

# Re



**King County**

Department of  
Natural Resources and Parks  
**Solid Waste Division**

Waste  
Prevention

Resource  
Recovery

Waste  
Disposal

## King County Solid Waste Division



## Mission

- Reducing single use
- Reusing everything that can be
- Recycling what's left
- Renewing communities
- Rethinking what's possible

## Vision

Healthy, safe, and thriving communities  
in a waste-free King County

Re+



# Climate Change Impacts

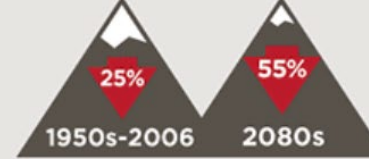
## INCREASED HEAT

Average annual air temperature in the Puget Sound region is increasing (+1.3°F, 1895-2014), and is projected to be 5.5°F warmer in the 2050s.



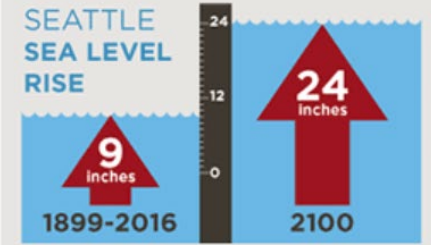
## LESS SNOW

### AVERAGE CASCADE SNOWPACK



## RIISING SEA LEVEL

### SEATTLE SEA LEVEL RISE



## PUBLIC HEALTH IMPACTS DUE TO HEAT



MORE ILLNESSES



MORE HOSPITALIZATIONS AND DEATHS

## HEAVY RAIN EVENTS ARE INCREASING

By the 2080s, our heaviest rain events are expected to be 22% heavier.



## MORE FREQUENT COASTAL FLOODING

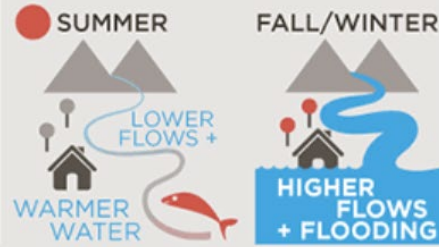


## INCREASED WILDFIRE THREAT



4-fold increase in annual area burned projected for Washington's forests by the 2040s.

## EXTREME RIVER CONDITIONS



## INCREASED COSTS TO SHELLFISH GROWERS



# Re+ is a call to action

## Strategic Climate Action Plan

1.3.3 - The Department of Natural Resources and Parks (...) shall achieve at minimum net carbon neutrality on an annual, ongoing basis

5.1.1 - Deliver zero waste of resources plan (ZWORP)

5.1.3 - Zero food waste in landfill in 2030

## KC County Code

10.14.020 County goals.

It is King County's goal to achieve zero waste of resources by 2030 through maximum feasible and cost-effective prevention, reuse and reduction of solid wastes going into its landfills and other processing facilities.

## KC Equity and Social Justice Strategic Plan

Vision: A King County where all people have equitable opportunities to thrive.

"(O)ur investments (...) should assess and address disproportionate environmental burdens and promote the equitable access to environmental benefits and resulting economic opportunities."

## K4C Commitment

Develop a regional strategy through the adopted 2019 Comprehensive Solid Waste Management Plan to reach zero waste of resources by 2030

## Comprehensive Solid Waste Management Plan

Several policies and actions in the Comp Plan support Re+ actions



# RE+ Program Support

*After an introductory statement, residents are widely supportive of the Re+ program.*

*As part of efforts to address climate change, the government of King County has set a goal to cut the amount of recyclable or reusable materials that are being sent to the landfill by 2030 by 70%. To help achieve that goal, the County has developed a waste reduction program known as "RE+," to invest in a variety of programs, technologies, and facilities to achieve this goal.*

*In general, do you strongly support, somewhat support, somewhat oppose, or strongly oppose the concept of the RE+ program?*

## Support 63%

Somewhat 20%

Strongly 42%

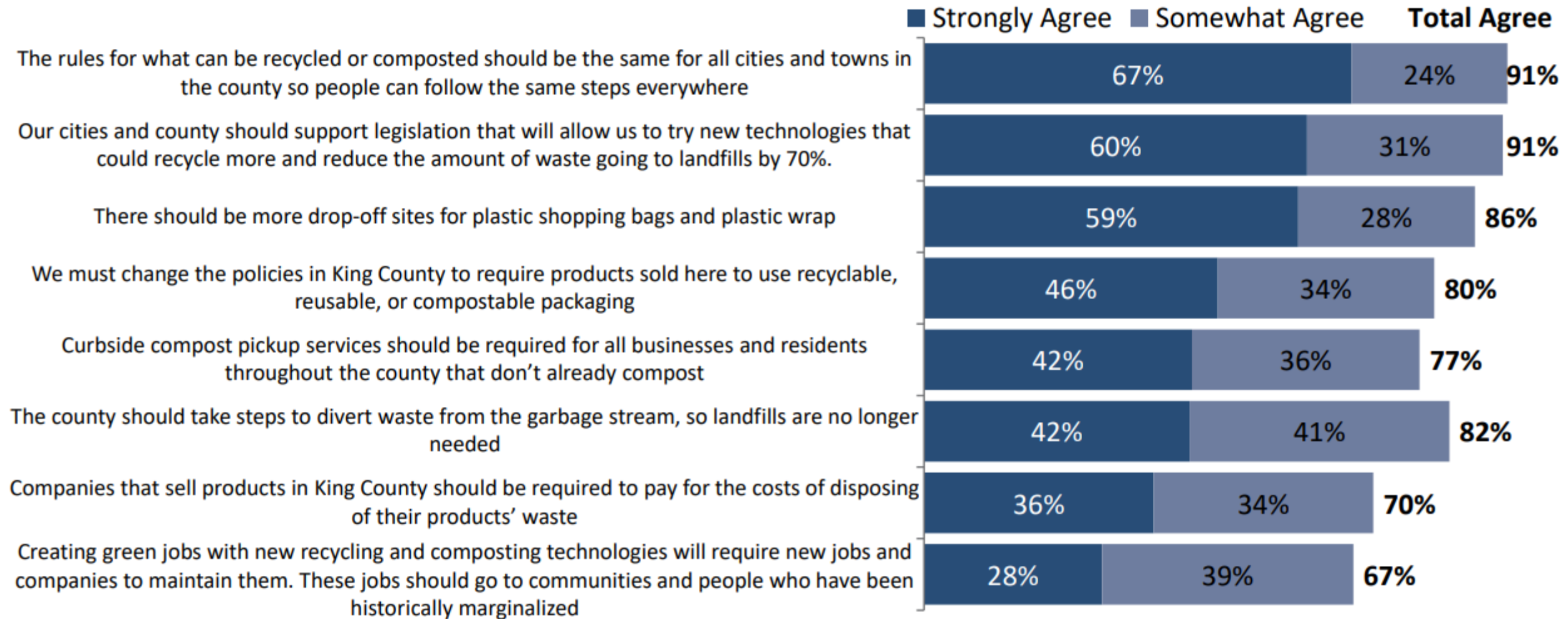
## Oppose 8%

Somewhat 3%  
Strongly 4%

## Haven't heard of/ (Don't know) 29%

# RE+ Program Statements Test

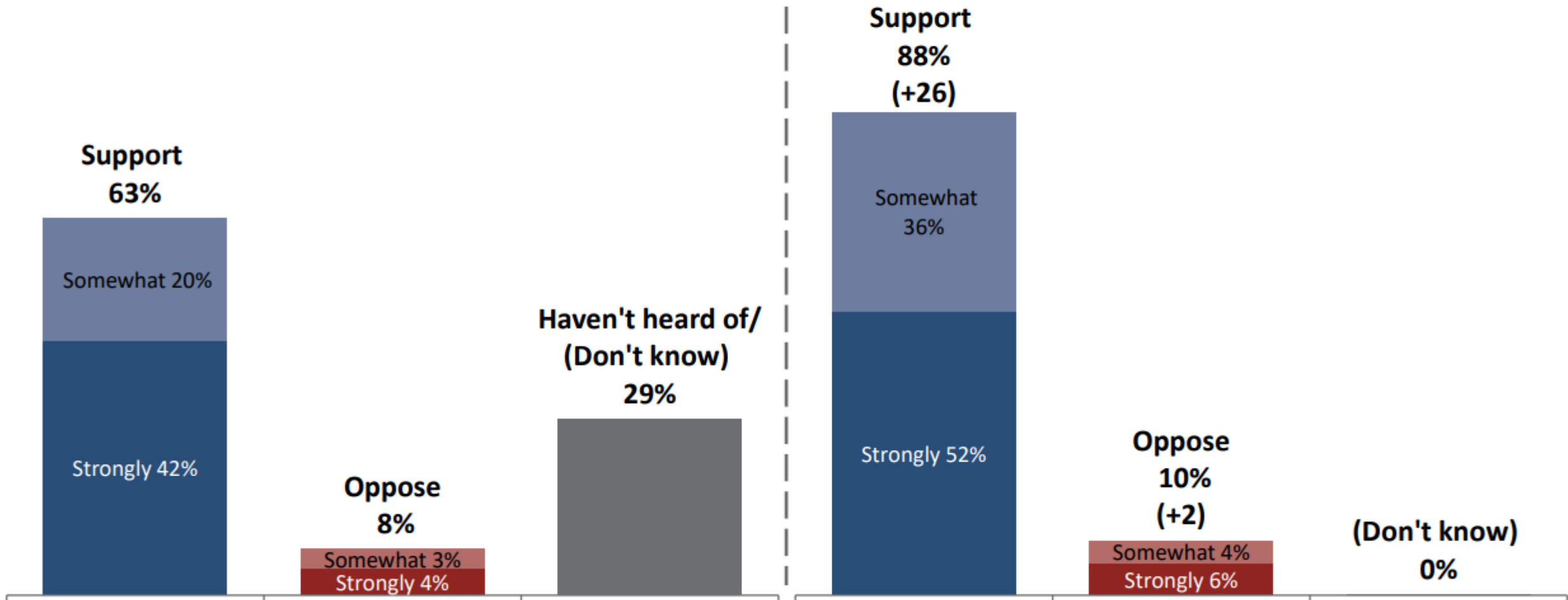
*At least two-thirds agree with all of these statements, indicating general support for the Re+ concept on a wide range of potential program elements.*





# Support After Program Components

*After providing additional information about the Re+ program, support for Re+ increases to nearly 90%.*



Q33/41. After hearing all of this... Would you say you strongly support, somewhat support, somewhat oppose, or strongly oppose the RE+ program?

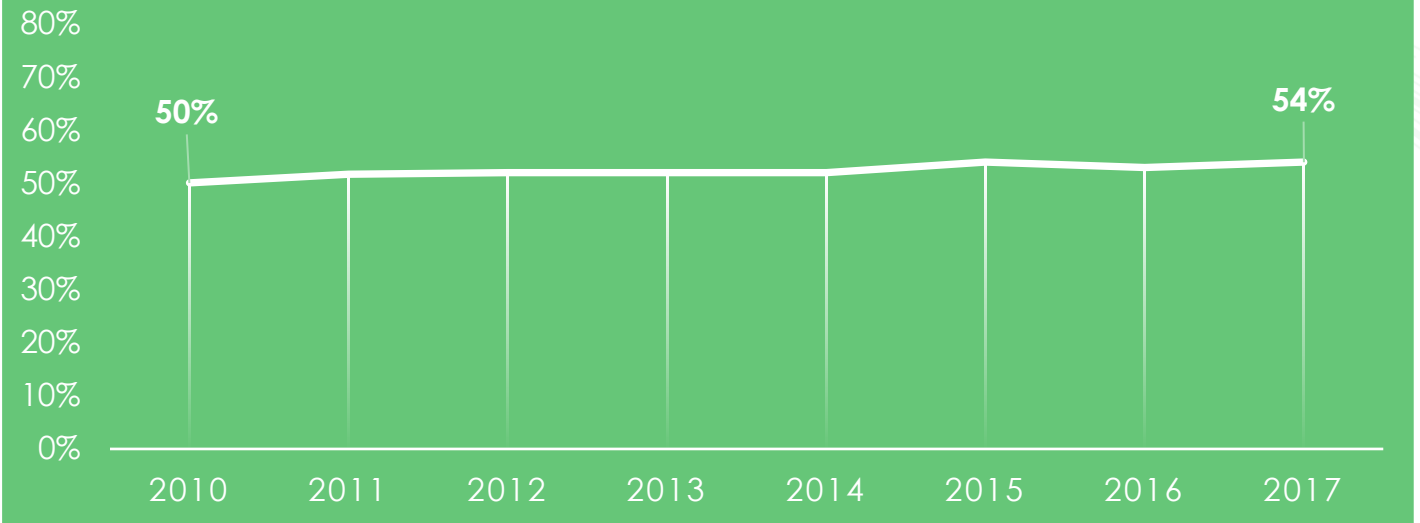
## Where is King County leading?

- Curbside collection of non-organic recyclables
- C&D Recycling
- Yard waste collection

## Where is King County lagging?

- Weekly organics & recycling collection
- Extended Producer Responsibility
- Banning food waste heading to landfill

### RECYCLING RATES HAVE REMAINED RELATIVELY FLAT FOR NEARLY A DECADE





# What does ZERO WASTE of RESOURCES look like?

**465,000  
TONS**  
LESS WASTE

**1 MILLION**  
MORE TREES



RECOVERED FOOD FOR  
**92,000**  
PEOPLE



**500+**  
GREEN  
JOBS  
CREATED



**24 MILLION**  
FUTURE  
DISPOSAL  
COST  
AVOIDANCE



**150,000**  
FEWER  
BARRELS OF  
OIL BURNED



# Re+ Fast Start Actions

## Plastic & Paper (26%)

- WRAP Act / Extended Producer Responsibility Legislation

## Organics (28%)

- Single Family Collection
- Non-Residential Food Waste Recycling
- Organics Legislation

## Community

- Community Panel
- City/County Collaboration
- Re+ City Grants

- Mixed Waste Processing
- Circular Economy Grants

- NextCycle WA

# Organics (28% of landfill)

## **WA State Organics Legislation**

- Diversion potential: 110,000 tons/yr
- GHG reduction: 67,000 MTCO<sub>2</sub>e/yr

## **Single Family Organics Collection**

- Diversion potential: 14,000 tons/yr
- GHG reduction: 6,000 MTCO<sub>2</sub>e/yr

## **Non-Residential Food Waste Recycling**

- Diversion potential: 50,000 tons/yr
- GHG reduction: 15,000 MTCO<sub>2</sub>e/yr

# Plastic, Paper, and Other Materials (26% to landfill)

## Extended Producer Responsibility (EPR) for Packaging and Paper Products (PPP)

- Diversion potential: 42,000 tons/yr
- GHG reduction: 75,000 MTCO<sub>2</sub>e/yr

## Mixed Waste Processing

- Diversion potential: 200,000 tons/yr
- GHG reduction: 141,000 MTCO<sub>2</sub>e/yr

## NextCycle Washington

- Impacts dependent on participants

## Re+ Circular Economy Grants

- Impacts dependent on participants





# Community

## **Community Panel**

A group of community members that live, work, and volunteer in King County who will help guide SWD in the equitable implementation of Re+

## **Re+ City Grant Proposal**

A competitive grant program for King County cities to access and accelerate regional Re+ transformation

## **City-County Collaboration**

Coordination and collaboration between King County and its cities to maximize zero waste impacts and standardize waste and recycling guidelines



# Estimated Impacts from Re+ Actions

Diversion potential – **300k – 400k** tons per year within King County

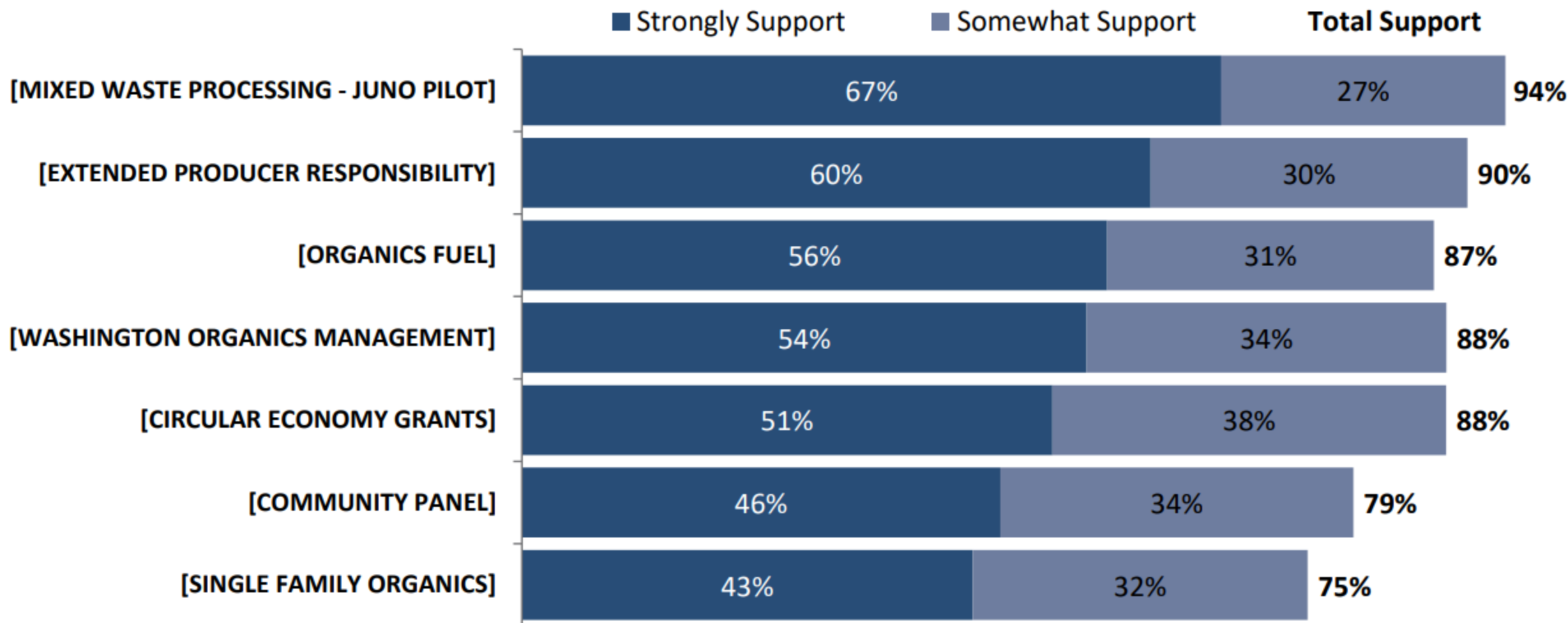
GHG reduction Estimate – **200k – 300k** MTCO<sub>2</sub>e annually

## Other Considerations

- Increased spending to implement actions will increase rates
- Behavior change
- Increase in “green jobs” to process more recyclables

# Program Components

*Mixed waste processing and EPR may be the most supported parts of the Re+ program, but all program components resonate strongly and widely with King County residents.*



Q34-40. Next, I'd like to tell you about some of the potential components that could be part of the RE+ program. For each, please tell me whether you strongly support, somewhat support, somewhat oppose, or strongly oppose that component of the program.

# City Scorecards

- **The Re+ Team is developing City “scorecards” which will be an easy to read document that shows what each city is doing, current contract terms and known actions taken to increase waste diversion**
- **When complete, this already public information will be posted online in a searchable and comparable database**



# What Can Cities Do to Help?

## Sign the Re+ Pledge!



### Re+ Pledge

Climate Change is an urgent challenge, with far-reaching current and future impacts to our environment, public health, and economy. King County's Re+ program aims to divert recoverable material from the landfill which will reduce greenhouse gas emissions and contribute to a circular economy. Based on the 2019 Waste Characterization study up to 70% of what ends up in our landfill could be composted, reused and recycled. Reclaiming these items and repurposing them through recycling or composting will help us reach King County's zero waste goals.

Implementing Re+ will ensure that we are keeping true to our commitments to reduce climate impacts, conserve resources, and create a healthier environment for our communities by keeping valuable materials out of the landfill and in use as long as possible.

Re+ is a roadmap for making that change.

Our approach aims to reinvent the current waste management system to be more resilient, equitable, and cost-effective through strategies necessary to meet our 2030 goal of zero food waste and zero waste of reusable resources.

Key actions include identifying new ways of processing organics and recycling, developing recycling markets for organics, paper and plastic, and a community panel to engage historically underrepresented and adversely impacted community members to help guide future outcomes. These new markets will create local jobs in the private sector, help build the green economy and ensure a just and equitable impact on the members of our community.

Re+ builds on the important work that many of our partners, including cities, the Port of Seattle, businesses, non-profits, community members, and the County are already doing to reduce contributions to climate change.

WHEREAS, climate change is an urgent challenge, with far-reaching current and future impacts to our environment, public health, and economy; and

WHEREAS, greenhouse gas (GHG) emissions generated globally from the production, transport, use, and disposal of goods, foods, and services consumed in King County are a major part of our communities' climate footprint and are more than locally generated GHG emissions; and

WHEREAS, King County and K4C partners are measuring, reporting, and developing new strategies to reduce consumption-related GHG emissions; and

WHEREAS, supporting the Re+ effort will help focus our joint effort and responsibility to make progress toward reducing local GHG emissions by increasing waste prevention and recycling, laying the foundation for developing a circular economy; and

WHEREAS, we recognize that the success of Re+ will require collaboration between King County, local jurisdictions, tribes, businesses, community-based organizations, and others; and

WHEREAS, the Re+ Program is consistent with, consolidates, and accelerates progress towards achieving the approved goals and strategies of the 2020 Strategic Climate Action Plan, the 2019 Comprehensive Solid Waste Management Plan, and the Joint Climate Action Commitment of the King County Cities Climate Collaborative (K4C) in relation to the County's zero-waste goals; and

WHEREAS, we will work with the County to identify ways to enhance our efforts to achieve the vision of Re+ with implementation support from the County including competitive grants, model language for countywide program and policy implementation, and technical support; and

WHEREAS, as a core component of this important work we must engage in ways that are fair, equitable and inclusive for those who are historically under-represented and have been disproportionately impacted by the status quo in our communities.

Now, therefore, we pledge our support for the shared vision that Re+ represents and look forward to collaborating to see this vision become reality.

Signed this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ by \_\_\_\_\_

\_\_\_\_\_  
Name, Title

\_\_\_\_\_  
on behalf of

\_\_\_\_\_  
Jurisdiction



Alternate Formats Available  
206-477-4466 • TTY Relay 711

#### Mission

Reducing single use items  
Reusing everything that can be  
Recycling what's left  
Renewing communities  
Rethinking what's possible

#### Vision

Healthy, safe, and thriving communities  
in a waste-free King County

## Join these Cities:

- Shoreline
- Woodinville
- Clyde Hill
- Snoqualmie
- ... and several others in the process



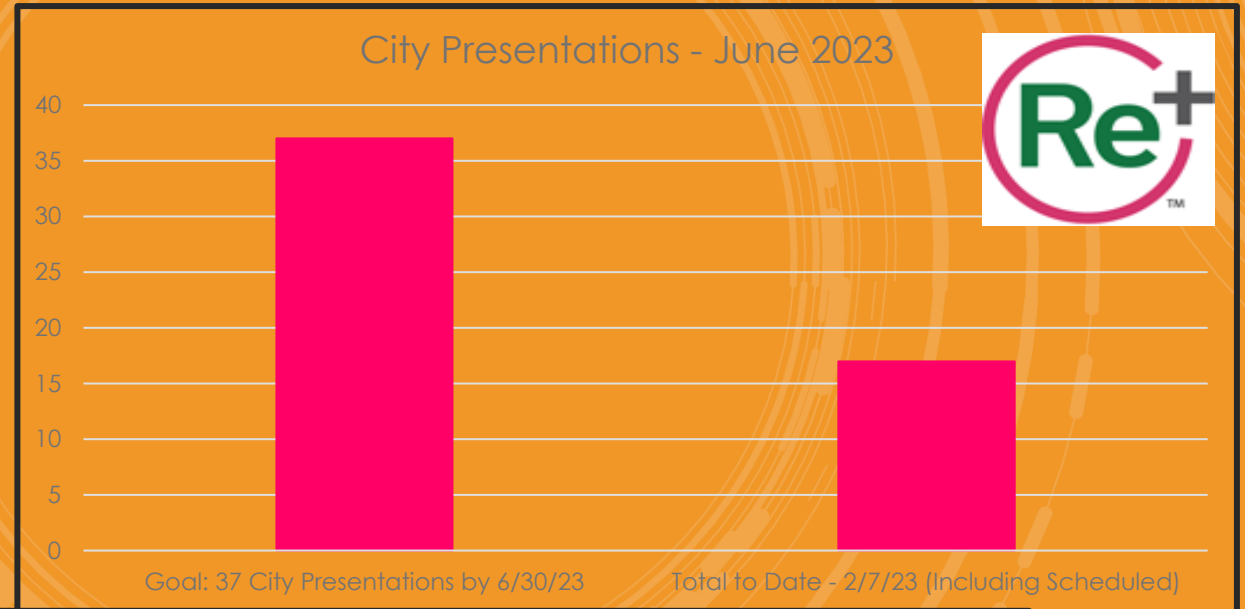
# Re+ City Presentations

## Completed:

- Carnation
- Covington
- Clyde Hill +
- Duvall
- Issaquah
- K4C
- Kent
- Medina
- Mercer Island
- Newcastle
- Renton
- Shoreline +
- Snoqualmie +
- Woodinville +

## Scheduled:

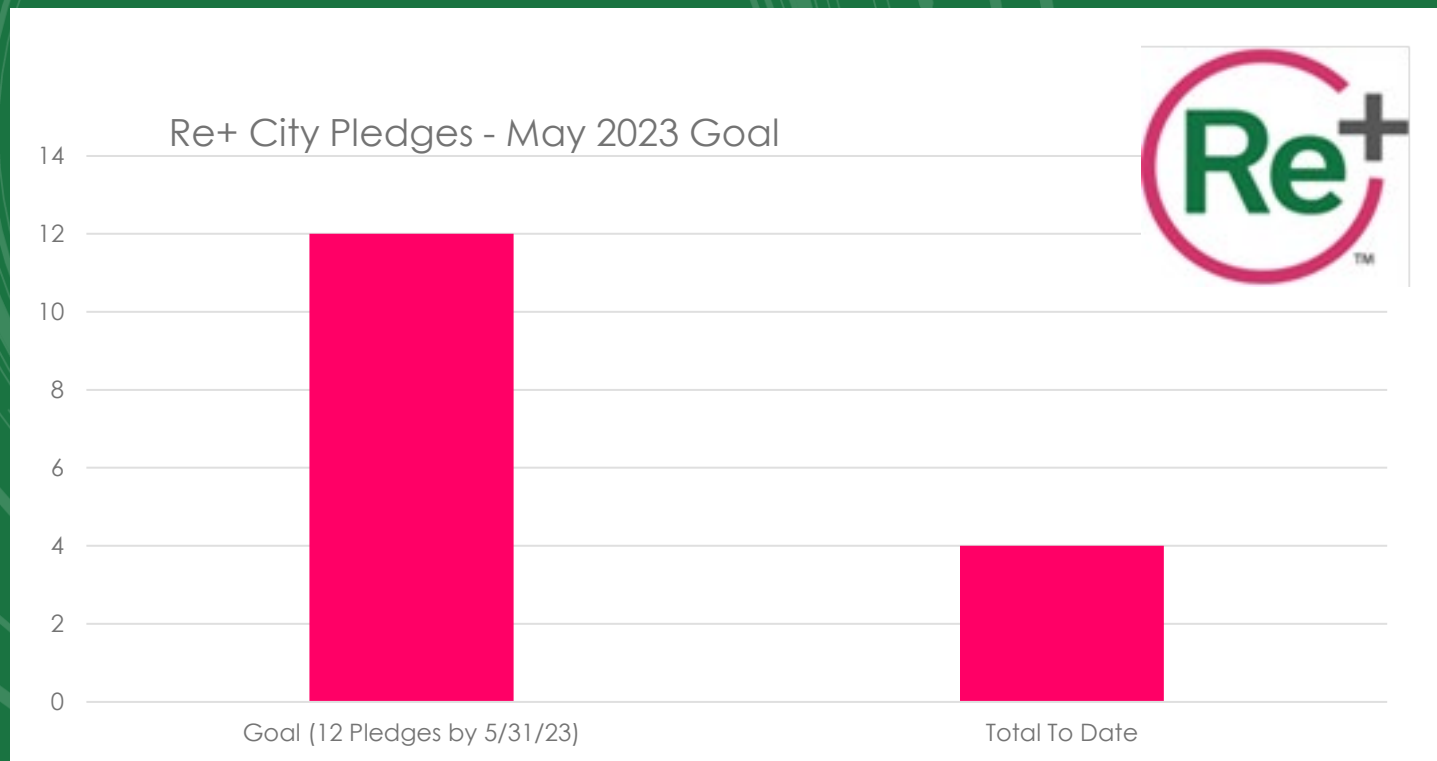
- Covington (Update)
- Kirkland
- Lake Forest Park
- Redmond
- Yarrow Point



## Cities Not Scheduled:

- |                      |                |                 |
|----------------------|----------------|-----------------|
| • Algona             | • Burien       | • Normandy Park |
| • Auburn             | • Des Moines   | • North Bend    |
| • Beaux Arts Village | • Enumclaw     | • Pacific       |
| • Bellevue           | • Federal Way  | • Sammamish     |
| • Black Diamond      | • Kenmore      | • SeaTac        |
| • Bothell            | • Maple Valley | • Skykomish     |

# Pledges Approved



- Shoreline
- Woodinville
- Clyde Hill
- Snoqualmie





# Thank You!

For additional information please contact:

Patty Liu

*King County Solid Waste Division*

*Re+ Program Manager*

[pliu@kingcounty.gov](mailto:pliu@kingcounty.gov)



**Re**

