

King County Strategic Plan

Goal:

Environmental
Sustainability – safeguard
and enhance County's
natural resources and
environment.

Objective:

Minimize County's operational environmental footprint

Green Building and Sustainable Development Ordinance 17709

The intent of this policy is to ensure that the planning, design, construction, remodeling, renovation, maintenance and operation of any King County-owned or financed capital project is consistent with the latest green building and sustainable development practices.

In April 2011, King County Executive Dow Constantine proposed a series of actions that will reduce climate emissions from county operations, save energy and money, and promote joint efforts with cities to reduce community-scale green house gas emissions.



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Green Building Ordinance

- Platinum for Scorecard and LEED projects
- Minimum Performance Requirements
 - Meet SCAP and Energy Plan requirements for emission and energy reductions
 - –85% C&D diversion rate by 2025, Zero Waste of Resources by 2030
 - King County Stormwater Design Manual
- Green Operations and Maintenance

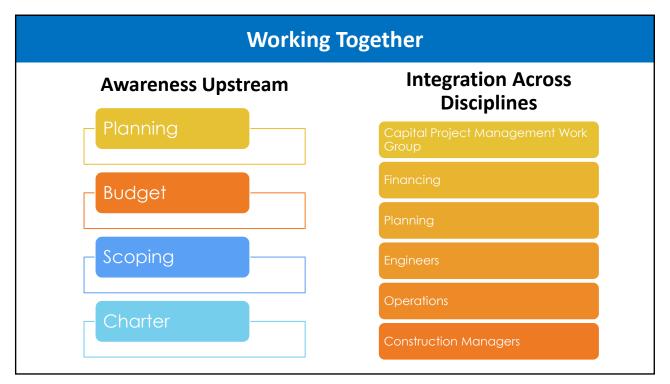




Project Delivery Resources

- Green Building Certifications
- Capital Project Management Manuals
- Carbon Calculator and Mitigation Strategies Handbook
- Life Cycle Cost Analysis and Social Cost of Carbon
- Ecocharrettes
- GHG Mitigation Report
- Energy Modeling
- Sustainable Material Databases

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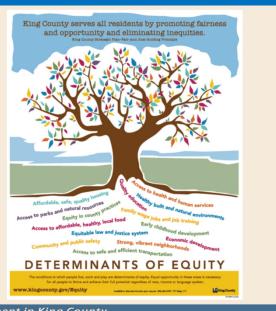
Performance Measures King County-owned buildings and infrastructure will be built, KING COUNTY OPERATIONS GOAL maintained, and operated consistent with the highest green building and sustainable development practices. County Project Construction and Demolition (C&D) Materials Diverted **County-Owned Capital Projects Achieving Highest Possible Certification Levels** from Landfills Target: 100% of projects achieve Platinum by 2020 *Target:* 80% by 2016, 85% by 2025, zero waste of materials by 2030 Target: 100% of new projects certified net zero GHG emissions by 2030 100% 100% 100% Percent of new KC Projects Achieving High Certifications 50% 50% 2015 2016 2017 2025 2030 On average, King County construction projects met the 2016 The number of completed projects achieving Platinum-level status target milestone of 80% C&D diversion. has increased 23% compared to 2015 performance data.

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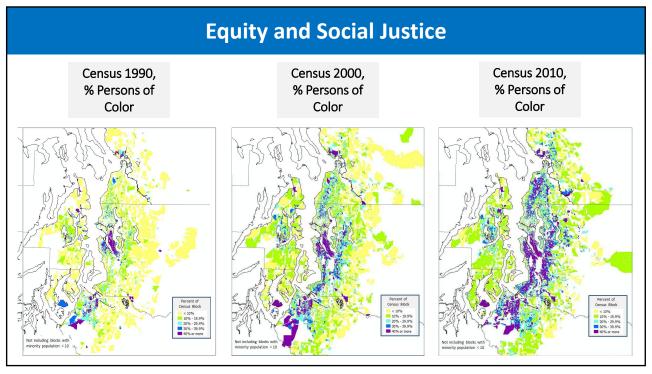
Equity and Social Justice

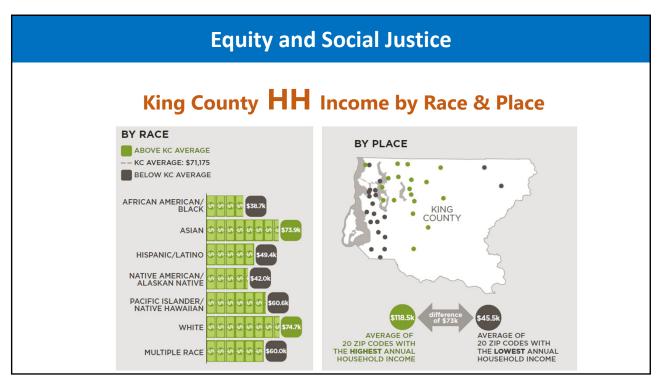
The condition in which people live, work and play are determinants of equity. Equal opportunity in these areas is necessary for all people to thrive and achieve their full potential regardless of race, income or language spoken.

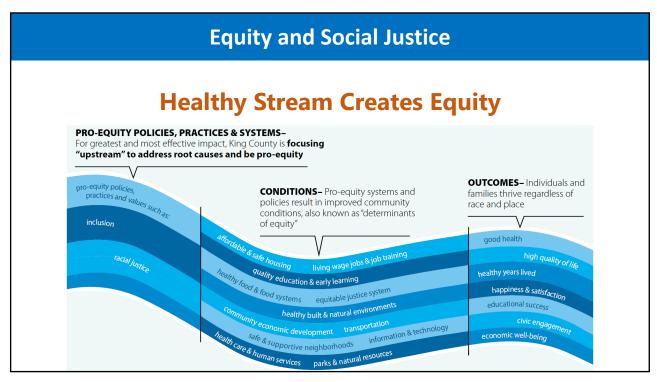
- •Healthy built and natural environments.
 - •Access to safe and efficient transportation.
 - Strong, vibrant neighborhoods.
 - •Family wage jobs and job training.

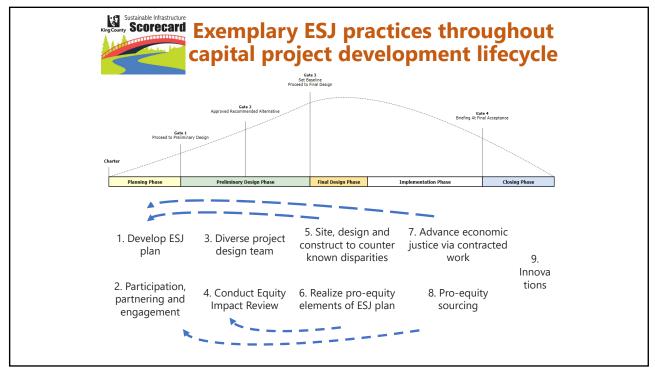


Building for a Healthy Environment in King County







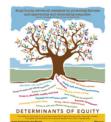


Equity and Social Justice

Triple Bottom Line Approach

- Financial Stewardship
- Equity and Social Justice
- Sustainability

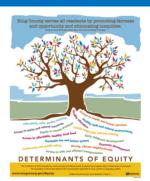




26 ESJ points out of 81 Scorecard points = 1/3 of total points

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Equity and Social Justice



Procurement

RFPs and Contracts
Evaluation Criteria
Experience
Scope of Work
Deliverables
Level of Effort
Budget

"Approach to Work - The County will evaluate the Proposer's narrative describing their approach to completing the Scope of Work as identified in the RFP. The proposal should identify and propose approaches to successfully address critical project issues including: 1) conceptual design challenges; 2) opportunities for technical innovation; 3) integration of equity and social justice elements into design; 4) sustainable design and certification; 5) permit and other regulatory requirements; 6) process for incorporation of employee input into design; and 7) up to two other elements the Proposer believes will constitute challenges to successful project completion."

King County Strategic Climate Action Plan



2015 SCAP

SECTION 1: Reducing Emissions

- **➤ Transportation & Land Use**
- ➤ Buildings & Facilities Energy
- **≻**Green Building
- **▶** Consumption & Materials Management
- > Forests and Agriculture

SECTION 2: Preparing for Impacts

We work at two scales:



Community



Government Operations

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Our Goal

Priority Action: Develop 10 Net Zero Energy and Living Building Challenge projects by 2020.





Your plan is the best that I've seen. It has bold interim and bold final targets, and it proposes policies that would move the county powerfully in the right direction.

Denis Hayes, President, Bullitt Foundation, Co-Founder of Earth Day

Awesome! But let's be honest. Reality. Challenges.



So how did we move forward?

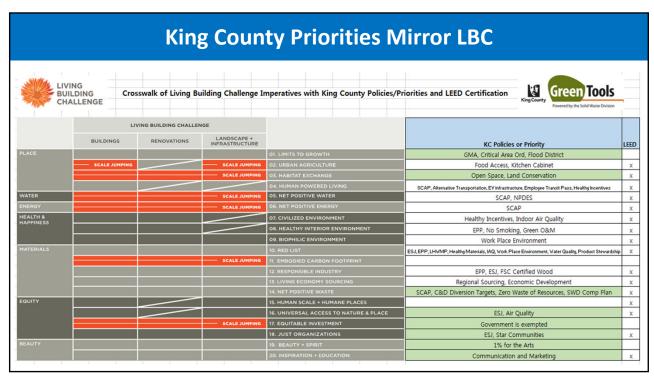
- Strong direction from Executive to pilot these approaches across our agencies and lines of business.
- Understanding that combatting climate change will require fundamental changes in how we design and manage built environment.
- Empowerment of employees to surface barriers and policy issues.

So how did we move forward?

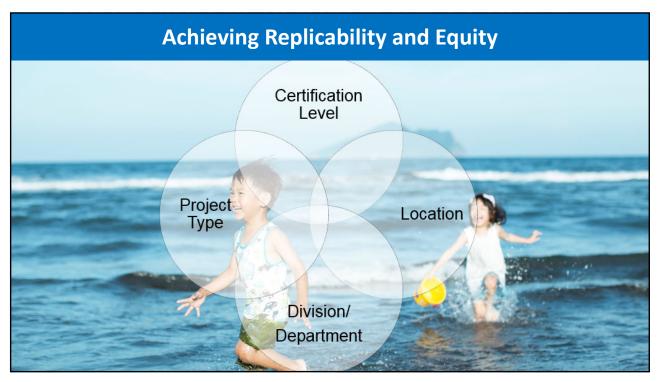
- Partnership with ILFI and Bullitt Foundation to support "Living Building Accelerator."
- Shared resources for feasibility assessments and technical assistance.
- "We can figure this out attitude" of staff and partners.

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Extensive Collaboration **Note Court Acceptance CASE STATES** SOUTH COUNTY RECYCLING AND TRANSFER STATION COCKETS **LAKE MORE TWO WHITE AND TRANSFER STATION COCKETS **LAKE











King County Parks North Utility Maintenance Facility Marymoor Park, Redmond, WA

- 2007 LEED Certified building
- Energy retrofit project achieved Zero Energy certification 2019
- Two-building complex: office/shop building and parking/maintenance "hangar"



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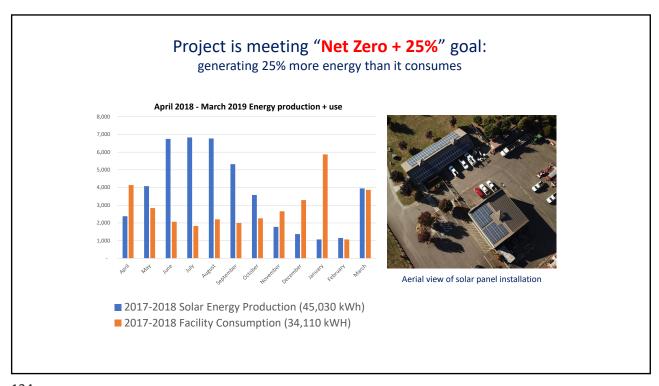
Crew building break room:

Energy upgrades included replacing all lighting with high-efficacy LED lamps and upgrading the HVAC system with a premium efficiency variable refrigerant flow heat pump system.



Crew building workshop:

Facility is meeting net-zero energy status, despite installation and use of a new plasma cutter to fabricate metal bollards and other equipment for park facilities.



South County Recycling and Transfer Station



• Type: Industrial/office

• Location: Algona

• Status: Design Phase

• **Description:** Will design, permit and construct a new transfer and recycling facility to replace existing Transfer Station



Bullitt Foundation Grant:
 Provided technical assistance from ILFI for ZE/LBC Feasibility Assessment



