



## Climate Action Plan/Climate Adaptation Strategy Update

City of Tacoma | Environmental Services  
Infrastructure, Planning & Sustainability

May 12, 2021

ITEM #



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## BACKGROUND



### Guiding Principals

1. Act locally and collaboratively with ambition & urgency
2. Lead with racial justice & equity
3. Build transformational solutions for enduring community recovery
4. Prioritize health & other co-benefits
5. Make decisions based on science & data, including community input
6. Be transparent & accountable

**Purpose – identifying high impact 2030 strategies and targets & 2024 near-term actions**

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## BACKGROUND



### Timeline

- Phase 1 – Understanding Community Priorities (Sept.-Dec. 2020)
- Phase 2 – Strategy & Action Planning (Jan.-April 2021)
- Phase 3 – Plan Release & Adoption (May-Sept. 2021)

### Who's Involved

- Executive Steering Committee
- Environmental Justice Leaders
- Frontline community members

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## NATURAL SYSTEMS & LOCAL FOOD



### Expand healthy tree canopy

- Additional staff
- Youth training program
- Integrate into existing asset management process

### Increase protection of biodiversity and habitat

### Develop local food growing & production capacity

### Increase access to local produce & healthy foods

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## BUILDINGS & ENERGY



- Develop & enhance financing mechanisms for new buildings & retrofits
- Propose codes to achieve net zero emissions
- Support transition of natural gas and oil equipment in existing buildings & homes
- Explore residential carbon score & commercial benchmarking & disclosure
- Increase education, training & technical assistance
- Assist industrial sector in operational decarbonization
- Plan for future clean fuel needs

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## MOBILITY & LAND USE



- Advance transportation electrification
- Improve zoning and other codes to support active mobility & people centered design
- Partner with transit agencies on clean & accessible service
- Increase infrastructure and access to active transportation and encourage use

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## CONSUMPTION & MATERIAL MGT



- Increase financial support for community partners leading waste prevention efforts
- Increase food waste prevention & diversion programs
- Ban food waste from garbage
- Provide support for material marketplace platform & clean material processing and end use
- Reduce C & D waste stream
- Increase accountability & tracking of diverted materials
- Enhance safe strategies for diverting materials at TRTC

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## GREEN ECONOMY



- Increase local green job incentive
- Increase support for transitioning existing businesses to clean/low carbon/resource-efficient
- Increase support for climate-smart, high-road workforce development training
- Use development agreements to catalyze green development
- Prioritize development of new, clean industries & jobs
- Convene existing industry & manufacturing to share decarbonization best practices

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# CLIMATE ADAPTATION STRATEGY

- Focus on municipal operations with application to larger Tacoma community
- Updated sea level rise (SLR) analysis
- Six focus group areas:
  - Natural Systems
  - Governance
  - Infrastructure
  - Social Equity & Communities
  - Economy
  - Public Health & Safety

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# SEA LEVEL RISE ANALYSIS

## Results: High Consequence Assets

- Marine Security Joint Operations Center, Fire Station No. 5, Franciscan Occupational Health (Port Clinic)
  - 10-yr coastal storm expected to flood 2060 – 2070
  - Daily tidal inundation by 2100
- Fire Station No. 6, Fire Training Center
  - 10-yr coastal storm expected to flood 2070 – 2080
- Central Wastewater Treatment Plant
  - Flood wall expected to overtop during 500-yr riverine flood event by 2030-2040

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## INFRASTRUCTURE ADAPTATION



**Goal:** promote resilient facilities and infrastructure that can withstand current and future climate impacts and provide multiple benefits.

### High Priority Tasks:

- Site vulnerability assessment
- Capitol project standards & tools
- Development code improvements
- Capitol project planning, prioritization & implementation

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## COST-BENEFIT ANALYSIS



### Mitigation

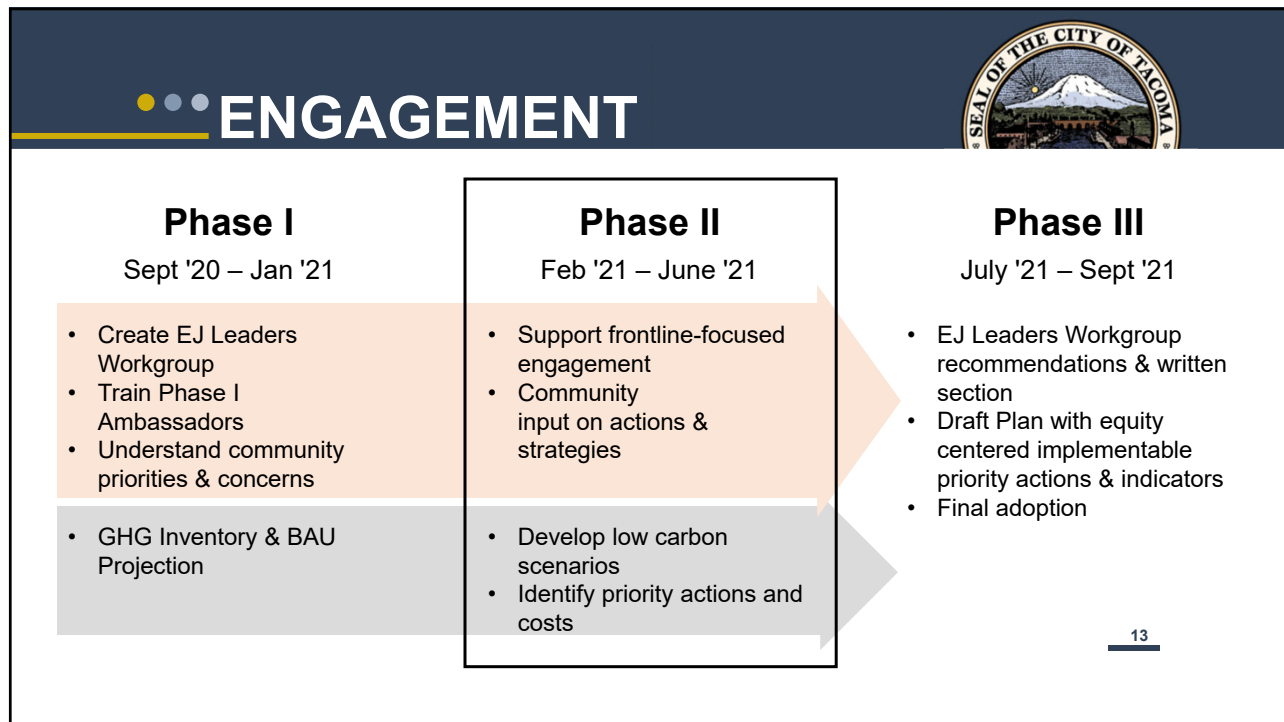
- Analysis describing investments and savings from pursuing a low carbon future thru 2050
- Will include annualized savings, job creation opportunities, and marginal abatement cost curve

### Adaptation

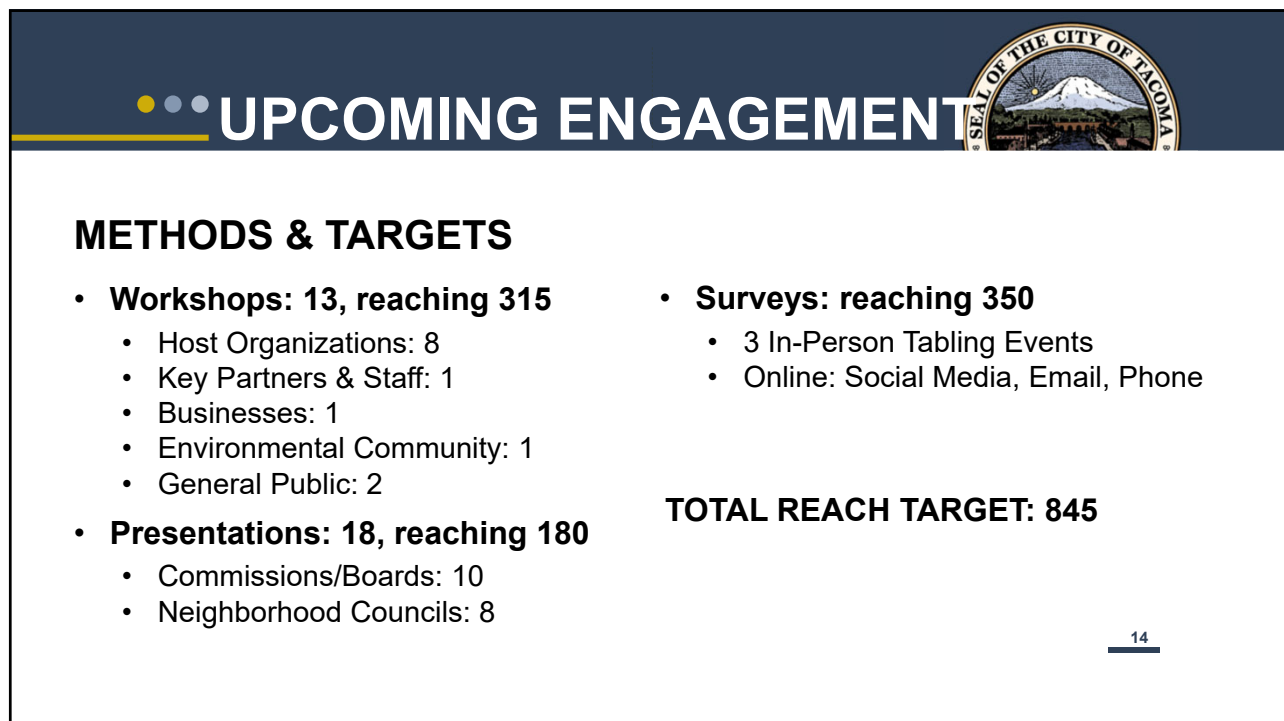
- Consider 1st cost as well as ongoing costs/savings
- Review & ground truth estimates based on past spending, current budgets
- Will take into account costs of inaction

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## NEXT STEPS



- Community Engagement– need your help
- Action refinement based on feedback
- Draft plan completed – late Summer
- IPS review - Fall 2021
- City Council Consideration – late Fall 2021
- Prioritize & coordinate action implementation with new funding opportunities

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