbody>
<tr>
<td>Climate Policy</td>
<td>Forests and Farming</td>
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<tr>
<td>Transportation &amp; Land Use</td>
<td>Government Operations</td>
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<tr>
<td>Energy Supply</td>
<td>Collaboration</td>
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<tr>
<td>Green Building &amp; Energy Efficiency</td>
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</table>
Where our K4C cities stand now:

1. Acknowledged the problem
2. Set goals
3. Measured GHG emissions

These steps are significant. K4C has helped us get this far.
Not on track for 2020 goal

GHG Emissions

- 2007
- 2020
- 2030
- 2050
Still, more work is needed!

1. Acknowledged the problem
2. Set goals
3. Measured GHG emissions
4. Plan how goals will be met
5. Implement the plan
6. Regular review (return to 3)
Robust plans could achieve 2030 & 2050 goals

GHG Emissions

- 2007
- 2020
- 2030
- 2050
Why don’t K4C cities have strong plans?

- Creating a GHG reduction plan is new, complicated, and unfamiliar
- Council members are constantly asked to act on a number of priorities
- Climate action often isn’t first priority
- Residents aren’t voicing their concerns
What’s needed in a plan

• Holistic/comprehensive approach
• Specific & measurable GHG reduction policy steps
• Policies implementation schedule
• Annual GHG emissions measuring and policies reevaluation/tweaking
What seem like daunting challenges can be overcome with:

- Optimism
- Careful study
- Collective political leverage
- Expert assistance
Climate of Hope

“This is a conversation that must be led by everyday citizens and local leaders... It’s up to us to change the tenor and tone of the climate discussion—away from partisanship and toward problem solving.”
Four major benefits

• Improve health
• Save money
• Attract businesses and people
• Preserve our cherished environment
Sources of information we have studied
the Carbon-Free City Handbook

Rocky Mountain Institute, Sept 2018
Website + handbook – 22 actions for cities.
Emissions and Recommendations

For an average city

Buildings
1. City Building Retrofits
2. Net-Zero Codes
3. Progressive Codes
4. Smart LED Lighting
5. Benchmarking and Transparency

Electricity
13. LED Smart Streetlights
14. Electric Districts
15. Municipal Solar Installations
16. Municipal Renewable Supply

Waste
20. Organic Waste Diversion

Industry
17. Clean Industrial Heat
18. Efficient Motors
19. Operator Training

Transportation
6. Fleet Electrification
7. Combustion Vehicle Reduction
8. Freight Reduction
9. EV Charging
10. Car-Free Downtown
11. Mobility Alternatives
12. Public Transit

Agriculture, Forestry, Other Land Use
21. Urban Forestry

Biological Resources
22. Plant-Based Diets

Note that a wide variety is possible, such as this chart of Lima's emissions, with a much larger proportion in Waste and Transport.
Bellevue’s sources of GHG

Bellevue emissions by end use, 2016

- Cars & Trucks: 42.5%
- Residential: 19%
- Commercial: 25%
- Other: 12.5%
- Industrial: 1%
Carbon-Free City Handbook

For many cities, buildings are the largest cause of carbon emissions. The good news is that transitioning buildings toward net-zero energy makes those buildings healthier and more comfortable. Smart approaches to retrofitting and new construction can create an economic boon for the city.

Buildings
Eliminate carbon emissions associated with buildings

1  City Building Retrofits ...................... 14
2  Net-Zero Codes .............................. 16
3  Progressive Codes ......................... 18
4  Smart LED Lighting ....................... 20
5  Benchmarking and Transparency .... 22
   Recommended Resources .............. 24
Movement of people, services, and goods is essential to a thriving city. Current transportation options often force a one-size-fits-all solution for that mobility: cars and trucks, and the streets designed to serve them. Carbon-free cities can provide more efficient and economic options that are tailored to different transportation needs—with no emissions—and that create vibrant urban spaces.
4 Cities with notable climate action plans

• Portland, OR
• Fort Collins, CO
• Cambridge, MA
• Eugene, OR
Common successful history trends

• Early problem recognition
• Years of goals proclamation
• Successive modest plans
• At least one major “Ah Ha” moment
• Engaging a team expert advisors
Bellevue emissions by end use, 2016

Figure 8. Total Multnomah County carbon emissions by sector (Sector-based inventory, 2013). Source: Portland Bureau of Planning and Sustainability
Portland + Multnomah County Trends

Population and jobs up, carbon emissions down

From 2015 Climate Action Plan, with updates from City of Portland
Portland timeline

1993 -- CO2 Reduction Strategy
2001 -- Global warming action plan
2005 -- Portland signs US Mayors Climate Protection Agreement

2008 -- Regional CAP Resolution
2009 -- First Climate Action Plan
2015 -- Expanded Climate Action Plan
2017 -- Progress Report
Portland + Multnomah County Trends
Population and jobs up, carbon emissions down

From 2015 Climate Action Plan, with updates from City of Portland
Portland 2050 Vision

2050 VISION FOR PORTLAND AND MULTNOMAH COUNTY

The intertwined challenges of climate change, social inequity, economic volatility, degraded natural systems and the rising cost of living demand an integrated response that goes far beyond cutting carbon.

An 80 percent reduction of local carbon emissions by 2050 requires reimagining our community.

It means transitioning away from fossil fuels while strengthening the local economy and shifting fundamental patterns of urban development, transportation, buildings and consumption.

PROSPEROUS
- Portland and Multnomah County are the heart of a vibrant region with a thriving economy.
- Green living wage jobs are a key component throughout the regional economy.
- Households and businesses save money and resources by favoring energy-saving appliances and durable, repairable goods, and routinely share and rent vehicles and other goods.

CONNECTED
- Access to active transportation options has never been better, including frequent service transit to the city’s many employment centers.
- Pedestrians, bicyclists and transit are prominent throughout Portland’s vibrant community centers, bustling corridors and diverse neighborhoods.
- Vehicles are highly efficient and run on low-carbon electricity and renewable fuels.

HEALTHY AND RESILIENT
- Homes and business buildings are affordable, healthy, comfortable, durable and highly efficient.
- The urban forest canopy, natural areas, biodiversity and habitat corridors and green roofs can be found throughout the community.
- Backyard gardens, farmers markets and other community-based food programs are plentiful, productive and thriving.
- The region’s buildings, infrastructure, and natural and human systems are prepared to recover quickly from the impacts of a changed climate such as flooding, landslides and heat waves.

EQUITABLE
- Every resident, regardless of socio-economic status, has easy access to a walkable and bikeable neighborhood that includes retail, schools, parks, jobs and affordable housing.
- There are plentiful employment and small business opportunities led by and employing under-served and under-represented communities.
- Communities of color and low-income populations are involved in the development and implementation of climate-related programs, policies and actions.

From 2015 Climate Action Plan
Portland: 2015 Projection of Climate Actions

Emission Reductions Needed to Reach 2050 Goal

- Business as usual
- Lower carbon electricity 28%
- Buildings & energy 47%
- Land use & transportation 24%
- Waste disposal 1%

From 2015 Climate Action Plan
Portland: Tracking progress on 171 climate actions

From 2017 Climate Action Progress Report
Portland: Example Actions

CLIMATE ACTION PLAN PROGRESS REPORT

BENCHMARKING COMMERCIAL ENERGY PERFORMANCE
Portland implemented the first phase of a new policy that requires owners of commercial buildings 20,000 square feet and over to track and report their energy performance, which enables benchmarking against buildings nationally. This policy covers nearly 80 percent of the commercial square footage in Portland, affecting approximately 1,000 buildings. Commercial buildings are one the largest sources of carbon emissions in Portland, and this policy helps building operators track energy use and identify options to improve efficiency, lower energy costs, provide market recognition for the most efficient buildings, and give prospective buyers and tenants information to make informed decisions.

SCORING HOME ENERGY
Portland adopted a policy that requires the disclosure of home energy information on single-family homes at the time a home is listed for sale. Like a miles-per-gallon label on cars, a home energy score provides an easy-to-understand reference point to compare homes. The home energy score takes a market-based approach to cut household energy bills, create jobs and reduce carbon emissions. Requiring energy disclosure allows homebuyers to factor a home’s energy use into their purchasing decision. City staff will spend the next year on program development and rule making with the policy scheduled to take effect January 2018.

From 2017 Climate Action Progress Report
# Portland: Example Action Listings

## BUILDINGS AND ENERGY

### 2030 OBJECTIVE 1
Reduce the total energy use of all buildings built before 2010 by 25 percent.

Because buildings last for many decades, more than half of the buildings that will exist in 2050 already exist today. Efforts to reduce emissions from buildings need to address both existing structures and new construction.

From 2008 to 2013, total energy use in residential and commercial buildings decreased by four percent, due both to new programs like Clean Energy Works and the Kilowatt Crackdown and to the Energy Trust’s foundational programs.

This progress is encouraging, but existing programs and policies alone are unlikely to achieve the 25 percent reduction. The actions described below will support, enhance and accelerate building energy efficiency programs through partnerships and policy.

## ACTIONS TO BE COMPLETED BY 2020

<table>
<thead>
<tr>
<th>ACTION</th>
<th>Description</th>
<th>Impact</th>
<th>Lead agency</th>
<th>Timeframe</th>
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<tbody>
<tr>
<td>1A</td>
<td>Commercial Energy Performance Benchmarking — Implement energy performance tracking and annual reporting program for commercial buildings and explore options for multifamily buildings. Support improved access to utility data for building owners and managers seeking to improve energy and water performance.</td>
<td></td>
<td>City: BPS</td>
<td>Near-term</td>
</tr>
<tr>
<td>1B</td>
<td>Residential Energy Performance Ratings — Require energy performance ratings for all homes so that owners, tenants and prospective buyers can make informed decisions about energy costs and carbon emissions.</td>
<td></td>
<td>City: BPS</td>
<td>Mid-term</td>
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<tr>
<td>1C</td>
<td>Energy Partnerships — Establish long-term partnerships to coordinate equitable access to energy-efficiency resources, incentives, assistance, financing, outreach, education and other tools to residents and businesses. Support neighborhood efforts, including eco-districts, to improve energy performance of buildings.</td>
<td></td>
<td>City: BPS, County: OS</td>
<td>Existing and/or ongoing</td>
</tr>
<tr>
<td>1D</td>
<td>Operations and Maintenance — Work with partner organizations to promote building retro-commissioning and operation and maintenance practices that improve affordability, comfort, indoor air quality and energy efficiency in all commercial and multifamily buildings.</td>
<td></td>
<td>City: BPS</td>
<td>Mid-term</td>
</tr>
<tr>
<td>1E</td>
<td>Funding — Establish a clean energy fund to invest in energy efficiency and renewable energy projects. Develop and expand financing tools such as Clean Energy Works and commercial Property Assessed Clean Energy that are broadly accessible to households and building owners, including rental properties, throughout the community. Remove financial barriers to building retrofits, including limiting property tax increases due to completed energy projects.</td>
<td></td>
<td>City: BPS, PDC, County: OS</td>
<td>Near-term</td>
</tr>
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### Potential impact

- **CCC** Carbon emissions reduction
- **E** High potential to support jobs and prosperity
- **E** High potential to advance equity
- **E** High potential to improve local environmental quality
- **E** High potential to improve health
Portland: One Example Action Listing

Residential Retrofits — Partner with Clean Energy Works, Energy Trust of Oregon, utilities and contractors to retrofit 1,000 homes and improve the efficiency of 1,000 multifamily units per year. Establish minimum standards for rental housing.

From 2015 Climate Action Action Plan
Portland: Icons flag the impacts

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Magnitude of carbon reductions

- High potential to support jobs and prosperity
- High potential to advance equity
- High potential to improve local environmental quality
- High potential to improve health

From 2015 Climate Action Plan
Fort Collins, Colorado

- **Goal**: 20% reduction below 2005 levels by 2020.
- **As of 2017**, Fort Collins had reached a **17% reduction** with a growing population and economy.
Cambridge, Massachusetts

- Net Zero Action Plan (focused on buildings)
- Cambridge Community Electricity Program
- Sunny Cambridge
- Multi-Family Energy Efficiency Pilot
- Cambridge Sustainability Dashboard
- Local Carbon Fund
- Separated Bike Lanes
- Drive Green electric vehicle program

…and many more…
Climate action planning resources are available from many sources
C40 connects 96 large cities around the world in bold climate action.

CITIES AROUND THE WORLD ARE BUILDING A BRIGHTER FUTURE

The C40 Net Zero Carbon Buildings, Advancing Towards Zero Waste, and Green & Healthy Streets Declaration not only demonstrate cities' commitments to slash emissions by 2030, but also to build thriving, healthy, and equitable communities. More cities will be joining these committed leaders and working with C40 to turn their pledges into action in coming years.

Learn more about these ambitious commitments by clicking on the banners below.

- The Net Zero Carbon Buildings Declaration
- Advancing Towards Zero Waste Declaration
- Our Commitment to Green and Healthy Streets

Please contact gcas@c40.org for more information on how your city can join these climate action efforts!
ICLEI: Local Governments for Sustainability

Some of our local govts. are members
Architecture 2030

2030 CHALLENGES:

THE 2030 CHALLENGE
The 2030 Challenge offers a practical path to carbon-neutral buildings by 2030. Through its increasingly wide adoption, the 2030 Challenge is demonstrating how we can transform buildings from being the problem.

THE 2030 CHALLENGE FOR PLANNING
Amplifying the original Challenge, the 2030 Challenge for Planning addresses energy reduction at the broader scale of districts and cities, expanding the building-by-

THE 2030 CHALLENGE FOR PRODUCTS
The 2030 Challenge for Products addresses energy reductions at the smallest scale: building products. The embodied carbon from materials such as cement, and from
...and many more
An important change in this century “has been mayors’ recognition that promoting private investment requires protecting public health—and protecting public health requires fighting climate change.”
Like other exemplary cities we can realize these benefits:

- Improve health
- Save money
- Attract businesses and people
- Preserve our cherished environment
What you can do
What residents can do

• Join with other residents in a PCA group.

• Act as an ally to County or City Councils and staff, not an adversary.

• Respectfully and persistently tell councils, “We need a strong Climate Action Plan.”

• Take other civic action (emails, calls, Letters to the Editor).
Offer positive statements

- We really can do this!
- We’ve made a start, but we need a comprehensive plan to hit the targets.
- Public health will benefit.
- City economies will benefit.
- We’ll grow a positive future!
Elements of positive testimony

I care about climate because...

Thank you for signing K4C, and thank you for... [actions city has taken]

Now it’s time to put in place a strong plan to meet K4C commitments
Supporting others at Council meetings

• You can *attend* City Council meetings of a neighboring city. We’re all in this together.

• *Testimony* is often best from a city’s residents; time slots may be limited.

• We often wear green, or a green bandanna.
What you can do – soon!

Join PCA-Bellevue the evening of Nov 19, Bellevue City Hall, 8 pm
(or somewhat after)

Wear green or a green bandanna
What you can do in the next few months

Attend a meeting of the PCA group for your city or a nearby city
Questions?
Thoughts?
Ideas for collaboration?
Meet others from your city

Circle up chairs *(please pick them up, don’t drag them!)* near the sign for your city’s PCA group.

Or just look for David Schwartz.

- Sign up if you haven’t already
- Get to know others
- Learn a little about your city & group
- Share ideas
Thank you!

http://peopleforclimateaction.org/
Extra slides
<table>
<thead>
<tr>
<th>City</th>
<th>Recommended contact regarding K4C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bellevue</td>
<td>Lynne Robinson, Janice Zahn</td>
</tr>
<tr>
<td>Issaquah</td>
<td>Mary Lou Pauly</td>
</tr>
<tr>
<td>Kirkland</td>
<td>Jay Arnold</td>
</tr>
<tr>
<td>Mercer Island</td>
<td>Bruce Bassett</td>
</tr>
<tr>
<td>Redmond</td>
<td>Cathy Beam (Principal Planner)</td>
</tr>
<tr>
<td>Renton</td>
<td>Paul Hintz (Senior Planner)</td>
</tr>
<tr>
<td>Sammamish</td>
<td>David Goodman (Senior Management Analyst)</td>
</tr>
<tr>
<td>Other cities</td>
<td>We’ll help you find out.</td>
</tr>
</tbody>
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About PSE...

- Puget Sound Energy (PSE) has a big effect on our GHG emissions.
- Changing PSE’s energy mix is important! Other groups are doing that work.
- PCA’s focus: city-level Climate Action Plans to meet K4C goals.
- State-level actions may offer stronger leverage points for PSE.