Environmental Stewardship Initiative City Council Update



Presenters: Jennifer Ewing and Mac Cummins May 7, 2018



Presentation Outline

- 1. ESI Strategic Plan Implementation Progress
- 2. Tree Canopy Update
- Greenhouse Gas Emissions Update
- 4. STAR Communities Overview
- 5. Discussion

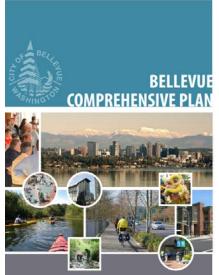


ESI Policy Drivers

- Council Vision regional leadership and high quality built and natural environment
- Comprehensive Plan Environmental Element
- ESI Strategic Plan
- Mayor's Climate Protection Agreement
- King-County Cities Climate Collaboration Joint Commitments







ESI Strategic Plan Progress

Greenhouse Gas Emissions

Mobility & Land Use

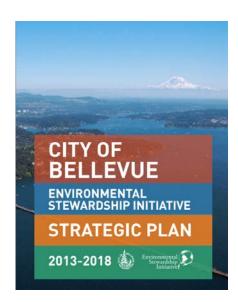
Energy & Water

Materials Management & Waste

Ecosystems & Open Spaces

Plan includes:

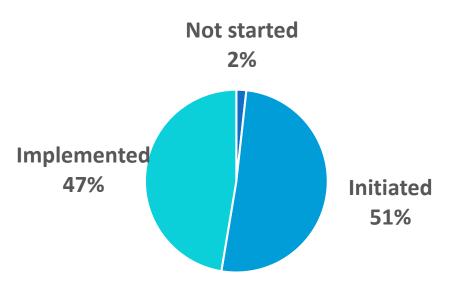
- 17 Sustainability Indicators
- 57 Actions





ESI Strategic Plan Implementation Progress

98% of Actions Implemented or Initiated

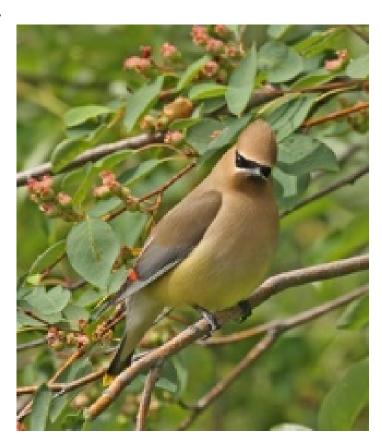


Key Next Steps:

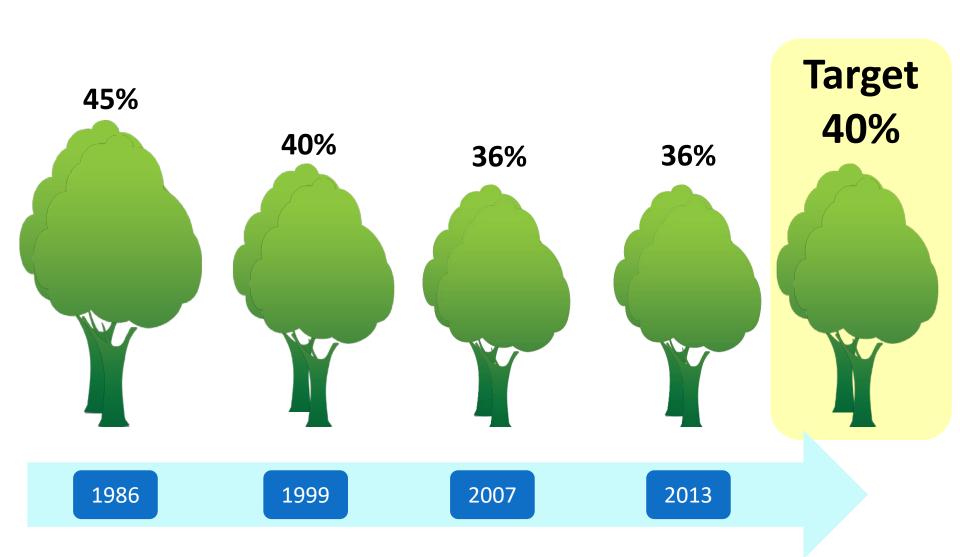
- ESI Progress Report
- Tree Canopy Assessment
- Green Fleet Strategy
- Advanced Green Building Pilot Program
- Zero waste guidelines for City events

ESI Strategic Plan Spotlight actions for presentation

- Report and monitor community and municipal GHG emissions
- Increase tree canopy citywide
 - Research best practices
 - Gap analysis
 - Assess tree loss on private land
 - Develop a right-of-way strategy for trees
- Measure Progress: STAR Communities

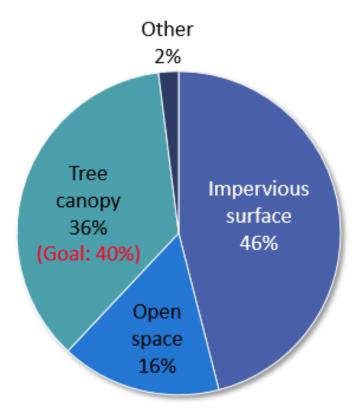


Tree Canopy Trends



Impact of Development

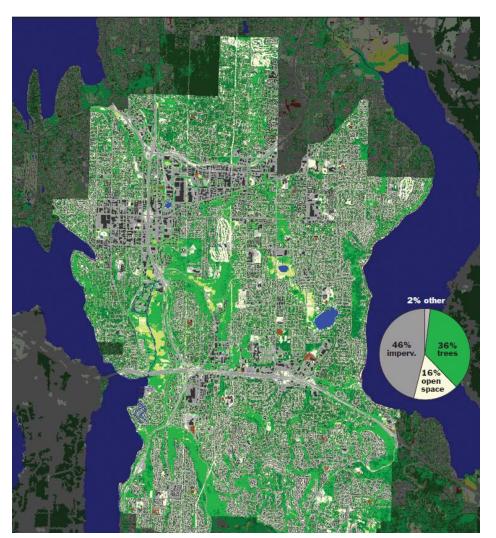




2007 Tree Canopy data

Tree Canopy Assessment

- Part of regional assessment with King Conservation District
- Consistent methods and data throughout region -LIDAR data and aerial imagery
- Regional urban forestry working group



Tree Canopy Update

- Initiated Tree Canopy Interdepartmental Working Group
- Mitigation pre-planning for major infrastructure projects
- Training for Mediation volunteers
- Value of trees education and outreach campaign

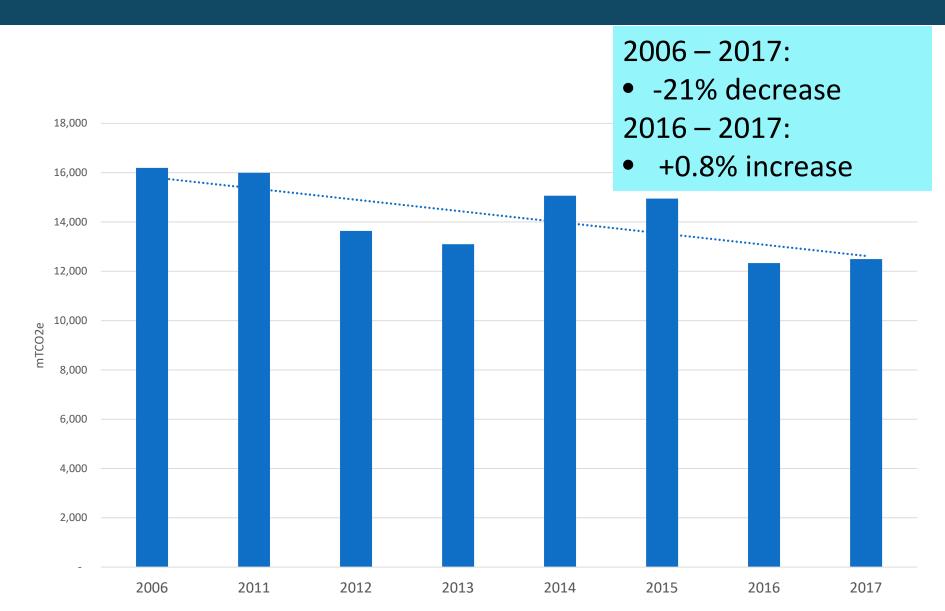


Tree Canopy – Next Steps

- Understand overall trends
- Review best practices
- Strategies for increasing tree canopy



Municipal Operations Greenhouse Gas Emissions



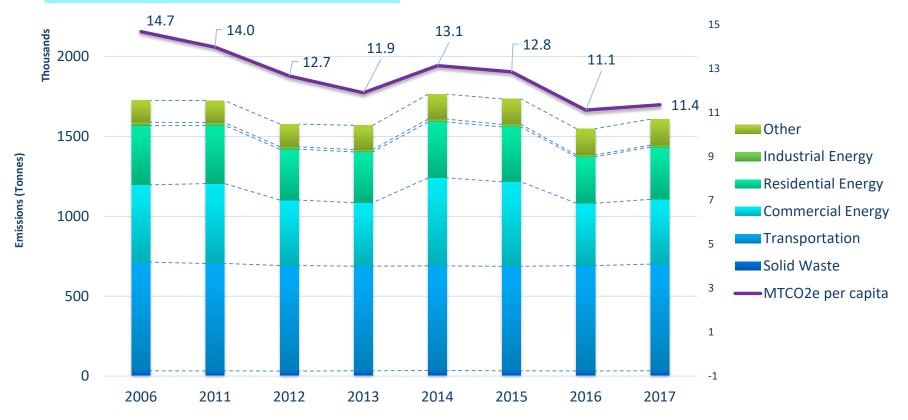
Community Greenhouse Gas Emissions

2006 - 2017 Trends:

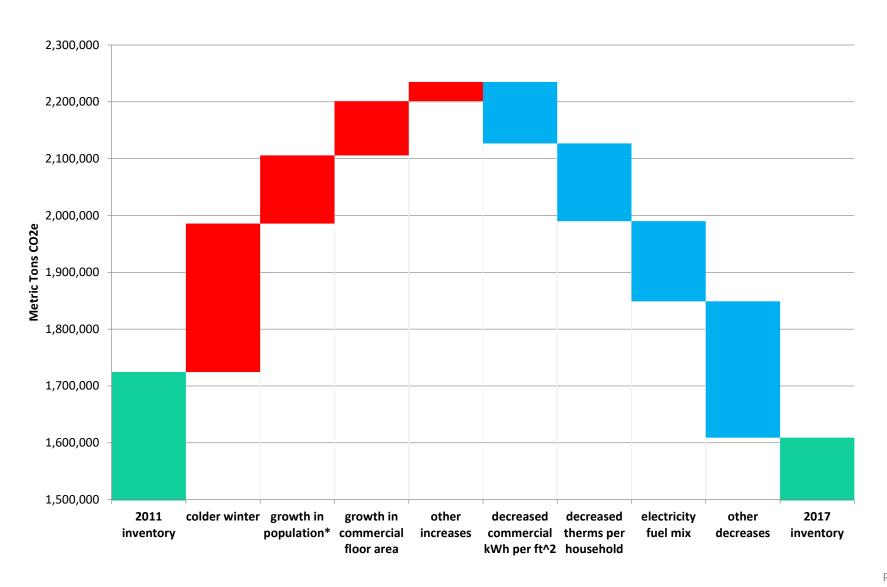
- -7% total emissions
- -23% per capita
- 20% Population growth

2016 – 2017 Trends:

- +3.9% total emissions
- +2.2% per capita

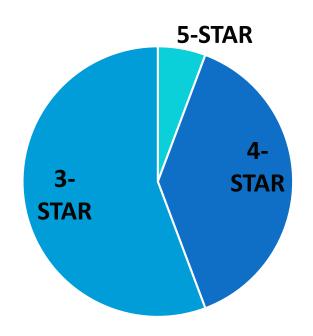


Analysis of Drivers of Change in GHG Inventory U.S. DOE Cities Leading Through Energy Analysis



STAR Communities Overview

- ~70 certified communities
- Largest: Houston, TX 2.1 mil
- Smallest: Devens, MA 1,800
- NW communities
 - Seattle (5-STAR)
 - King County (4)
 - Tacoma (4)
 - Boise, ID (4)
 - Portland, OR (4)
 - Beaverton, OR (3)



Bellevue's STAR Rating

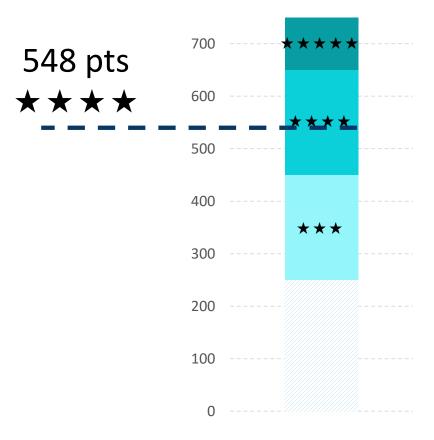


Version 2.0 Certification Levels

5-STAR Community
Recognized as top tier achiever in national sustainability

4-STAR Community
Recognized for national
excellence

3-STAR Community
Recognized for sustainability
leadership

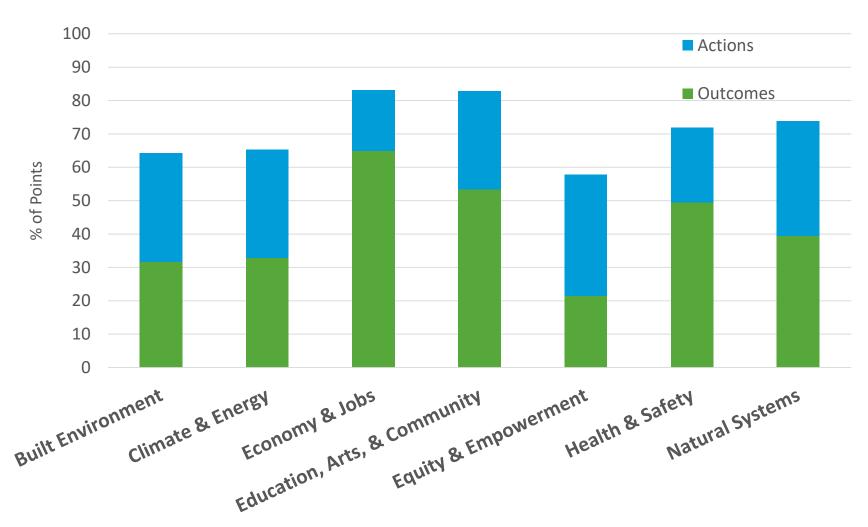


STAR Goal Areas and Objectives

Built Environment	Climate & Energy	Economy & Jobs	Education, Arts, & Community	Equity & Empowerment	Health & Safety	Natural Systems
BE-1: Ambient Noise & Light	CE-1: Climate Adaptation	EJ-1: Business Retention & Development	EAC-1: Arts & Culture	EE-1: Civic Engagement	HS-1: Active Living	NS-1: Green Infrastructure
BE-2: Community Water Systems	CE-2: Greenhouse Gas Mitigation	EJ-2: Green Market Development	EAC-2: Community Cohesion	EE-2: Civil & Human Rights	HS-2: Community Health	NS-2: Biodiversity & Invasive Species
BE-3: Compact & Complete Communities	CE-3: Greening the Energy Supply	EJ-3: Local Economy	EAC-3: Educational Opportunity & Attainment	EE-3: Environmental Justice	HS-3: Emergency Management & Response	NS-3: Natural Resource Protection
BE-4: Housing Affordability	CE-4: Energy Efficiency	EJ-4: Quality Jobs & Living Wages	EAC-4: Historic Preservation	EE-4: Equitable Services & Access	HS-4: Food Access & Nutrition	NS-4: Outdoor Air Quality
BE-5: Infill & Redevelopment	CE-5: Water Efficiency	EJ-5: Targeted Industry Development	EAC-5: Social & Cultural Diversity	EE-5: Human Services	HS-5: Health Systems	NS-5: Water in the Environment
BE-6: Public Parkland	CE-6: Local Government GHG & Resource Footprint	EJ-6: Workforce Readiness	EAC-6: Aging in the Community	EE-6: Poverty Prevention & Alleviation	HS-6: Hazard Mitigation	NS-6: Working Lands
BE-7: Transportation Choices	CE-7: Waste Minimization				HS-7: Safe Communities	Page

Page 17

STAR Scores by Goal Area



ESI Next Steps

- Tree Canopy Assessment final results and analysis
- ESI Progress Report
- Update ESI Strategic Plan
- Advanced Green building pilot program



Discussion

