



THURSTON CLIMATE MITIGATION PLAN

# Steering Committee



Meeting #10  
May 28, 2020



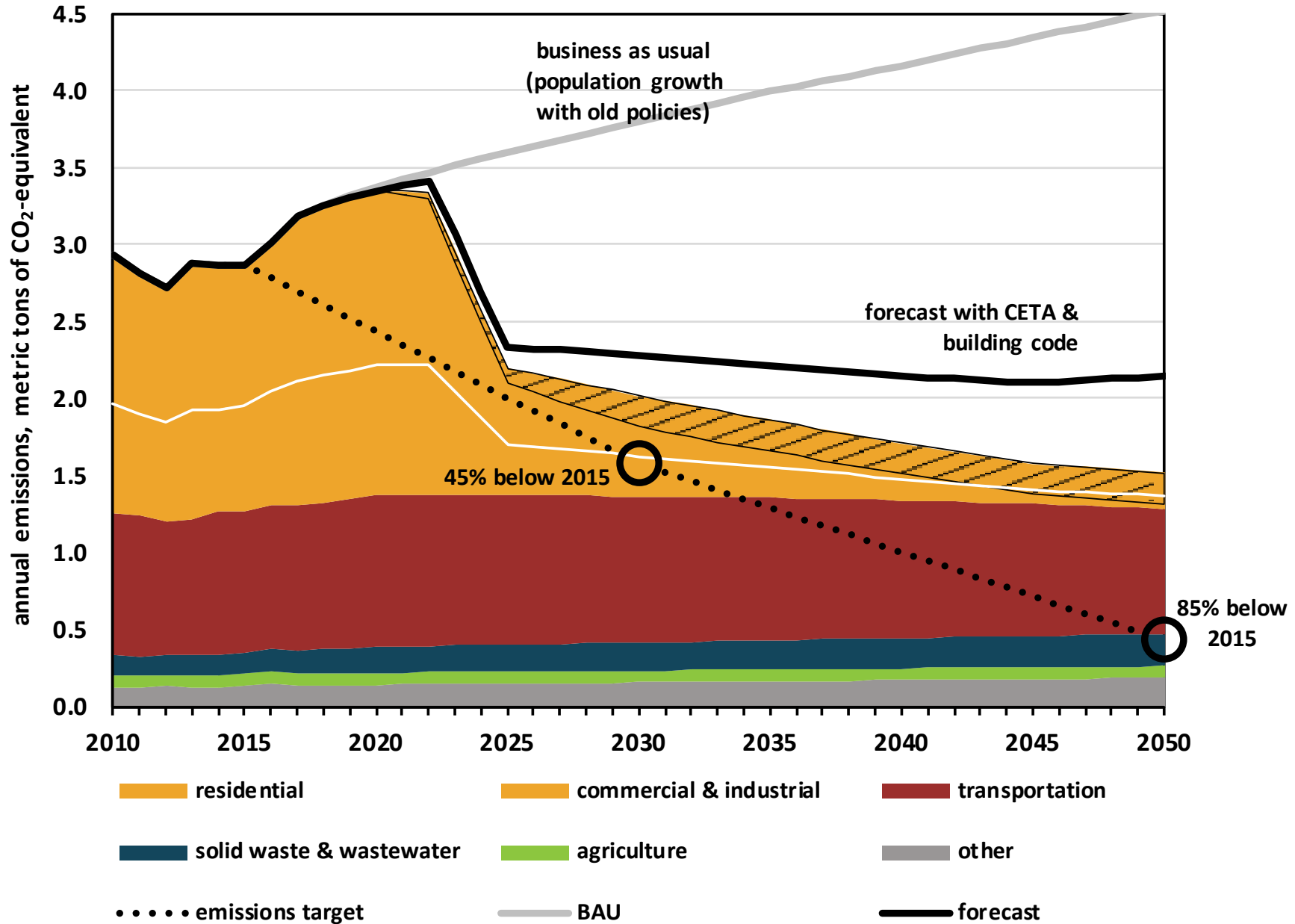
# Today's Agenda

1. Welcome & Introductions
2. Updated Action Assessment
3. Summer Public Outreach
4. Implementation & Monitoring Framework
5. Commerce Grant Proposal
6. Jurisdiction Updates on Early & Ongoing Actions
7. Public Comments

# Today's Materials

- Agenda
- Scenario Analysis Memo
- List of Assessed Actions

# Last meeting



# Last meeting...

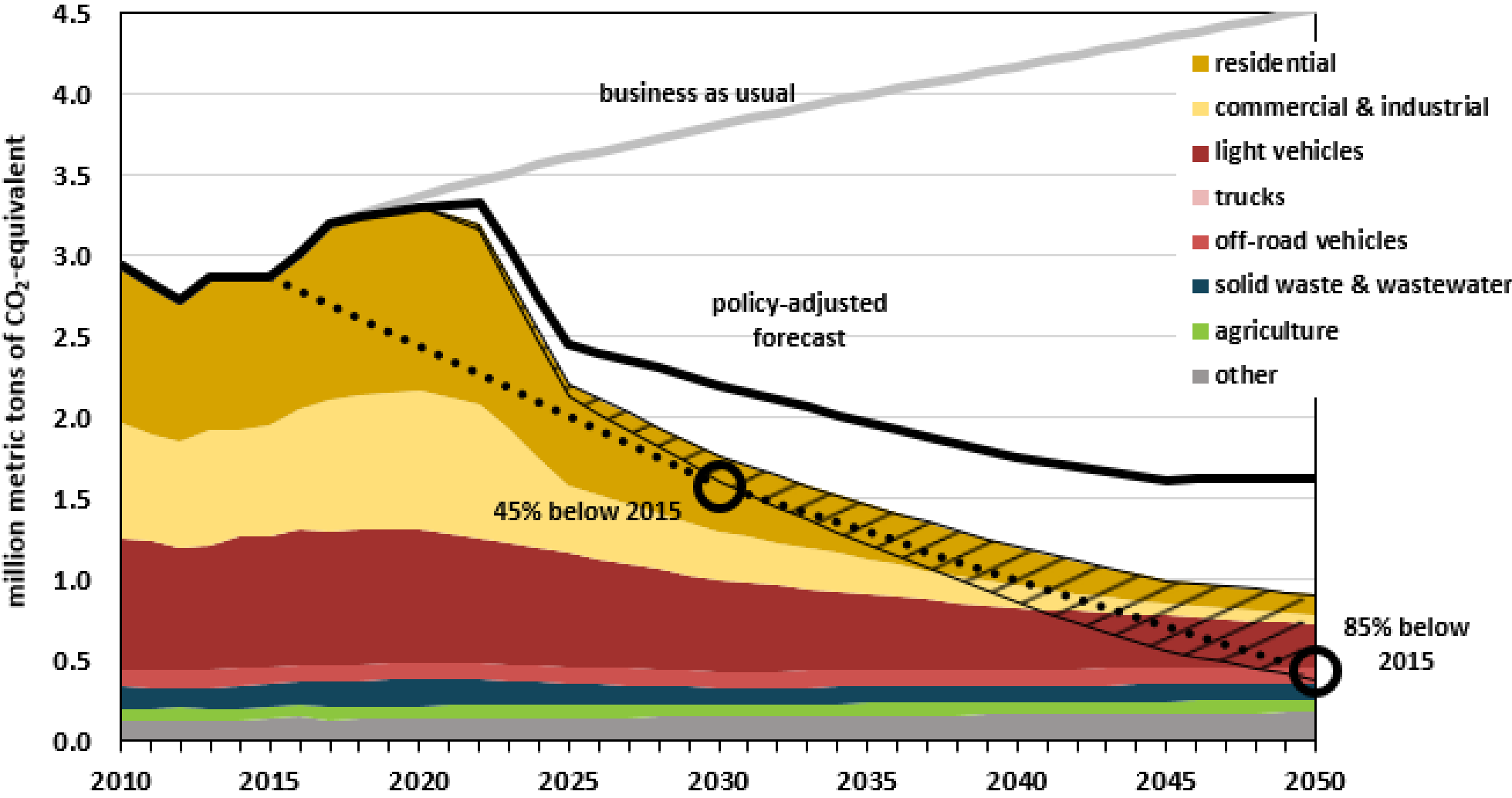
Communitywide Action List - Steering Committee Direction, 4/29/2020

- Move forward with Option B approach
- Include some actions from Option A (municipal actions, others specified by jurisdictions)
- Include sufficient actions to achieve targets

# Updated Assessed Action List

- Includes all actions on Options A and B lists
- All actions that scored 3.5+ in MCA analysis (Option A approach)
- Includes top-ranking actions in key strategies (Option B approach)
  - Carbon sequestration
  - Fuel switching
  - Water
  - Solid waste
  - Agriculture
  - Education & outreach
  - Data and monitoring
- Jurisdictions have NOT committed to implementing these actions.

Updated  
5/21



emissions results, million tCO <sub>2</sub> e			
	2015	2030	2050
<b>BAU</b>	<b>2.87</b>	<b>3.81</b>	<b>4.53</b>
<b>policy-adjusted forecast</b>	<b>2.87</b>	<b>2.20</b>	<b>1.62</b>
<b>scenario gross emissions</b>	<b>2.87</b>	<b>1.75</b>	<b>0.89</b>
<b>scenario net emissions</b>	<b>2.87</b>	<b>1.59</b>	<b>0.36</b>
<b>targets</b>		<b>1.58</b>	<b>0.43</b>

## Scenario Analysis

# Changes to Scenario Analysis Tool

- subsector resolution in graphical output
- tabular output on dashboard
- user can affect WWTPs with policy
- septic systems grow with population
- assume TRPC population forecast
- allow gas to partially fill in CETA coal plant retirements
- Thurston County land area excludes freshwater bodies

# Changes to Default Scenario

- 71 Assessed Actions replace 56 “Option B” actions
- aggressive implementation replaces full implementation
- add consultant’s actions to reach targets
- increment afforestation to reach targets
- expand agriculture discussion from no-till to regenerative

strategy metric	2030		2050		units
	initial	revised	initial	revised	
<b>residential energy consumption</b>					
electricity	15%	20%	25%	30%	kWh/household
natural gas	15%	20%	40%	50%	mmBtu/household
fuel oil	5%	10%	10%	20%	households
LPG	5%	10%	10%	20%	households
wood	2%	10%	5%	20%	households
<b>commercial energy consumption</b>					
electricity	10%	20%	20%	30%	kWh/capita
natural gas	10%	20%	30%	50%	mmBtu/capita
<b>industrial energy consumption</b>					
electricity	2%	2%	5%	5%	MWh
natural gas		10%		30%	mmBtu
<b>passenger vehicles</b>					
use	10%	5%	25%	20%	million VMT
emission intensity	5%	20%	30%	60%	gCO2e/mi
<b>light duty trucks</b>					
use	5%	10%	10%	15%	million VMT
emission intensity	5%	10%	20%	40%	gCO2e/mi
<b>waste &amp; wastewater</b>					
solid waste generation	3%	10%	7%	30%	ton/capita
landfill emission rate		50%		50%	tCO2e/ton
WWTP		20%		20%	
<b>agriculture</b>					
animal farming	15%		30%		head
fertilization of land		20%		50%	acres
<b>other</b>					
land clearing		100%		100%	acre

# Scenario Analysis: Takeaways

- State Actions play a large role
- Clean the electric grid (CETA), shift to electric
- Land use and building code changes will take a longer time to show results
- Heavy investment in sequestration

# Scenario Analysis: Takeaways

- State Actions play a large role
- Policy-Adjusted Forecast
  - Clean Energy Transformation Act (CETA)
  - State Building code updates
  - WA Low Emission Vehicles Standard
  - Other?
    - Zero-Emission Vehicle Standard
    - Refrigerant Standards – HFC Rule

2030: -73%

2050: -70%



# Scenario Analysis: Takeaways

- State Actions play a large role.
- Clean the electric grid (CETA), shift to electric
  - Support shift to electric vehicles

EVs make up **<1%** of vehicles  
in Thurston County now

- Support shift away from natural gas

**32%** of Thurston County households  
rely on natural gas as their primary home  
heating fuel

# Scenario Analysis: Takeaways

- State Actions play a large role
- Clean the electric grid (CETA), shift to electric
- Land use and building code changes will take a longer time to show results



89% of the housing units that will exist in 2030 exist today

67% of the housing units that will exist in 2050 exist today

# Scenario Analysis: Takeaways

- State Actions play a large role
- Clean the electric grid (CETA), shift to electric
- Land use and building code changes will take a longer time to show results

- **Heavy investment in sequestration**

- By 2030
  - ~7,000 acres agricultural land
  - ~40,000 acres reforested land



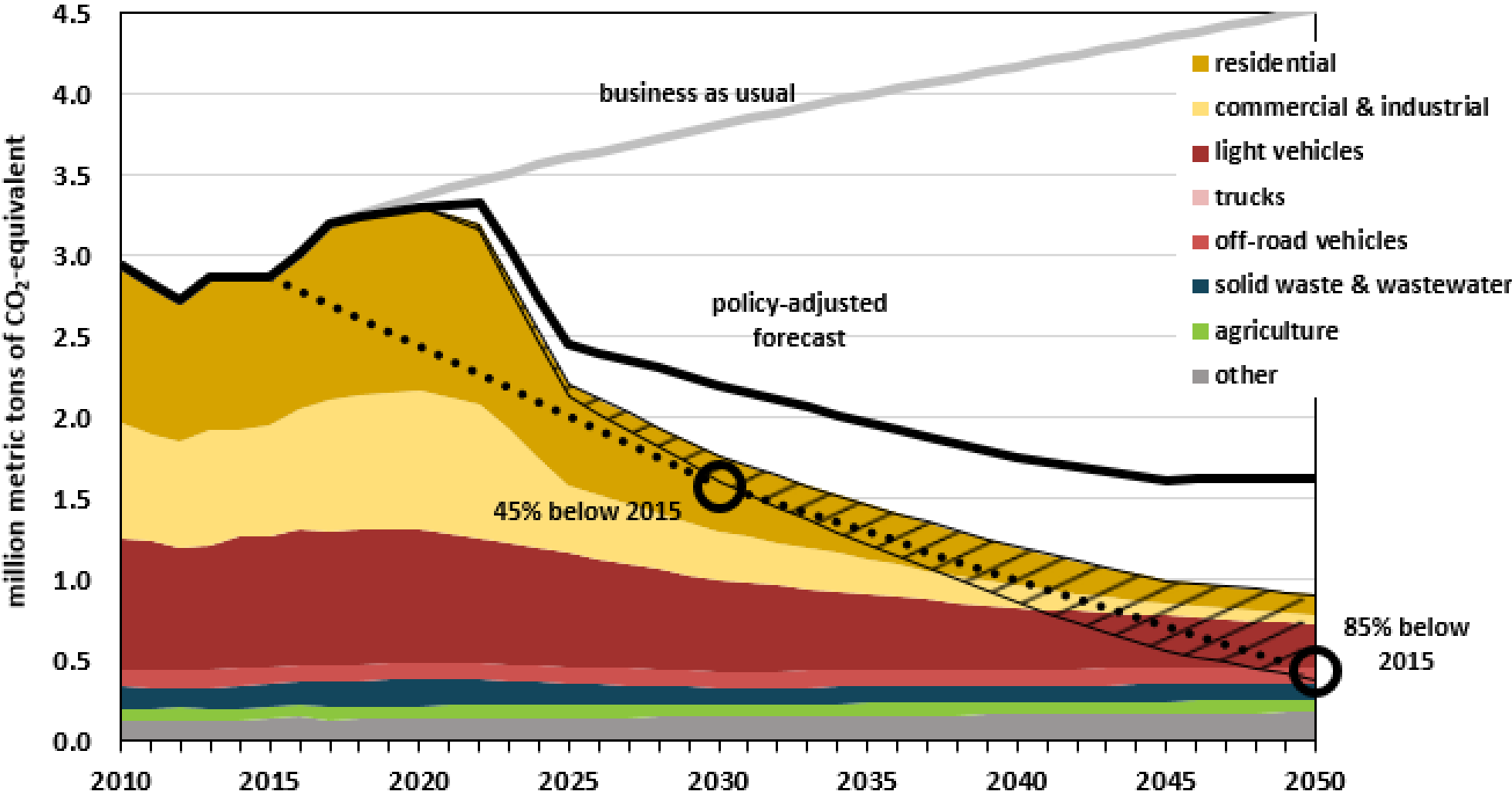
2030: -7%

2050: -13%

# Scenario Analysis: Takeaways

- State Actions play a large role
- Clean the electric grid (CETA), shift to electric
- Land use and building code changes will take a longer time to show results
- Heavy investment in sequestration










Updated  
5/21



# ~~Spring~~ Summer Public Outreach

- Proposal
  - Delay public engagement on draft plan until July/August
  - Plan would include more detail on implementation
- Would still plan to have: Online-only open house
  - Survey component
  - “Office Hours” set for interactions

# Next Steps: Proposed 2020 Schedule

	April	May	June	July	August	September	October
Steering Committee	Meeting #9 	Meeting #10 	Meeting #11 		Meeting #12 	Meeting #13? 	
Advisory Workgroup			Meeting #6 		Joint Meeting? 		
Community Engagement	Website Updates	Website Updates	Status Update Network check in 	Online Open House, Public Comment 		Final Plan Posted	

Individual Jurisdictions:  
Adoption & Implementations

# Implementation Plans

- Mechanism

- Existing program (expansion)
- New program
- Regulatory/code change
- Capital investment
- Support of a 3<sup>rd</sup> Party

- Details

- Lead
- Partners
- Timeframe
- Funding/Resources needed

# Monitoring Framework

- Actions Implemented?      Yes    No



## Strategy

Reduce energy use in residential buildings.



## Indicator

Residential energy consumption.



## Target

2030: 457,000 tCO<sub>2</sub>e  
2050: 125,000 tCO<sub>2</sub>e

# Monitoring Framework

What are your expectations for monitoring the TCMP?

- Questions for discussion:
  - Will indicators be tracked regionally, or by jurisdiction?
  - Who will track indicators?
  - How often will indicator status be updated?
  - How will indicators be reported, and to whom?
  - How often will the TCMP be updated?

# Commerce Grant Proposal

- Climate Change Planning Grant
  - Applications due June 19
  - Award 5 grants of \$20,000
  - Activities complete by June 30, 2020
  - Tied to Comprehensive Plan updates
- TCMP Proposal
  - Joint application, with one jurisdiction as lead
  - Supplement existing plan
    - Cost analysis
    - Equity impact analysis
    - Support for outreach
  - Develop goal/policy language for adoption into Comprehensive Plans

# Jurisdiction Updates

Public Comment

# Thank You!

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