Overview

- Brief history of sustainability on MI

- Sustainability Program functions

- Interaction with Utility-related programs

- Selected Examples

- Discussion

CMI Sustainability Background

- **2006** Comp Plan language added regarding conservation/sustainability

- **2007** Council Resolution 1389 (*Reduce GHG's 80% by 2050*)

- **2011** City joins King County-Cities Climate Collaboration (K4C)

- **2012** Sustainability Task Force convened

- **2013** City launches first Sustainability position (0.5 FTE)

- **2019** Additional Comp Plan language on Climate Action/GHG's

- **2021** Budget: 100% sustainability position approved within Public Works

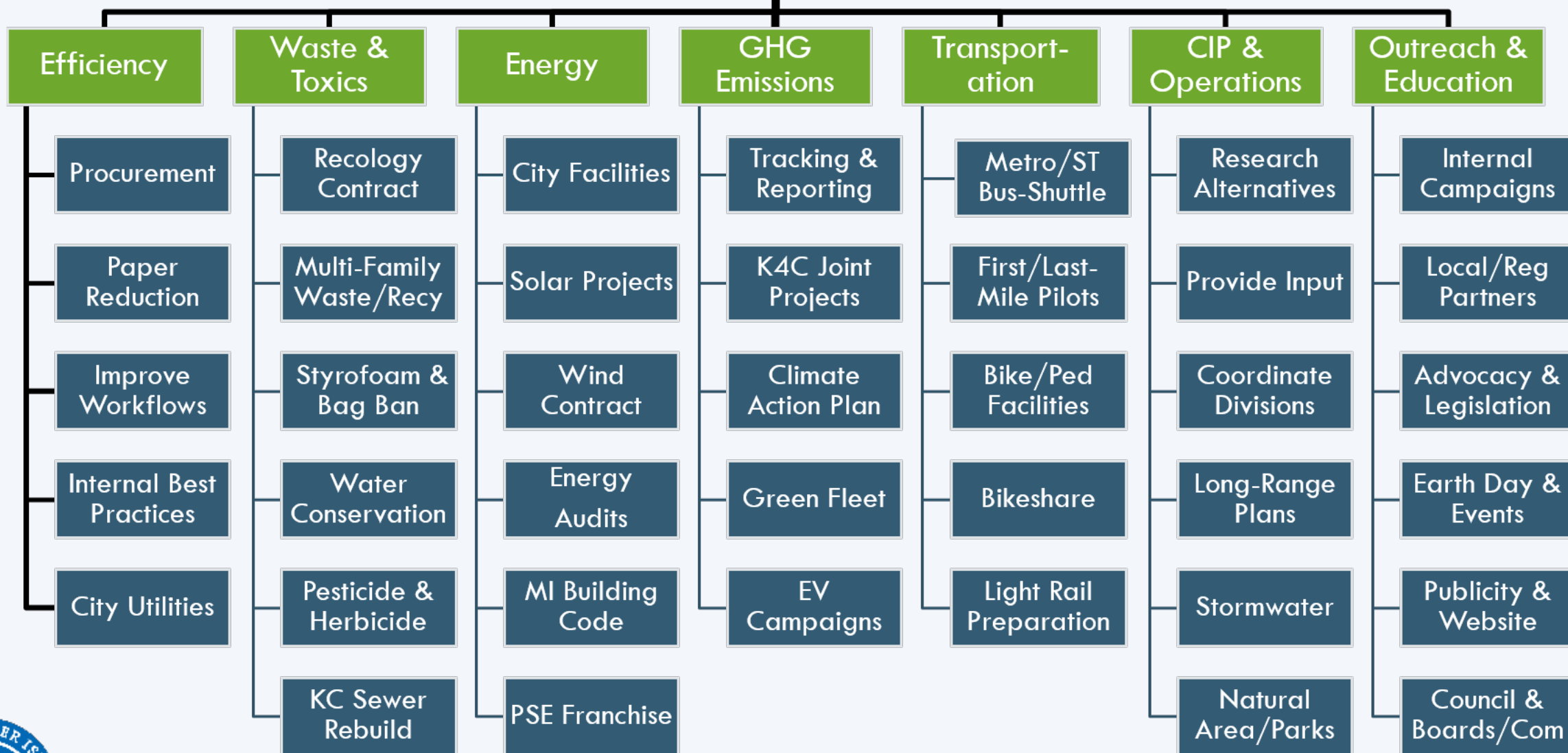# Sustainability Program Functions

Integrated across all City operations:

- Efficiency
- Waste & Toxics
- Energy
- GHG Emissions
- Transportation
- CIP & Operations
- Outreach & Education

SUSTAINABILITY PROGRAM FUNCTIONS

Efficiency	Waste & Toxics	Energy	GHG Emissions	Transportation	CIP & Operations	Outreach & Education
Procurement	Recology Contract	City Facilities	Tracking & Reporting	Metro/ST Bus-Shuttle	Research Alternatives	Internal Campaigns
Paper Reduction	Multi-Family Waste/Recy	Solar Projects	K4C Joint Projects	First/Last-Mile Pilots	Provide Input	Local/Reg Partners
Improve Workflows	Styrofoam & Bag Ban	Wind Contract	Climate Action Plan	Bike/Ped Facilities	Coordinate Divisions	Advocacy & Legislation
Internal Best Practices	Water Conservation	Energy Audits	Green Fleet	Bikeshare	Long-Range Plans	Earth Day & Events
City Utilities	Pesticide & Herbicide	MI Building Code	EV Campaigns	Light Rail Preparation	Stormwater	Publicity & Website
	KC Sewer Rebuild	PSE Franchise			Natural Area/Parks	Council & Boards/Com

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Sustainability in the Utilities

- Stormwater
  - LID techniques
  - Road runoff & fish toxicity
  - Spills and NPDES
  - Stream channel restoration
  - Shoreline erosion

- Sewer
  - Energy usage of 24/7 pumps
  - Equipment & truck selection

- SPU Potable Water
  - Saving Water Partnership
  - Efficient water usage
  - Remote reading technology
  - VFD Pumps

- Recycling, Compost, Garbage
  - Diversion rates & outreach
  - Alt-Fuel trucks

- PSE Electricity and Gas
  - Franchise contract renewal
  - Green power purchases
  - Large solar installations

Adding a Sustainability Lens

- Is there a more energy efficient alternative?
- What is the total cost of ownership?
- Is there a cleaner fuel/machine/process available?
- Can projects be scheduled to share resources or equipment?
- Have we searched for a local supply (vs off-island)?
- Does the project improve quality of life, equity?
- What are the waste, toxics, emissions impacts?
- How are we tracking impacts/gains?
- Can the project incorporate recycled materials?
- How will construction and demolition debris be handled?
- How does the project help the City's Carbon Footprint?
- Can the public get involved and how are we telling our story?

Selected Examples

Stormwater Example: Oyster Shell Catchbasin Pilot

Sewer Example: Pump replacements & backup generators

SPU Water Example: Remote meter reading pilot

Recology Example: Clean Fuel vehicles; special services

PSE Example: 20-year Windpower contract

Discussion

www.mercerisland.gov/Sustainability

Extra: Selected Sustainability Milestones

- **2013**: EPA recognition as "Green Power Partner of the Year" for the City's clean energy programs.
- **2014**: Begin multi-year energy-saving retrofits of City facilities and streetlights.
- **2014**: Implement local single-use plastic bag ban.
- **2015**: Launch popular Metro Route 630 Commuter Shuttle direct to downtown Seattle.
- **2016**: Update code to require LEED Gold or Built Green 4-Star in all Town Center construction.
- **2017**: Expand electric vehicles in City fleet to four vehicles and add more public charging stations.
- **2018**: Pilot several progressive first/last-mile initiatives with Lyft, Uber, Lime, Jump.
- **2018**: Completion of second Solarize installation campaign leads to almost 90 new solar arrays in sum.
- **2018**: Receive "SolSmart Gold" status from the Department of Energy for solar achievements.
- **2019**: Renew City's GHG pledges with K4C (the nationally-recognized King County-Cities Climate Collaboration that Mercer Island helped found in 2011).
- **2020**: Switch 100% of the City's energy needs to renewable windpower from a new PSE wind farm.