



THURSTON CLIMATE MITIGATION PLAN

Steering Committee



Meeting #8
January 23, 2020



Today's Agenda

1. Project Updates
2. Multicriteria Analysis Discussion
3. Scenarios Discussion
4. Project Schedule for 2020
5. Jurisdiction Updates on Early & Ongoing Actions
6. Public Comments

Today's Materials

- Agenda
- Meeting #7 Summary
- Draft Communitywide Action List (on tables)
- Top Actions – Three Ways to Sort

Since we last met...



5 Sector Focus Group Meetings



300 Actions → 250 Actions

COMBINED actions that seemed similar or related

DEPRIORITIZED actions that were too vague or had little benefit.

ADDED actions with potential that were not already on the list



All actions scored for all criteria

Criteria – Adopted 10/24/2019

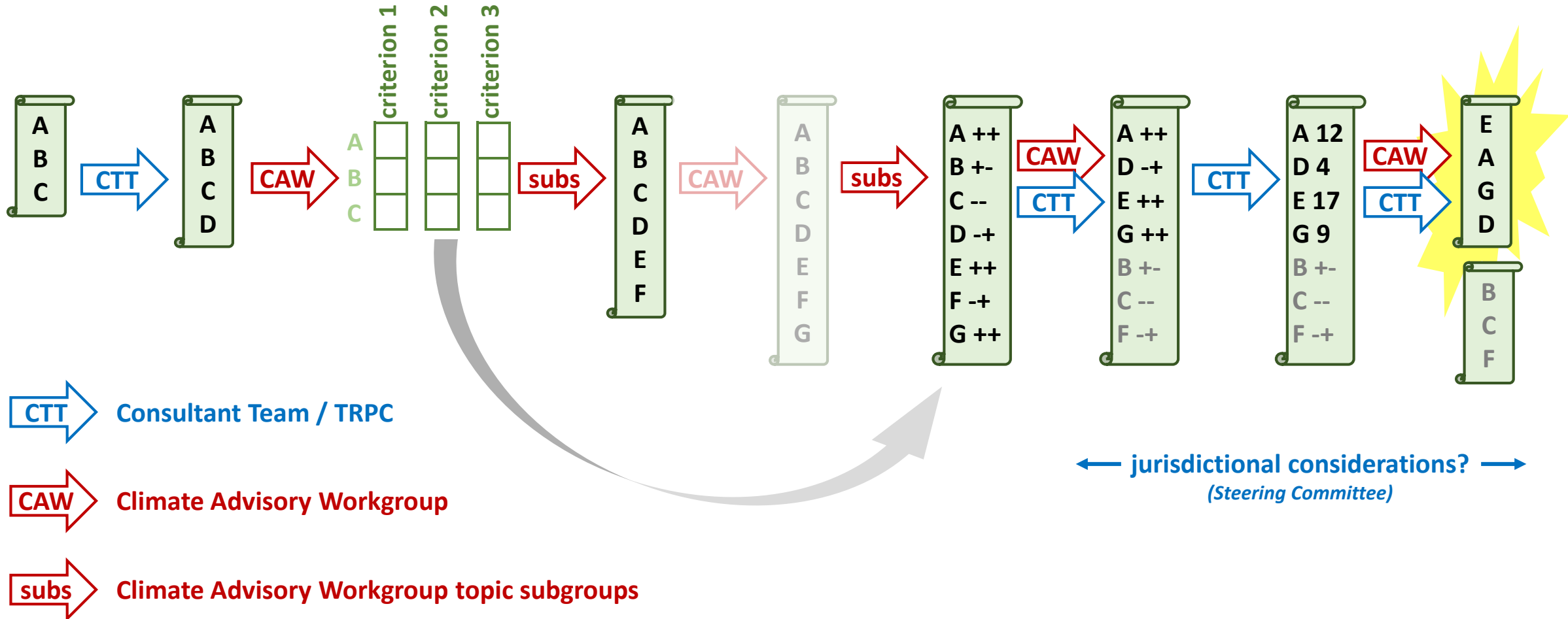
Criteria	Description
GHG reduction potential	The annual quantity of greenhouse gas emissions (GHG) an action will avoid or sequester as of 2030.
Speed of deployment	Minimum time possible between decision to recommend an action, and achievement of the annual GHG reduction potential.
Control	One or more of the four project partners can likely influence the implementing party(ies), or can create the necessary regulatory structure.
Co-benefits <ul style="list-style-type: none"><input type="checkbox"/> Ecosystem health<input type="checkbox"/> Social equity<input type="checkbox"/> Economic benefit<input type="checkbox"/> Other	Supports one or more of the regional goals (aside from #9 – carbon neutrality)

Actions and Criteria

develop criteria & candidate actions

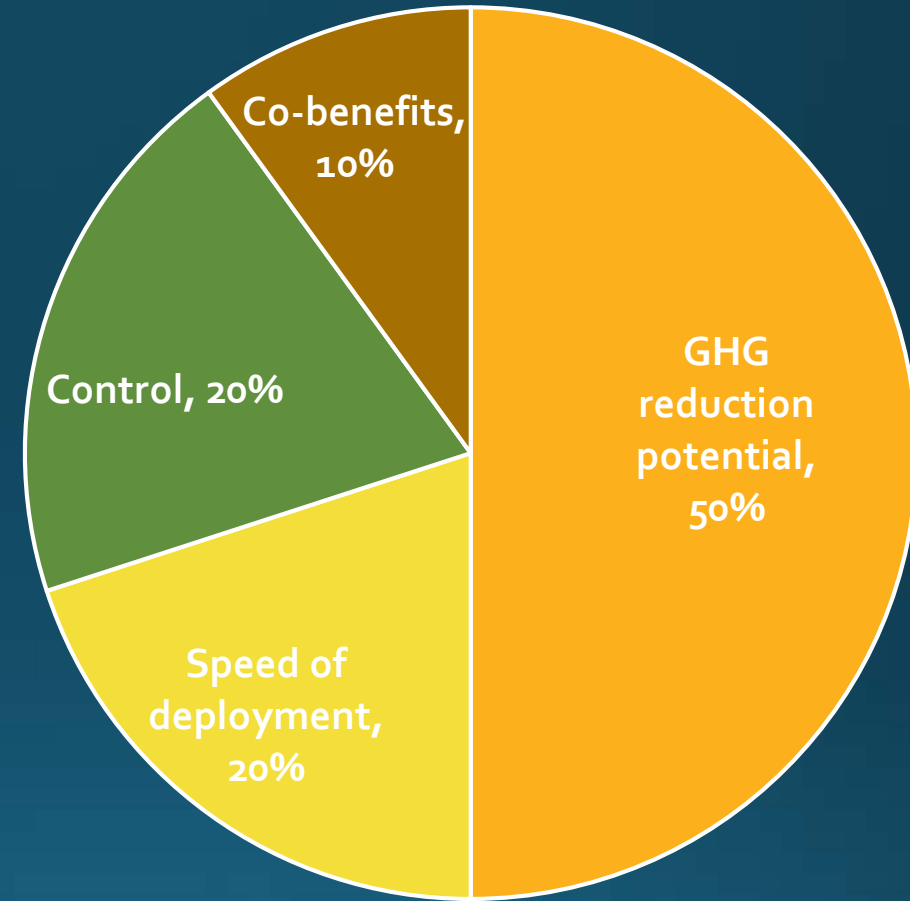
qualitative sieve

evaluation & prioritization



Total Priority Score

Criteria	Weight
GHG reduction potential	0.5 (50% of score)
Speed of deployment	0.2 (20% of score)
Control	0.2 (20% of score)
Co-benefits	0.1 (10% of score)



Total Priority Score - Example

B1.1: Residential energy performance ratings – Require energy performance ratings and disclosures for homes at time of sale, lease, or rent so that owners, tenants, and prospective buyers are informed before making purchasing or rental decisions.

Criteria	Rank	Weight	Weighted Score
GHG reduction potential	4	0.5 (50% of score)	2.0
Speed of deployment	3	0.2 (20% of score)	0.6
	1	0.2 (20% of score)	0.2
Control			
Co-benefits	2	0.1 (10% of score)	0.2
TOTAL		1	3.0

Prioritizing Actions

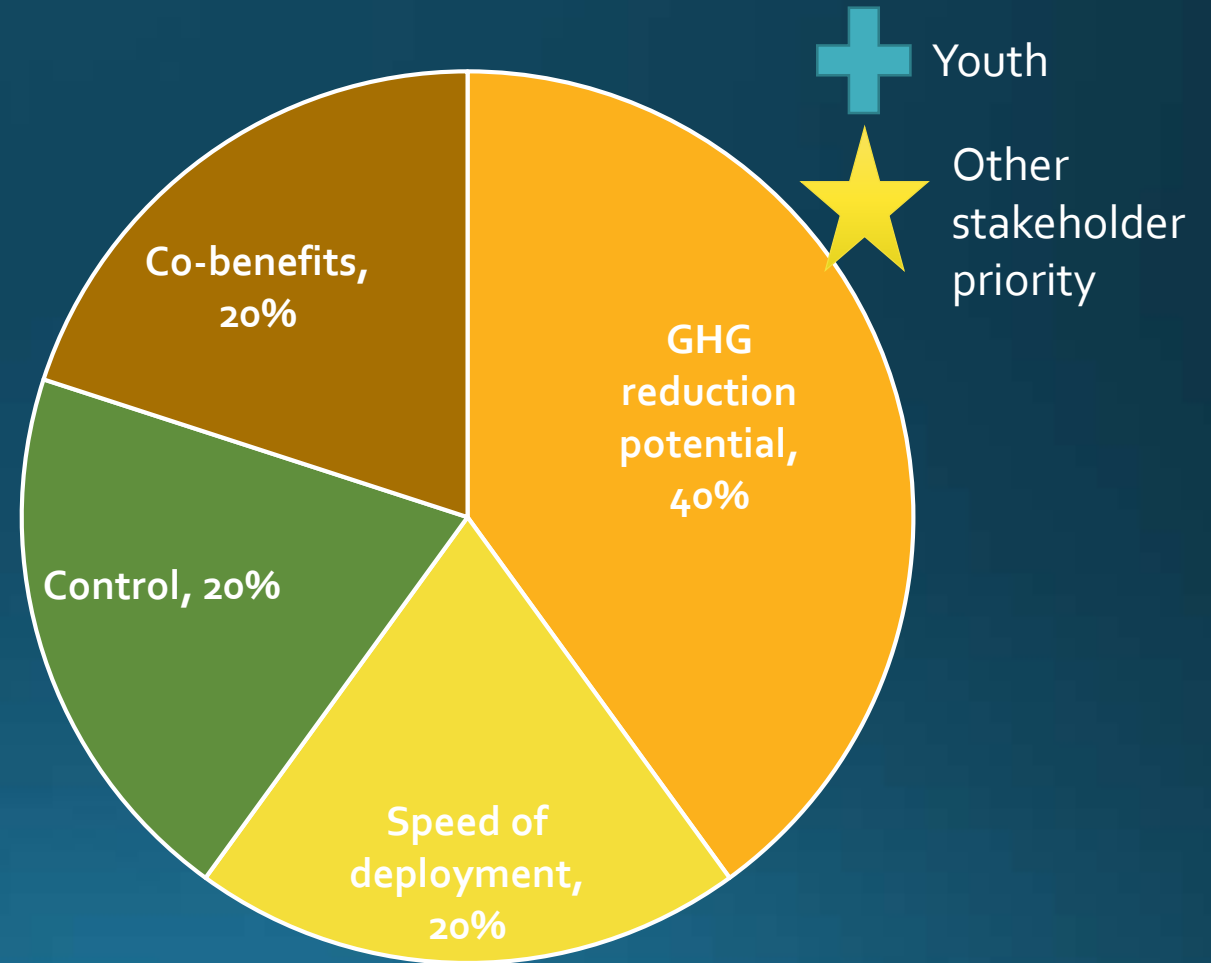
- How should actions be prioritized?
 - By total score?
 - By sector?
 - By strategy?
 - Some other way?



Advisory Workgroup Feedback

1. Adjust Priority Score

- Increase Co-benefits weight
 - Incorporate Youth Priority
 - Maintain priority actions for stakeholders and priority adaptation actions
-
- Maintain some actions for each sector
 - Maintain a special track for sequestration actions



Advisory Workgroup Feedback

2. Use Tiers/Buckets

A. Near-term

- Rank high for Speed and Control

B. Big Impact

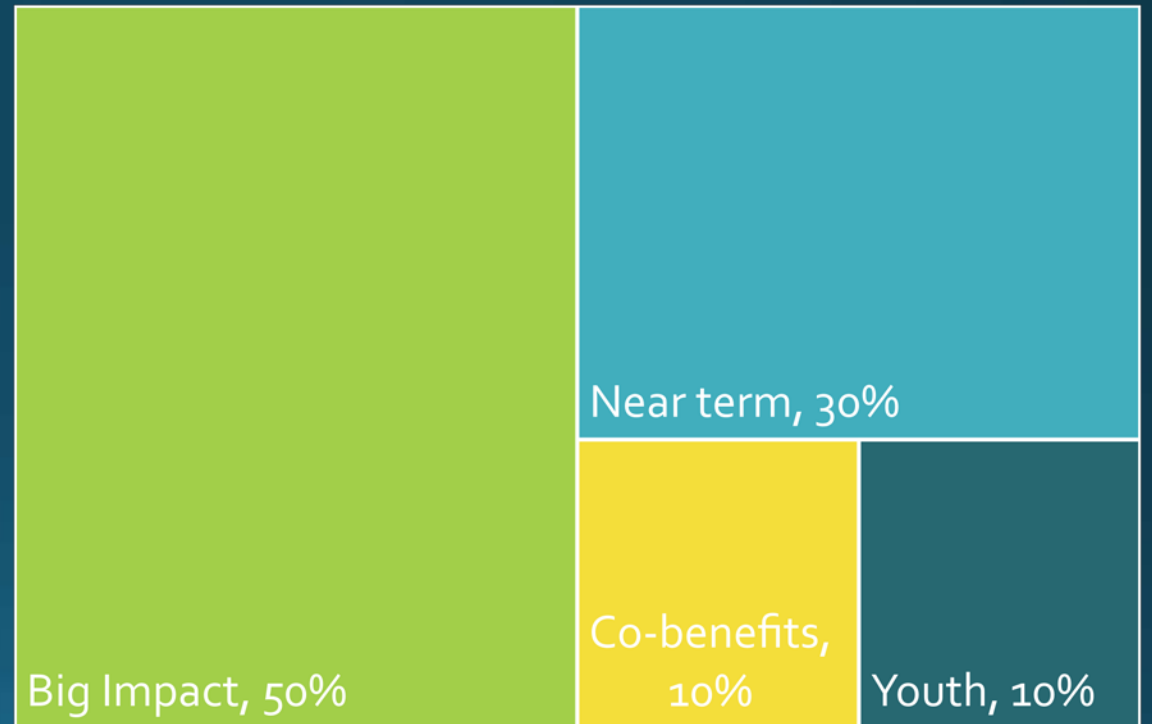
- Rank high for GHG reduction

C. Co-benefits

- Rank highest for co-benefits

D. Youth

- Rank highest for youth



Top Actions – across 3 methods

- G5.5: legislative agenda – **Top Score**
- B2.8: EE performance standard for small commercial
- T4.4: fareless transit system
- B1.6: rental housing EE baseline
- T3.5: EV-ready building code
- T3.11: EV education
- G4.6: social cost of carbon
- B4.5: permitting incentives
- T2.2: congestion mitigation
- B6.4: natural gas ban

Top Actions – across 3 methods

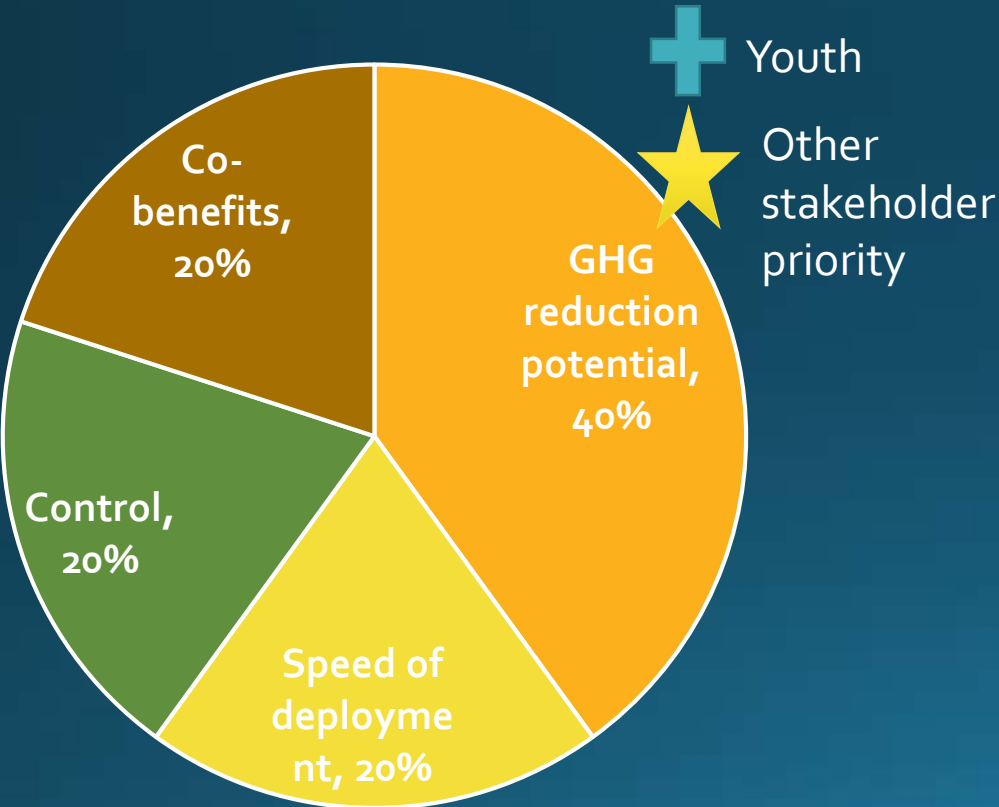
- B3.2: efficiency rebate
- B5.10: group purchasing
- T1.1: coordinate long-term infill planning
- T1.4: 20-minute neighborhoods
- T1.2: middle density housing
- T5.13: telecommuting infrastructure
- A5.1: reforestation & afforestation program

Multicriteria Analysis- Discussion

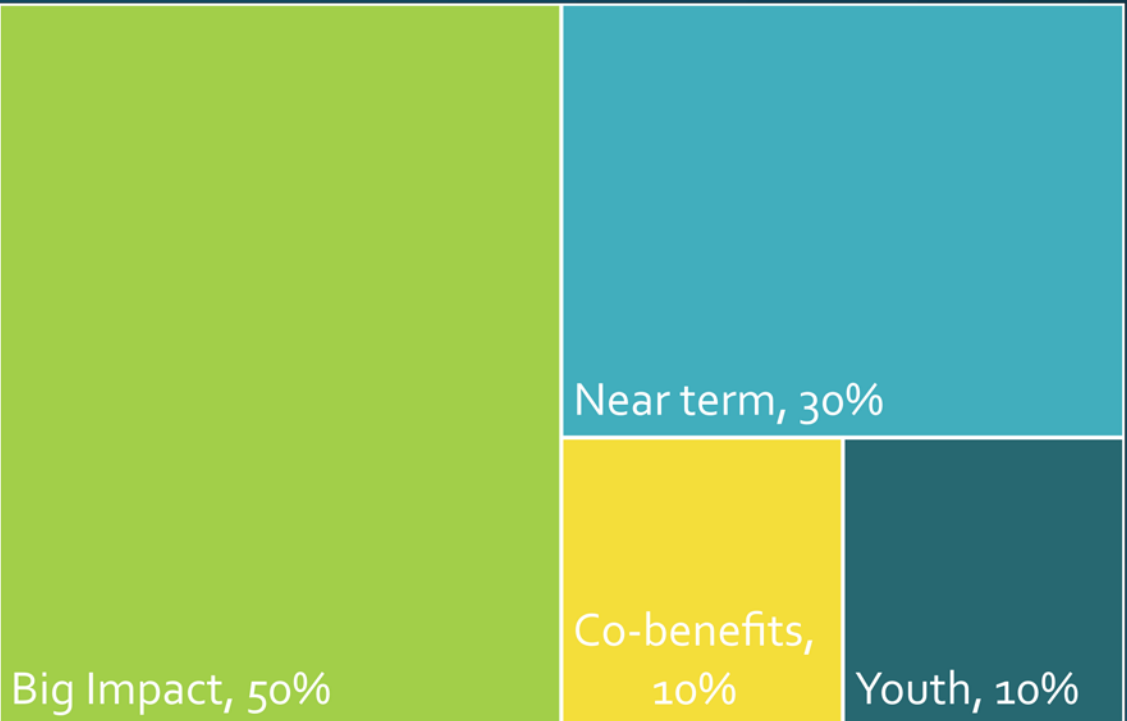
- Review Actions
 - How should criteria be weighted?
 - How should actions be prioritized?

Multicriteria Analysis- Discussion

Option 1: Priority Score

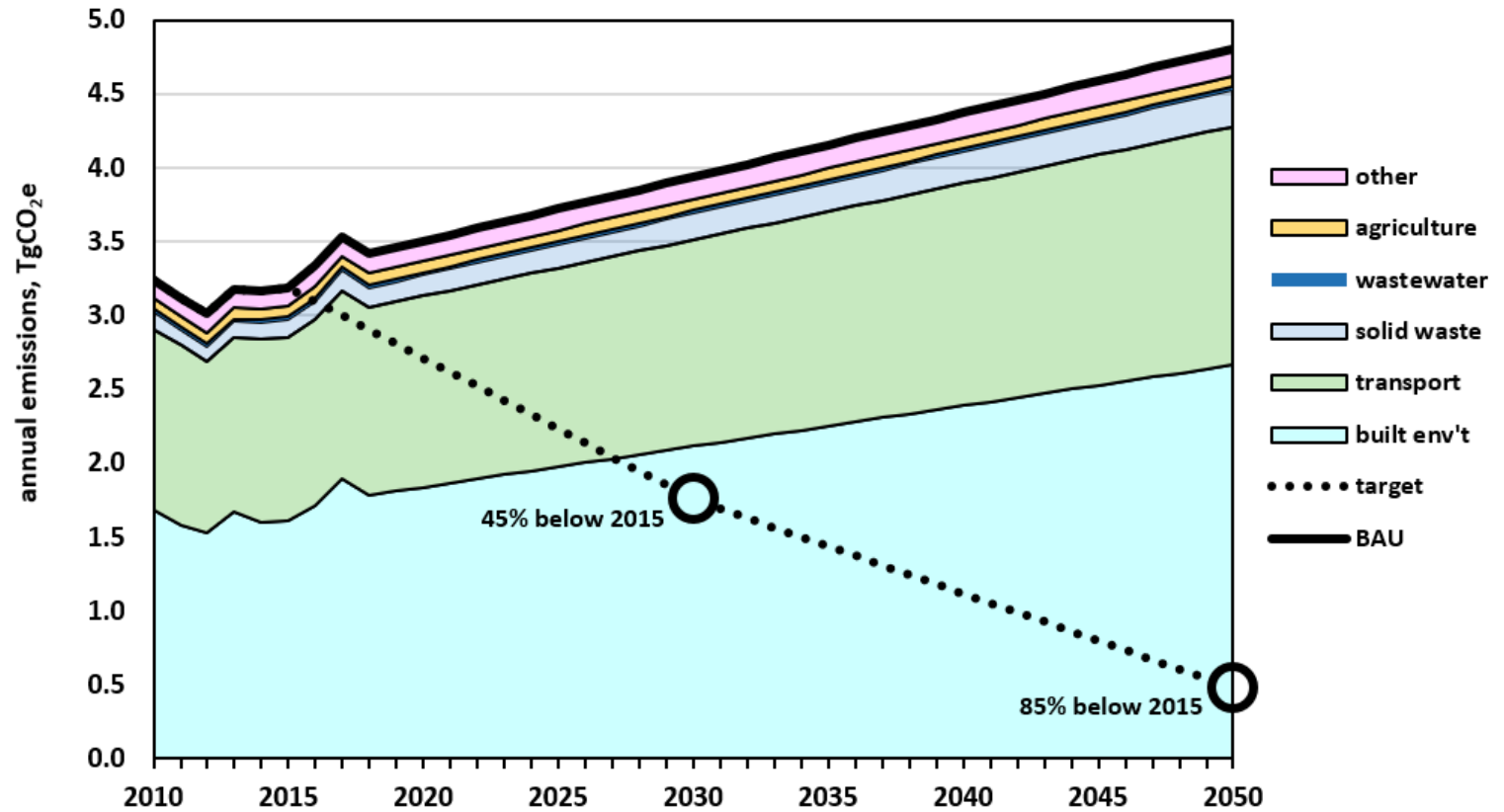


Option 2: Tiers

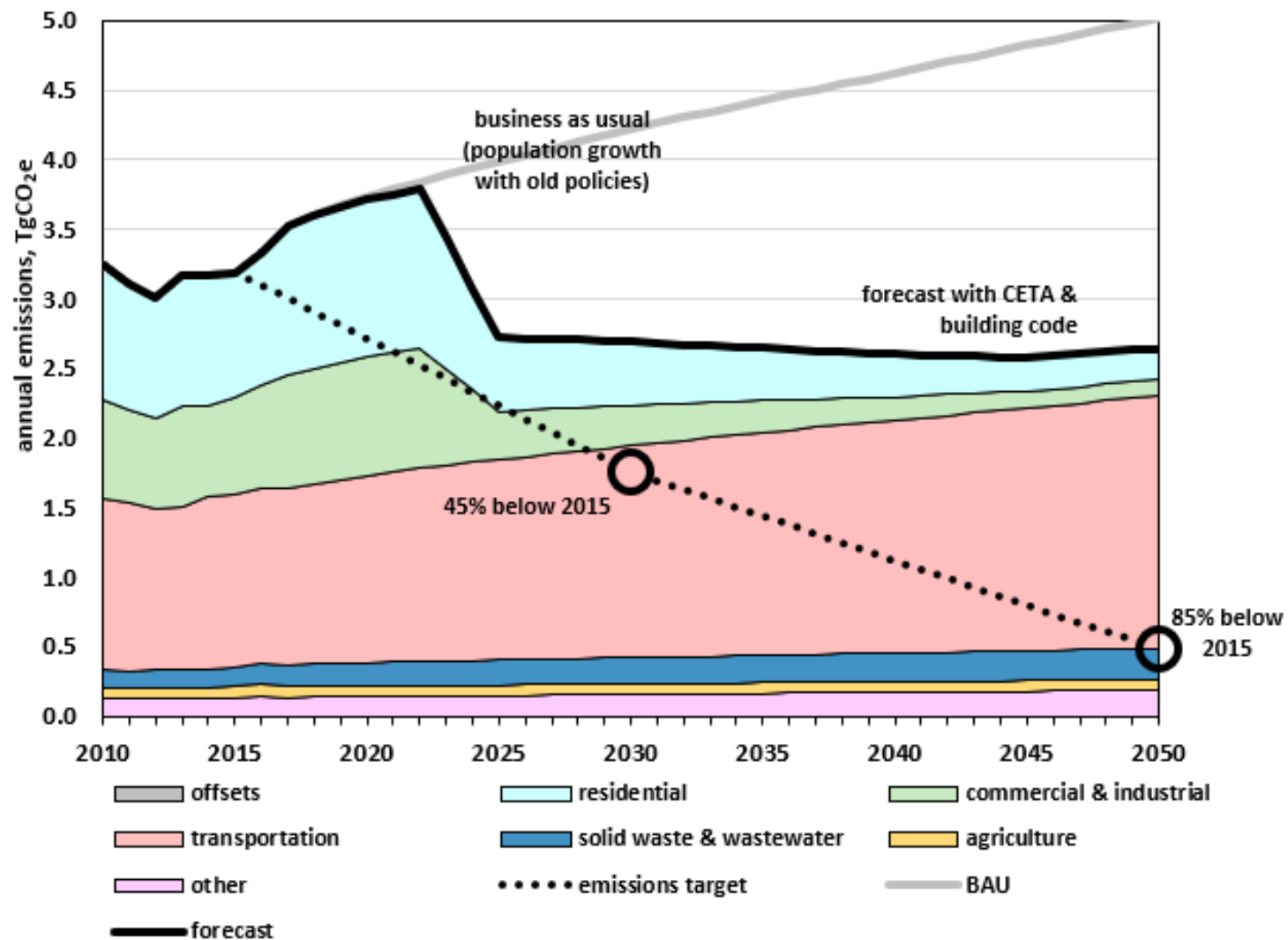


Scenarios

Business As Usual (BAU) Scenario



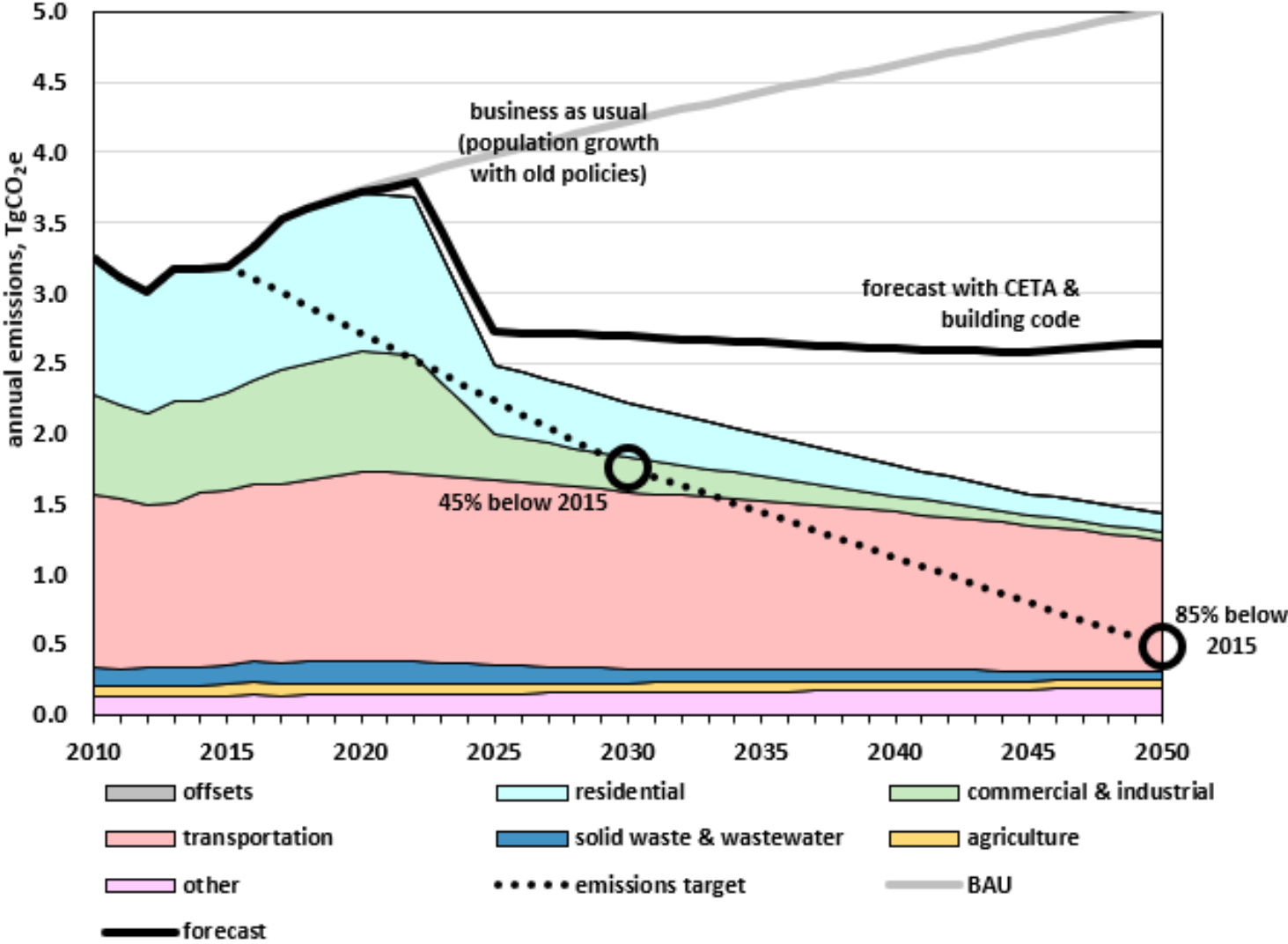
Business As Usual (BAU) Scenario with CETA



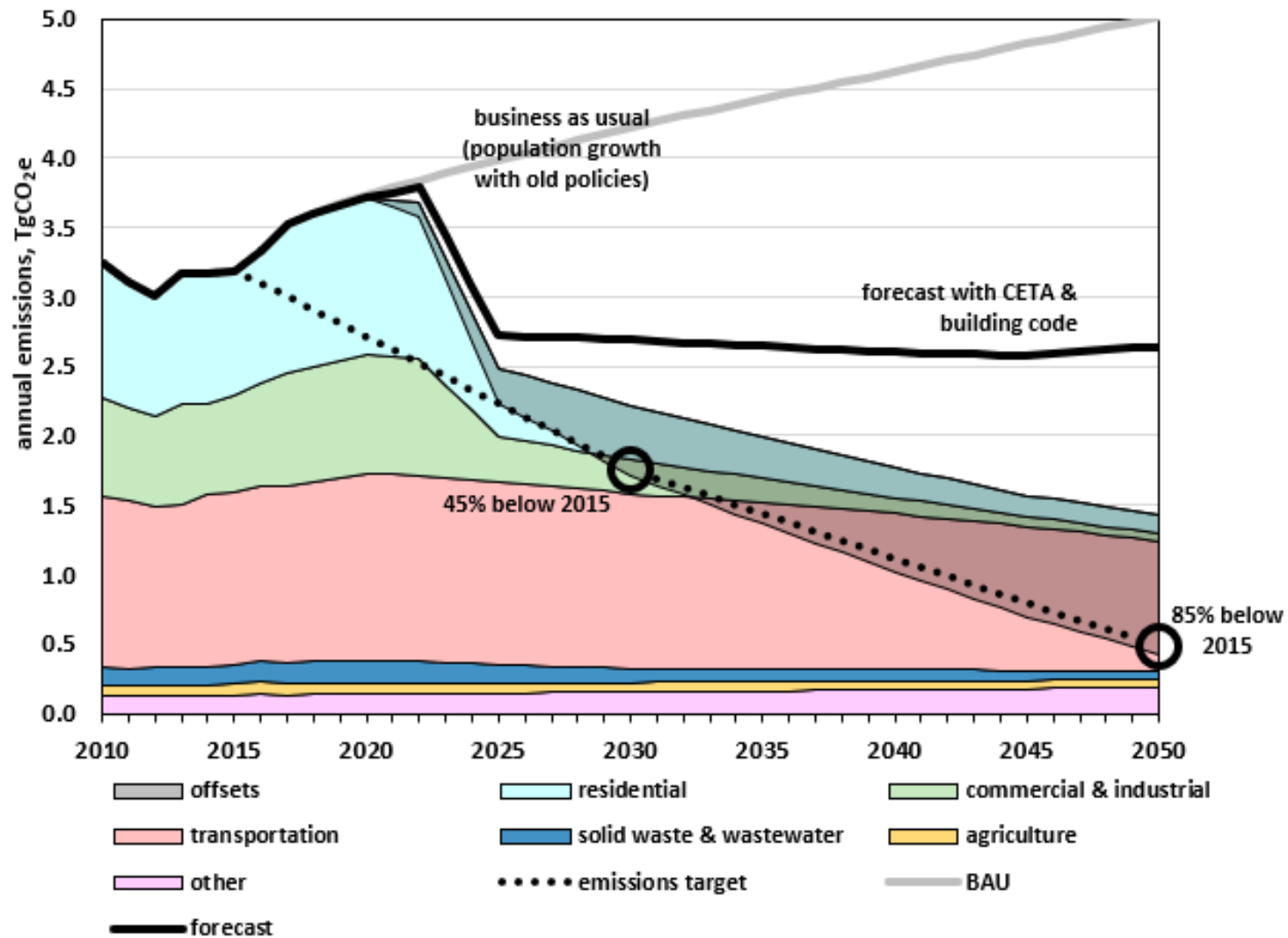
Dashboard for Estimating Reduction Activities

sector	% reduction as of		physical values	GHG		
	2030	2050		2017	2030	2050
residential energy consumption						
electricity			11,570 kWh per household	11,570	11,570	population
natural gas			31.40 mmBtu/household	31	31	population
fuel oil			711 households	711	711	flat
LPG			4,755 households	4,755	4,755	flat
wood			6,231 households	6,231	6,231	flat
commercial energy consumption						
electricity			3,634 kWh per capita	3,634	3,634	population
natural gas			7.82 mmBtu per capita	8	8	population
industrial energy consumption						
electricity			126,265 MWh	126,265	126,265	flat
natural gas			117,972 mmBtu	117,972	117,972	flat
passenger vehicles						
use			1,734 million VMT	1,734	1,734	population
emission intensity			337 gCO ₂ e/mi	337	337	flat
light duty trucks						
use			512 million VMT	512	512	population
emission intensity			480 gCO ₂ e/mi	480	480	flat
medium & heavy duty trucks						
use			237 million VMT	237	237	population
emission intensity			1,432 gCO ₂ e/mi	1,432	1,432	flat
waste & wastewater						
solid waste generation			0.71 ton per capita	1	1	population
landfill emission rate			0.68 MgCO ₂ e/ton	1	1	flat
septic tanks			53,586 sites	53,586	53,586	flat
agriculture						
animal farming			12,544 head	12,544	12,544	flat
fertilization of land			5,755 acres	5,755	5,755	flat
other						
street lighting			10,073 MWh	10,073	10,073	flat
OUTPUTS						
total GHGs	0%	0%	3,530,555 tCO ₂ e	2,690,575	2,642,736	
GHGs re 2015	16%	17%				
GHGs target re 2015	45%	85%	per interlocal agreement			

Results



What about sequestration actions?



	by 2030	by 2050	2050-2030 offset rate diff:	500,000 tCO ₂ e
add offsets (tCO ₂ e/yr):	500,000	1,000,000		
use OFM population projection:	medium		population lookup index: 2	

Scenarios












Sample pathways:

1. Maximum 2030 GHG reductions
2. Focus on one sector (ex. Transportation & land use)
3. Maximum sequestration
4. Maximum personal changes
5. Maximum structural/regulatory changes

Scenarios- Discussion

- What are some pathways that you think we should explore to achieve the target?

Next Steps: Proposed 2020 Schedule

	January	February	March	April	May	June
Steering Committee	Meeting #8 	Meeting #9 			Meeting #10 	Meeting #11 
Advisory Workgroup	Meeting #4 	Meeting #5 			Meeting #6 	
Community Engagement	Interviews	Website Updates	Network check in Survey, Open House 		Public Comment 	Public Comment 

Individual Jurisdictions:
Actions & Implementations

Jurisdiction Updates

Thank You!

Staff Contact

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