US EPA ARCHIVE DOCUMENT

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Green Purchasing

Tools for Federal, State,and Local Governments

US EPA's Sustainable Materials Management Web Academy
Solid Waste Management and Recycling Educational Series

Green Purchasing Webinar

King County

July 19, 2012

Environmental Policies

Environmental Purchasing Policy

Strategic Plan

Climate Plan

Energy Plan

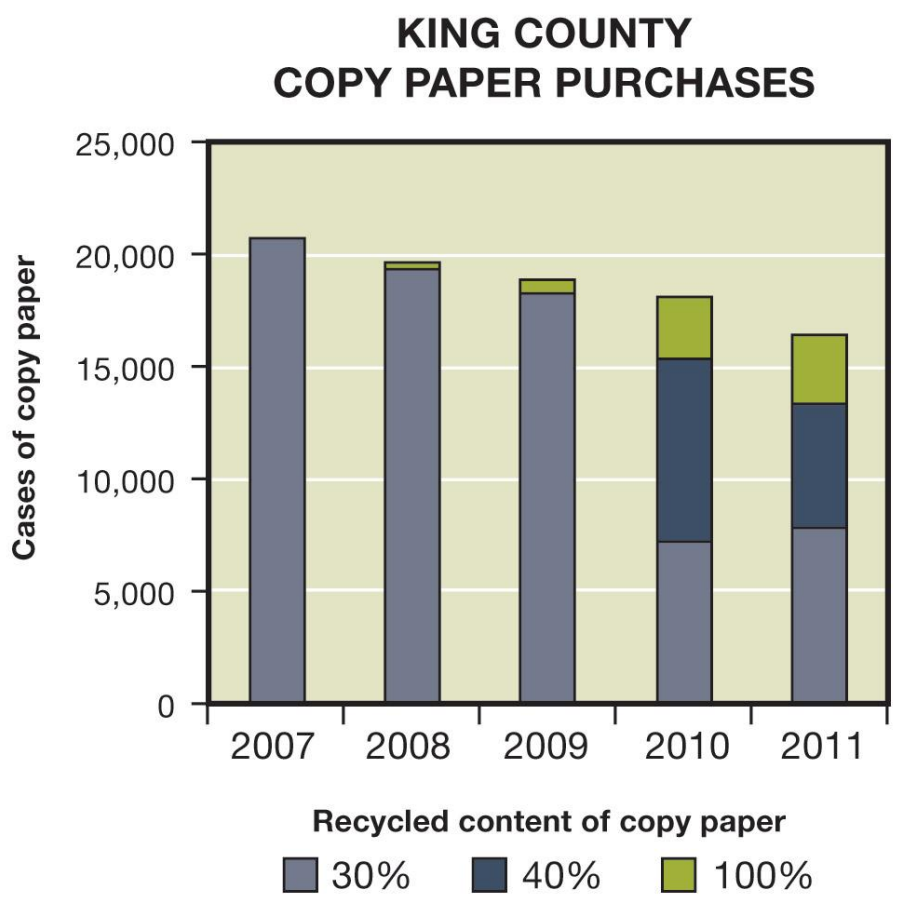
Green Building Ordinance

Environmental Purchasing

- Buy recycled and environmentally preferable products "whenever practicable" [KCC 18.20]
  - Mandates
    - Recycled paper (min. 30% copy; 100% when available)
    - Electronics recycling (e-Steward certified or equiv)
    - Re-refined motor oil
  - Considers multiple attributes of products
    - Less-toxic
    - Resource efficient
    - Reduced GHG emissions

Copy Paper

- 2012 Goal
  - reduce copy paper consumption by 20%
  - increase purchase of 100% recycled content
- GHG Emissions
  - Reduced 375 tons* annually



*estimated by the Paper Calculator – www.papercalculator.org

Electronics

- e-Stewards Enterprise
  - 68,099 lbs equipment
  - 14,447 lbs televisions
  - 6,820 lbs CRT's
  - 1,253 LCD's

- EPEAT Products
  - 2,806 - mostly gold
  - GHG emissions
    - Reduced 660 metric tons

*estimated by the "Electronics Environmental Benefits Calculator" – www.epeat.net

Green Cleaners

Cleaning Protocols

Chemical Use Reduction

Worker Health & Safety

Certified Cleaners

Microfiber Cloths & Mops

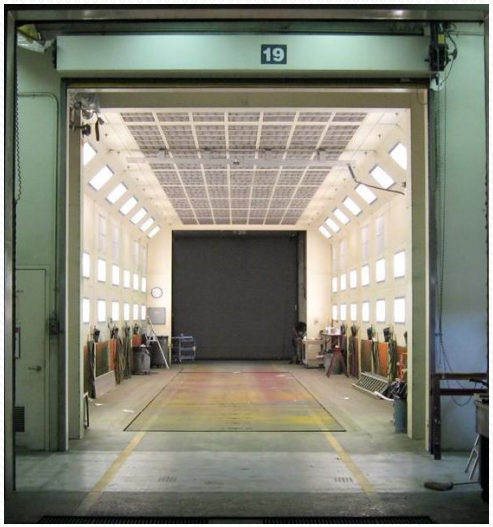
Cost Savings

Green cleaning P2 calculator: www.fedcenter.gov/janitor/

Lighting

- 2012 Lighting Plan
- Purchasing
  - Fluorescents
  - LED's
- Lighting retrofits

- Lamp recycling
  - 40,938 compact, straight and u-tube
  - 2806 HID's
  - 3717 lbs ballasts



Energy calculators at: www.energystar.gov

Compost

- Yard Waste
  - Local
  - Recycled
- Biosolids
  - Municipal product
  - Loop brand
- Benefits:
  - Carbon sequestration
  - Plant growth
  - Water quality
  - Landscape restoration

Hybrid/Electric Vehicles

- Cars and trucks
  - 30% - 50% fuel reduction
  - 19-23% ROI - higher up front costs
- Hybrid buses
  - save $4.7 million annually in fuel costs and reduce greenhouse-gas emissions by 18,000 tons

Electric Vehicles

- Electric cars
  - 20 for MetroPool
  - 5 for county fleet
- Plug-in hybrid/electrics
  - Battery conversions
- Charging Stations
  - 27 in 2011
  - 54 in 2012 (scheduled)

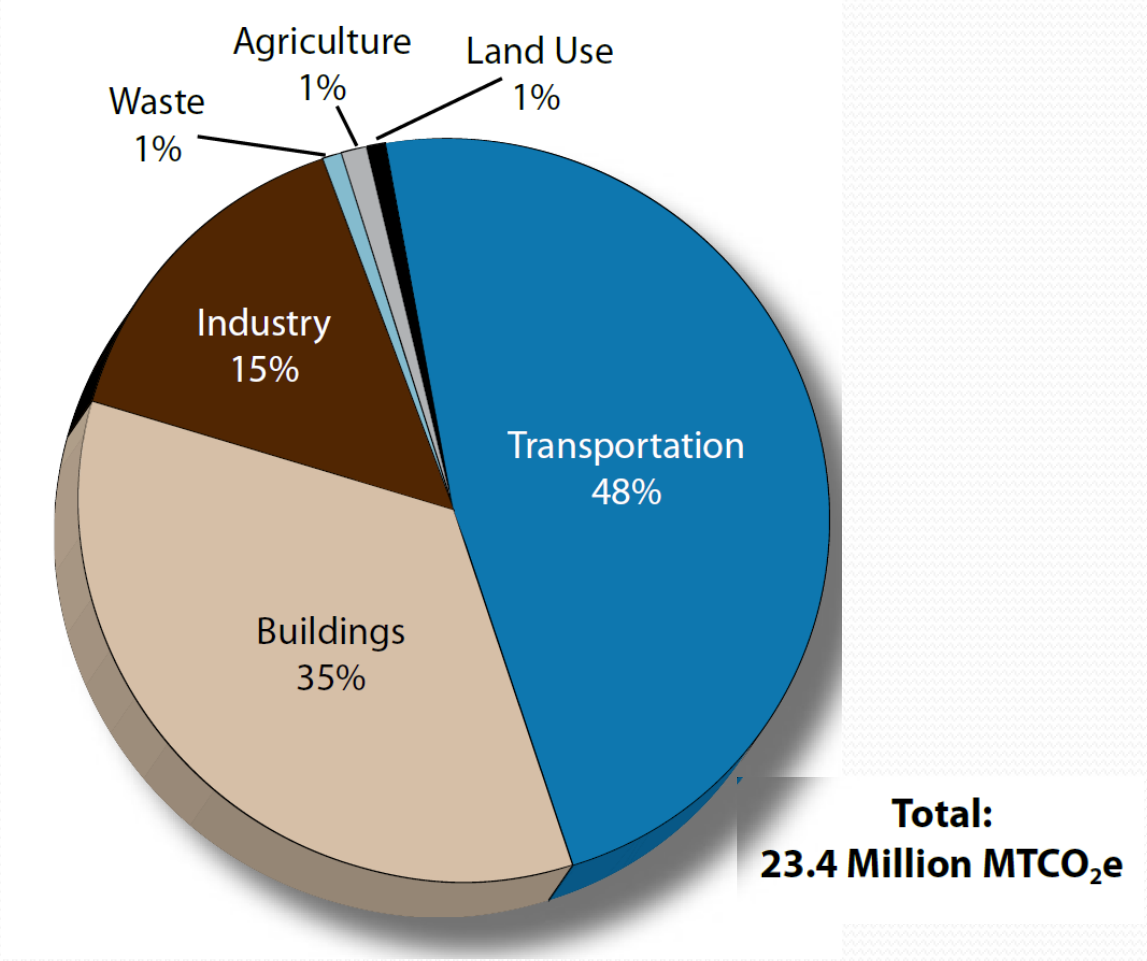
Renewable Energy

- Goal: 50% energy from renewable sources
- Purchase
  - Roads – 100%
  - Facilities – 2 buildings
- Produce
  - Waste-to-energy
    - West Point Treatment
    - Cedar Hills Landfill

Green Up!

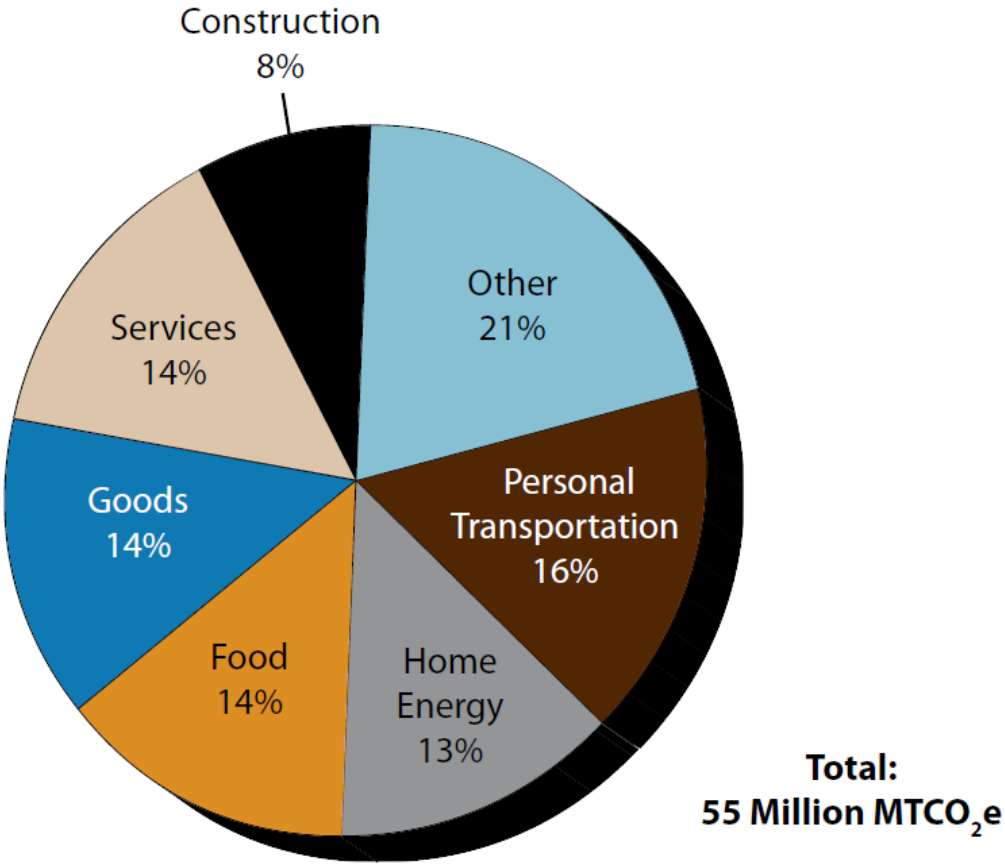
Green-e

“Geographic Plus” Emissions



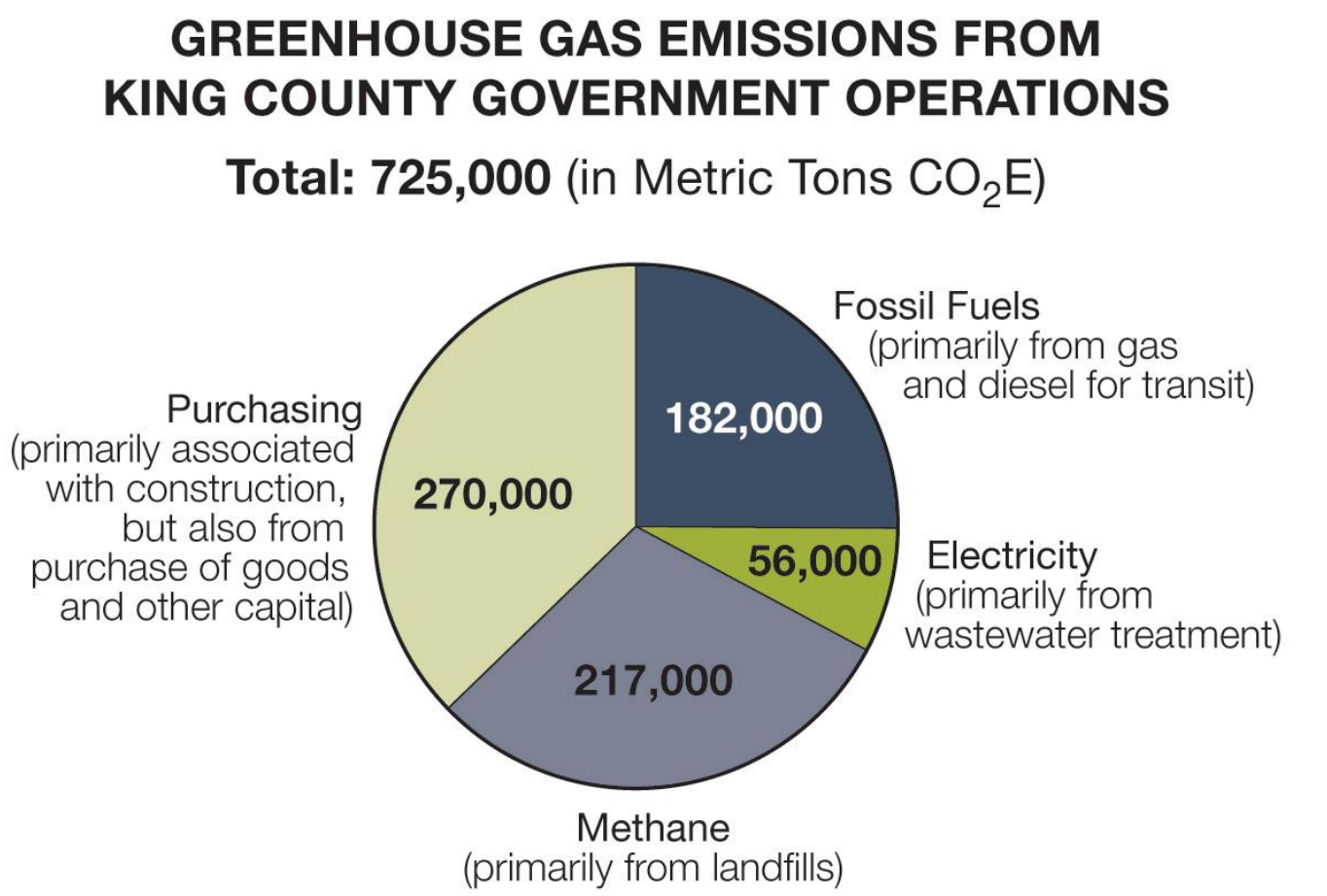
2008 data

“Consumption-based” Emissions



2008 data

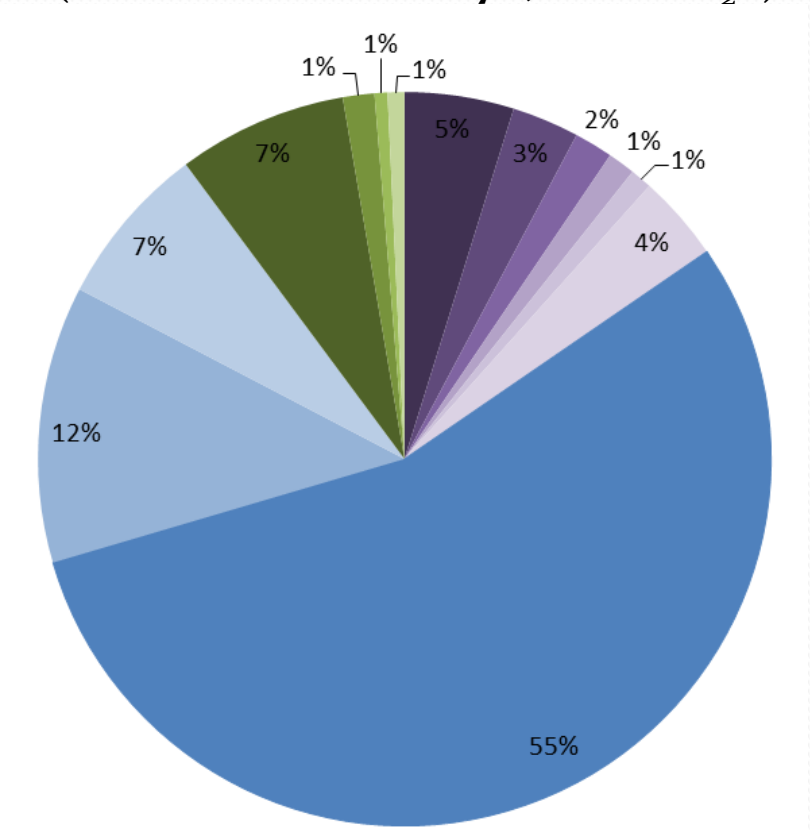
GHG Emissions - Purchasing



2008 data

GHG Emissions - Purchasing

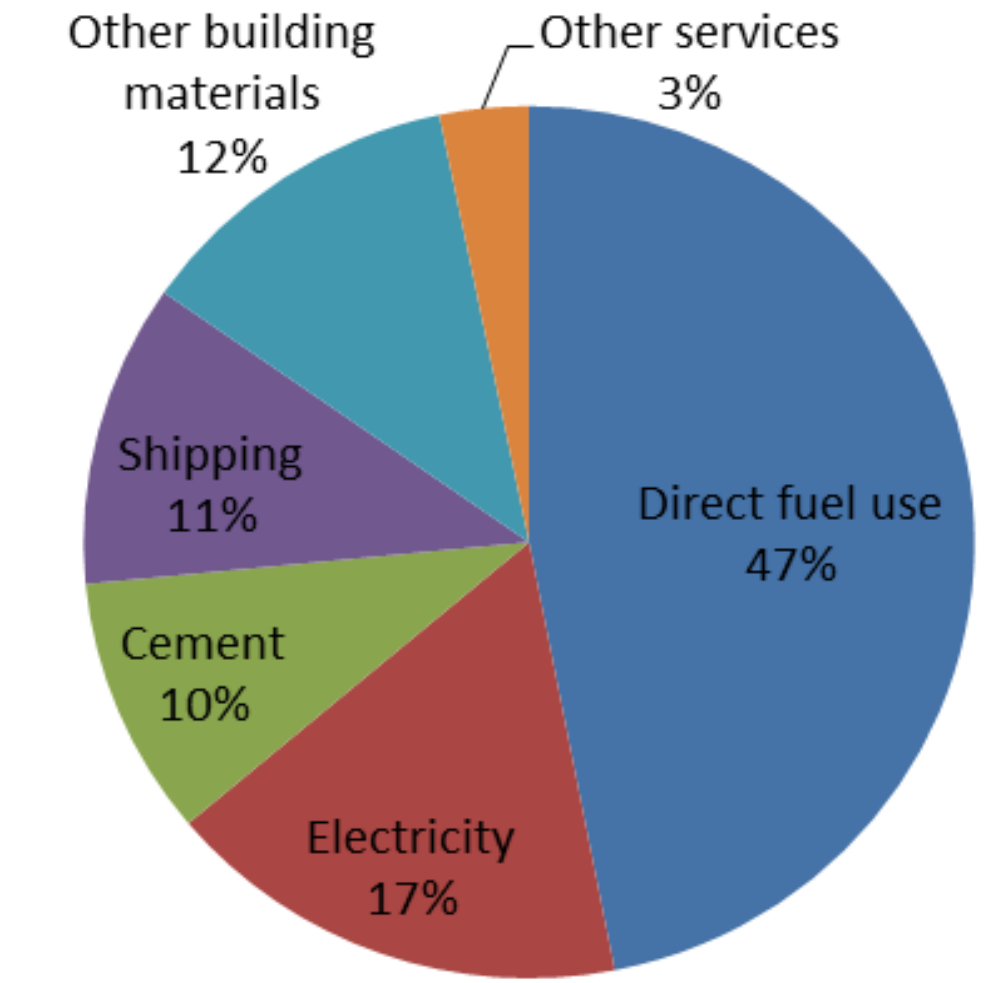
Embodied Emissions Associated with King County Government Purchasing (Total Emissions: 270,000 tCO_2e)



2008 data

GHG Emissions - Purchasing

Estimated Sources of Construction related GHG



What's Next?

- Update EPP ordinance
- Use new climate data to help inform environmental purchasing efforts
- Continue partnerships (NACo, RPN, EPA)

Member RPN Responsible Purchasing Network

NACo National Association of Counties The Voice of America's Counties

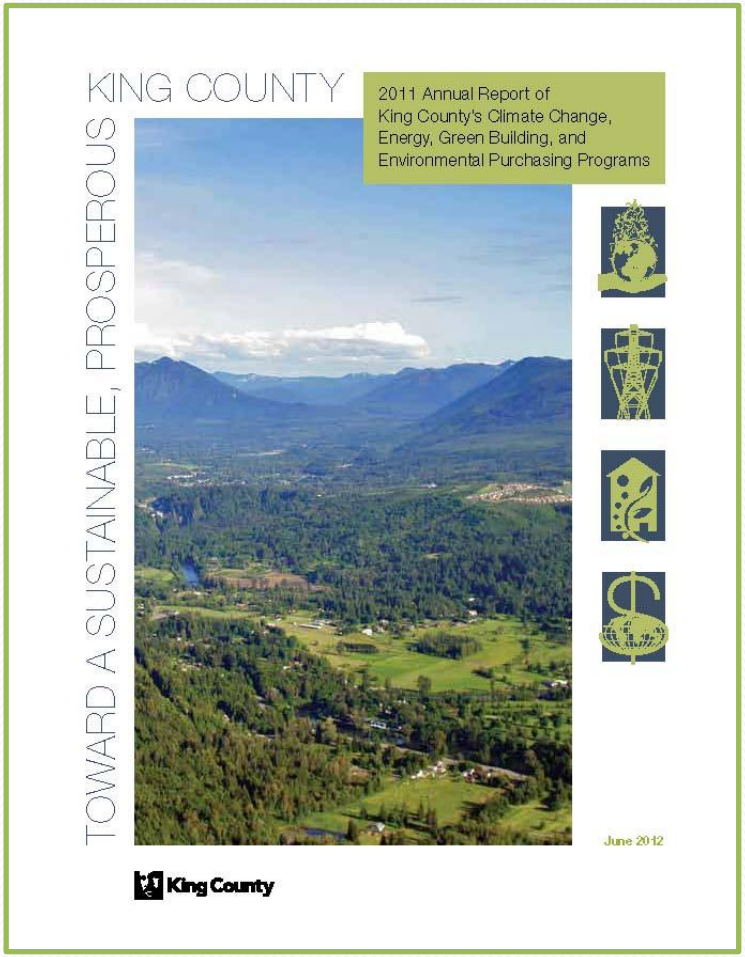
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

kingcounty.gov/climate

Sustainability Report

Toward a Sustainable, Prosperous King County

2011 Annual Report of King County's Climate Change, Energy, Green Building and Environmental Purchasing Programs



kingcounty.gov/climate

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