



THURSTON CLIMATE MITIGATION PLAN

Process Overview

June 11, 2019

Adaptation addresses the impacts

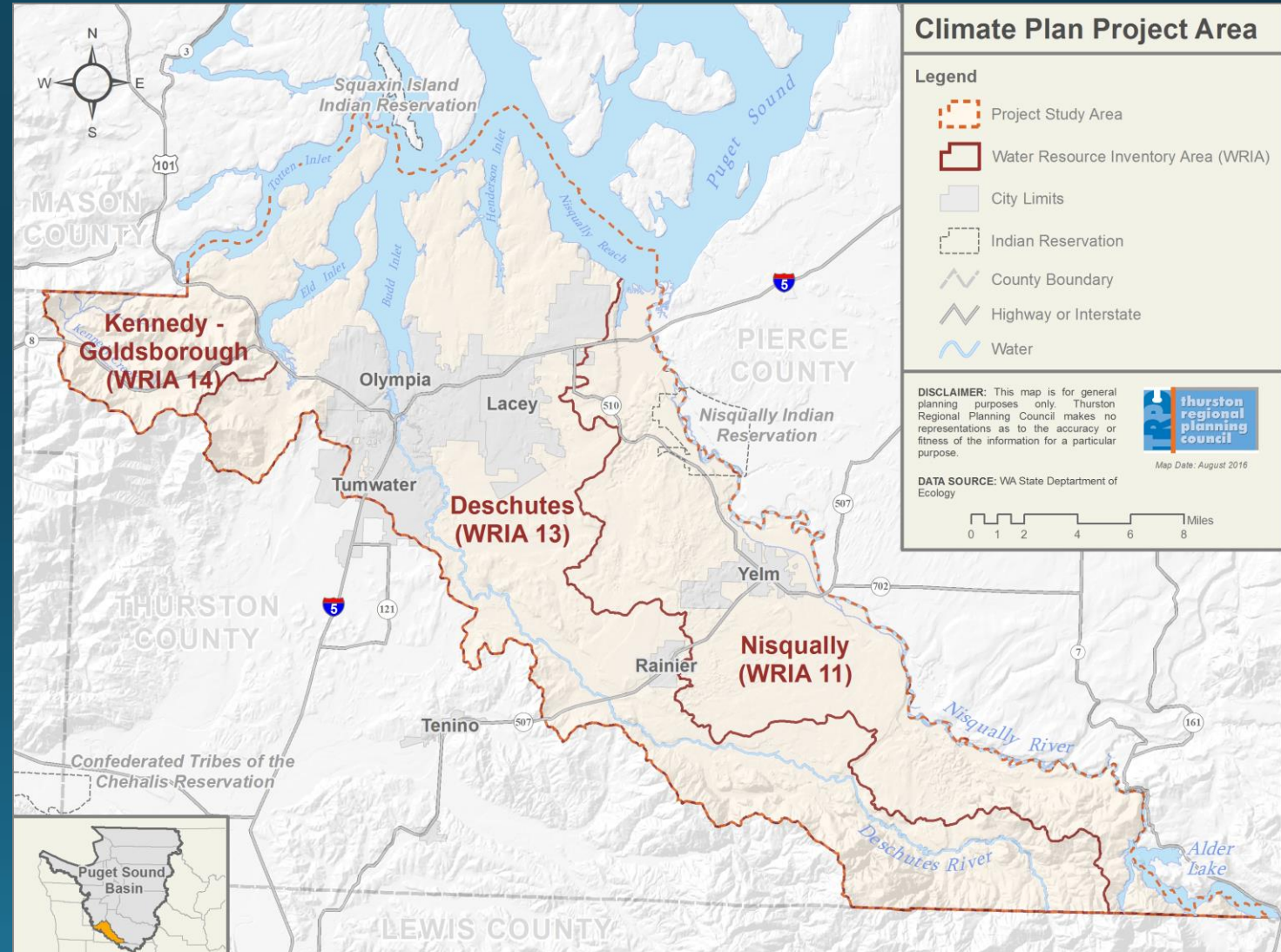
Adjusting to actual or expected future climate and changing conditions

- Actions that include:
 - Avoiding Hazards
 - Reducing vulnerability
 - Increasing community strength and resilience

How much we need to adapt will be determined by how our emissions continue and how exactly our climate responds to those emissions

Overview

- **Funds:**
 - \$250K grant from U.S. EPA (2015)
- **Purpose:**
 - Develop plan to help the region prepare for and cope with climate impacts (“adaptation”)
- **Project Area:**
 - South Puget Sound watersheds in Thurston County, WA
- **Policies:**
 - Recommends **91 actions** for local municipalities, tribes, businesses, neighborhoods, etc.
 - Actions could be taken throughout South Puget Sound ... and beyond

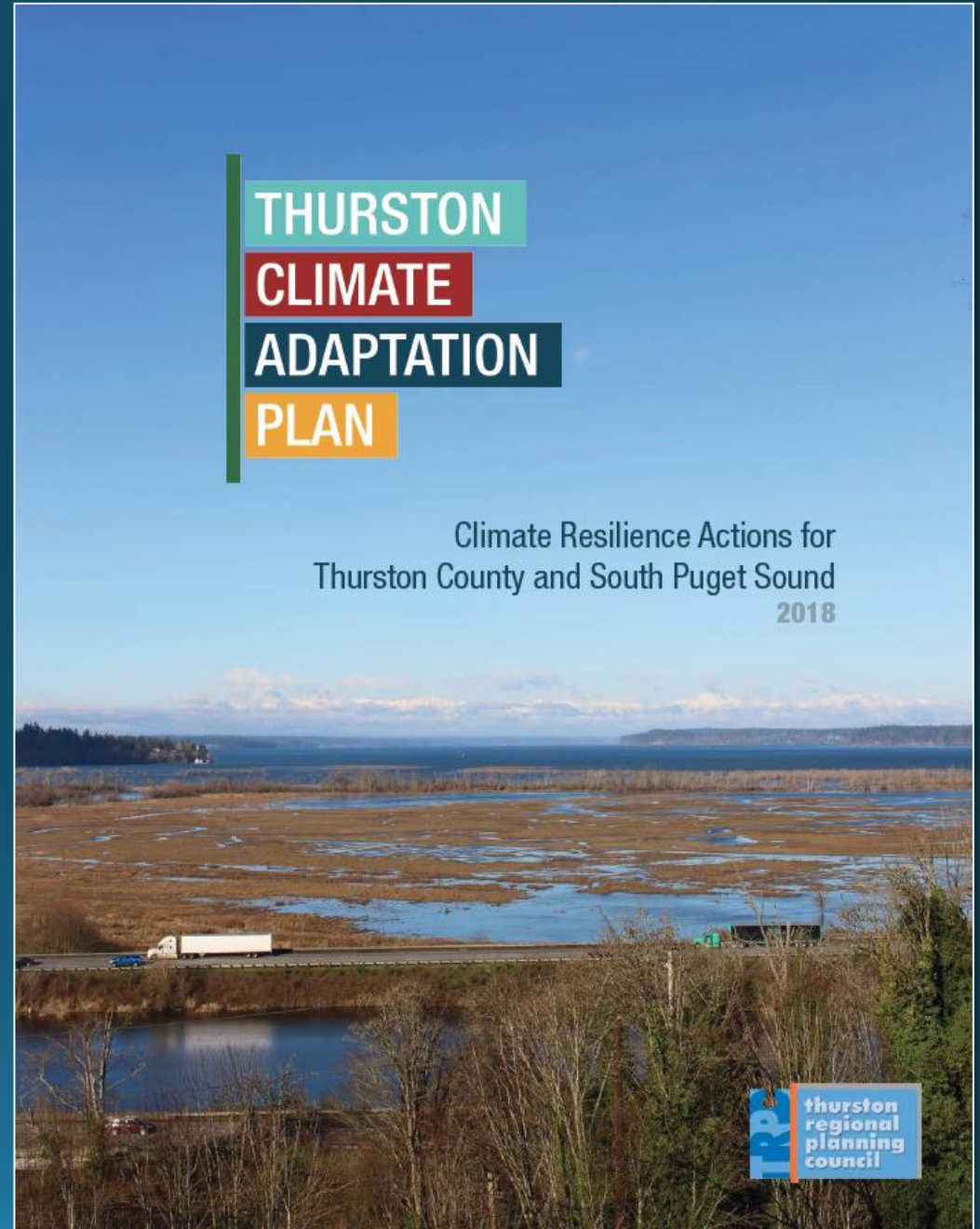


Plan Actions

- Selected **25 priority actions** based on risk
- Identified a lead, partners, and timeframe

Examples:

- **Action G-01:** Direct government staff members to develop their technical expertise and skills to prepare for and respond to climate change impacts.
- **Action T-01:** Provide additional utility incentives to support energy efficiency and renewable energy investments in buildings.
- **Action T-05:** Map transportation infrastructure that is vulnerable to repeated floods and/or landslides, and designate alternative travel routes for critical transportation corridors when roads must be closed because of natural hazards.



Mitigation addresses the cause

Mitigating the effects of climate change by reducing human output of heat trapping gases into the atmosphere

- Actions that include:
 - Reducing the sources of these gases
 - Reducing demand
 - Enhancing the sinks or sequestration that store these gases

The goal is to avoid significant human disruptions to the climate system to stabilize greenhouse gas levels in a timeframe sufficient to allow ecosystems to adapt naturally to climate change

THURSTON

CLIMATE

MITIGATION

PLAN

Overview of Phases 1&2

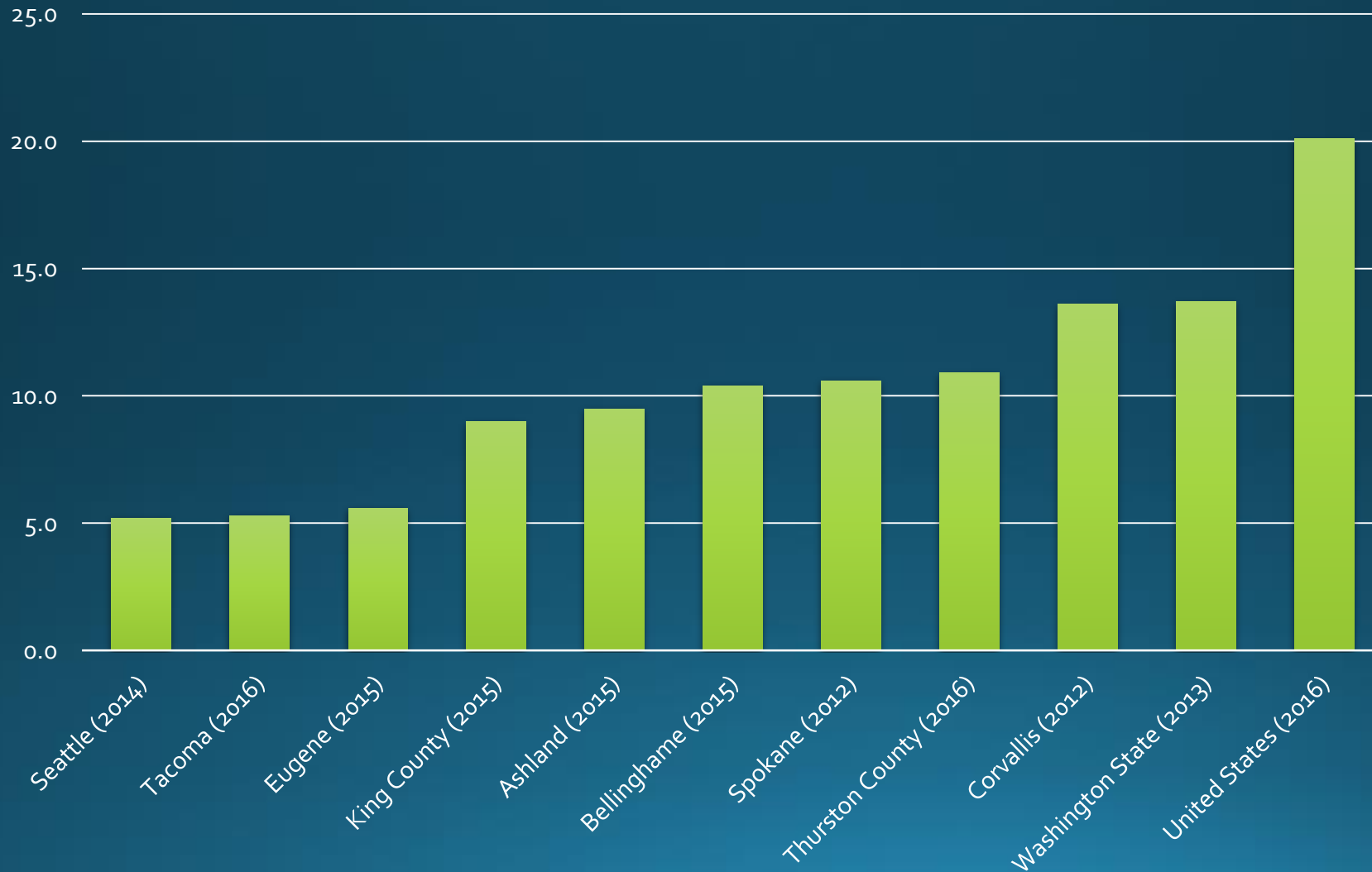
Phase 1 Overview

- Thurston County, Olympia, Lacey, Tumwater, and TRPC agreed in April '18 to complete Phase 1 of a plan to reduce regional emissions that contribute to global climate change.
- **Phase 1 of entailed:**
 - Assessing each jurisdiction's climate goal or target.
 - Adopting a common emissions baseline and targets.
 - Assessing actions each jurisdiction has adopted or implemented.
 - Approving an interlocal agreement and scope of work for Phase 2: Develop a Thurston Climate Mitigation Plan.



Comparison of Per Capita Emissions for Northwest Communities

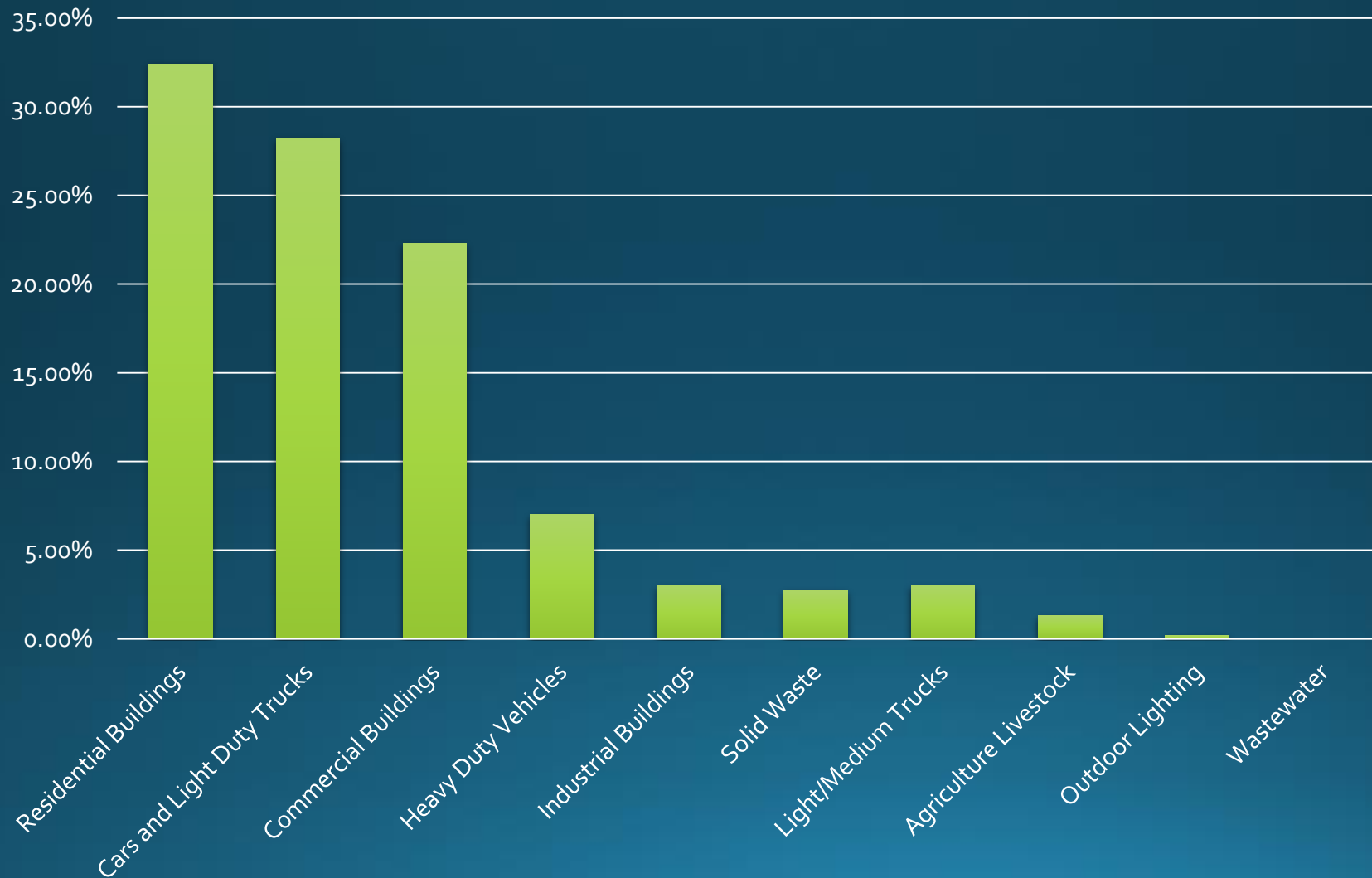
From Thurston Climate Action Team, August 2018



Source of Emissions (2016)

for Thurston County, Lacey, Olympia, & Tumwater

From Thurston Climate Action Team, August 2018



Adopted Emissions Targets

Thurston County, Lacey, Olympia & Tumwater

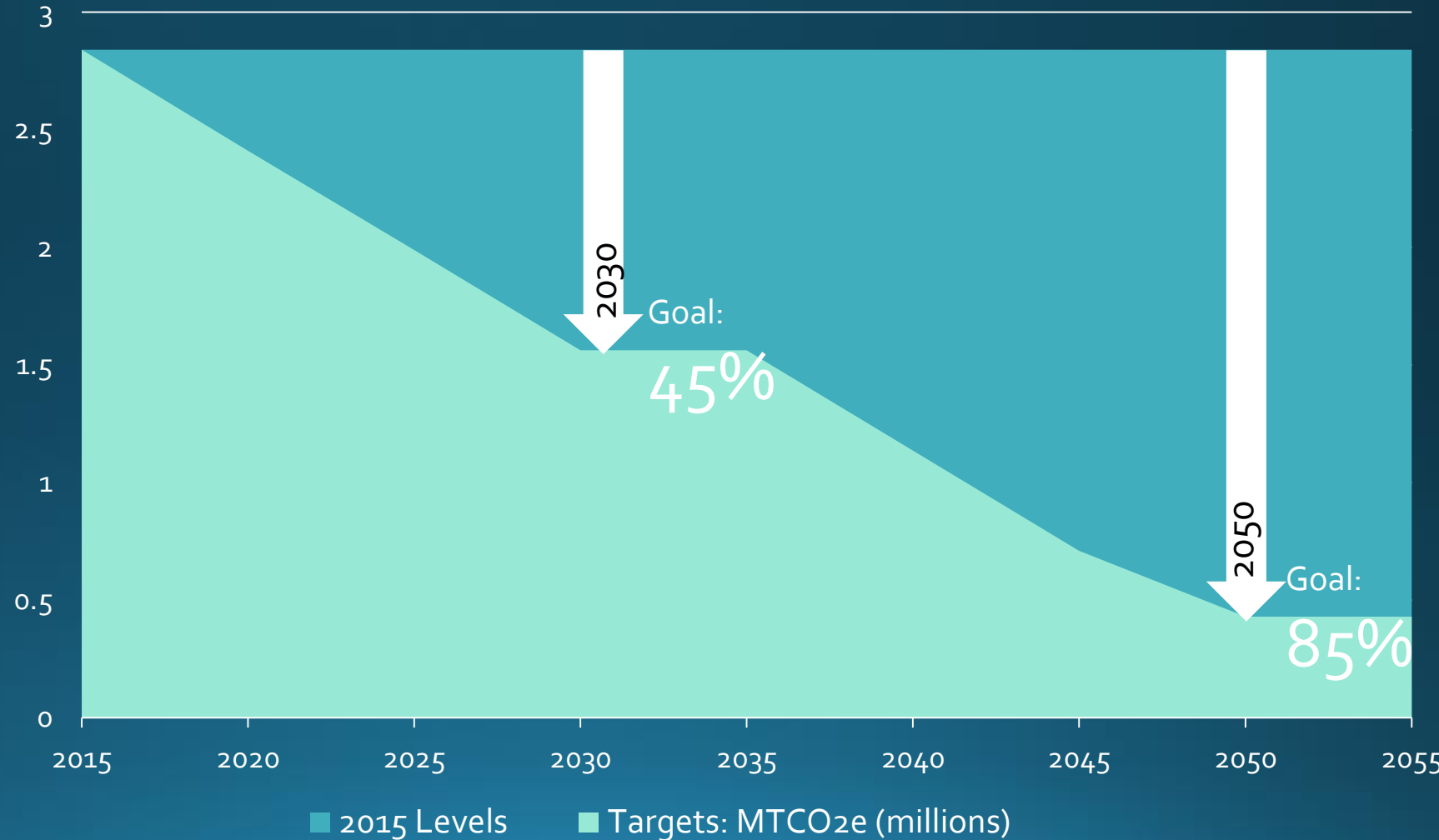
GHG Reduction Targets

• **Reduction Targets:**

- Reduce communitywide emissions 45% below 2015 levels by 2030 and 85% below 2015 levels by 2050.

• **2015 Baseline:**

- 2015 inventory of countywide emissions ~2.84 million MTCO₂ equivalent
- Incorporates real energy, solid waste, agricultural, and transportation data from PSE, TRPC, and other sources.



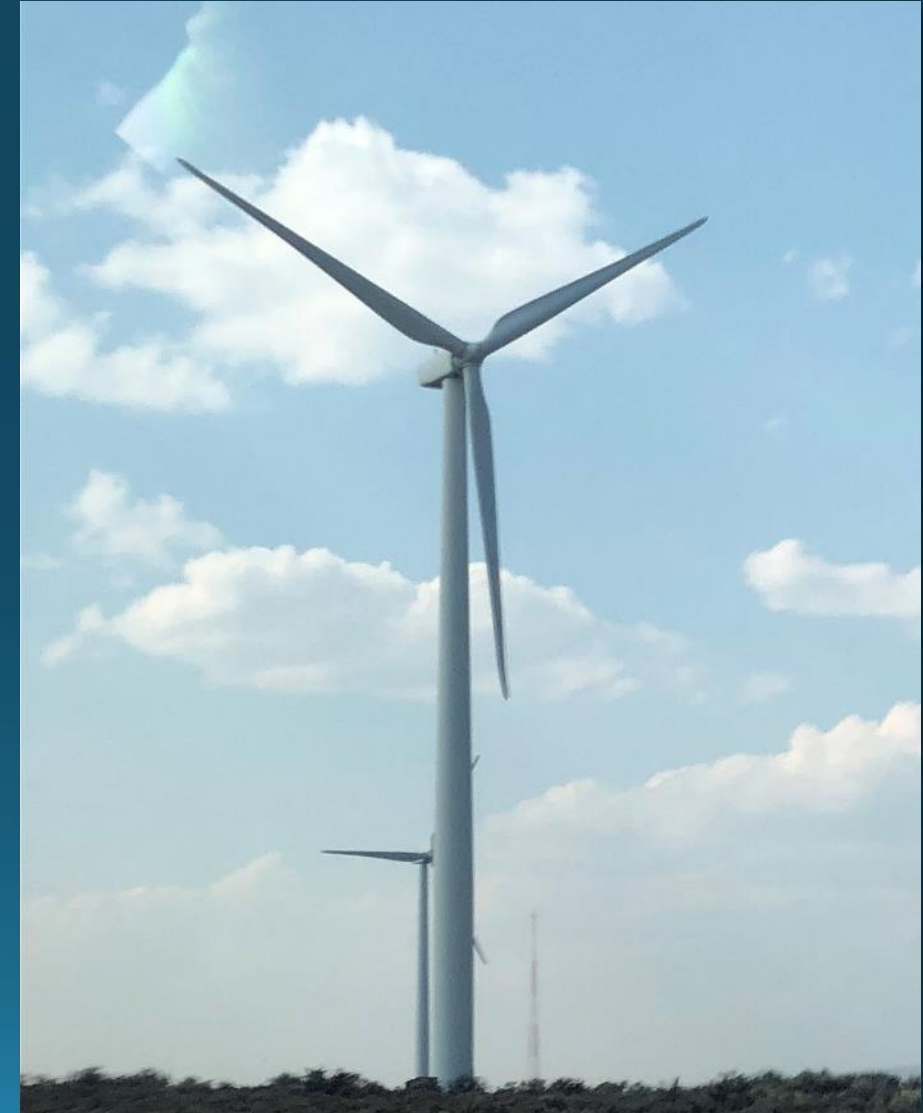
Phase 2 - Overview

- **Steps:**

- Eliciting public input and drafting actions
- Assessing actions' cumulative impact quantitatively
- Identifying leads, partners, and funding sources for actions
- Creating an implementation strategy for each jurisdiction (interjurisdictional and jurisdictional actions)

- **Action Examples:**

- Improving building energy efficiency
- Boosting wind, solar and other “clean” power generation
- Protecting and enhancing forests and “carbon sinks”
- Creating local green jobs (e.g., servicing solar panels)
- Increasing transportation alternatives (transit, EVs, etc.)





TRPC
Project oversight, committee and
workgroup coordination.

Process Overview

CONSULTANT TEAM

Will lead public-engagement efforts, perform technical analysis, and help develop and measure mitigation actions for both the Steering Committee & Advisory Workgroup consideration.



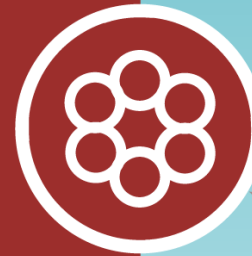
ADVISORY WORKGROUP

Subject matter experts and other community members will recommend actions for consideration by the Steering Committee.



STEERING COMMITTEE

Elected official and staff from each jurisdiction, will meet about monthly and steer the project (select consultants, stakeholders, vision & guiding principles).



JURISDICTION PARTNERS

Each jurisdiction's policymaking body will consider a resolution that adopts the mitigation plan and affirms the jurisdiction will execute its Implementation Strategy.



COMMUNITY ENGAGEMENT

Social media, traditional media, community events, open houses, surveys, and meetings.



Public Engagement Strategy – Focus on Inclusivity



2 Project kick-off workshops - background information sharing



2 Communitywide open houses – gathering community input



Online survey



Multimedia engagement tools



Community festival information booth

Major Tasks



Evaluate Emissions Inventory



Supplement existing mitigation actions

- 1 Buildings and Energy
- 2 Transportation and Landuse
- 3 Agriculture and Forestry
- 4 Water and Waste
- 5 Cross-Cutting Actions



Perform quantitative and qualitative analysis of actions

Multi-Criteria Analysis

- Effectiveness and impact
- Estimated cost
- Realization of co-benefits
- Feasibility
- Urgency

Scenario Planning (Wedge Analysis)



Define and plan community actions



Develop implementation strategies



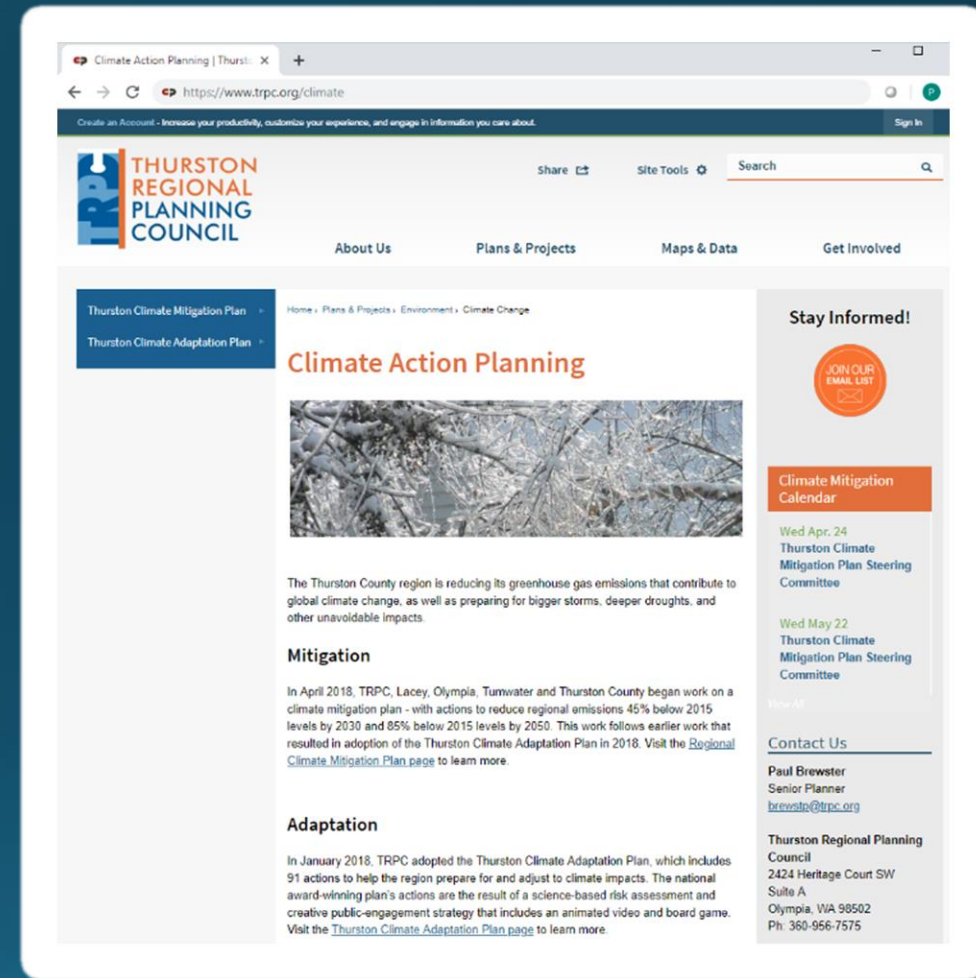
Create monitoring and reporting framework

Transportation

- **Action Examples:**
 - Shift the share of SOV trips to transit, walking, bicycling, carpooling, telework, compressed work week
 - Prohibit vehicle idling
 - Transition public fleets to cleaner, energy-efficient vehicles
 - Update development codes to require vehicle charging infrastructure in new construction
 - Implement congestion pricing in the Pierce/Thurston I-5 Corridor



Project Website – www.trpc.org/climate



Project Lead:

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