Transformational Integrated Greenhouse Gas Emission Reduction (TIGHGER) Project

Overview

Agenda

Time	Item
5 mins	Engagement process
5 mins	Action development review
20 mins	Recap list of actions
15 minutes	Explanation of parameterization & scenarios
15 minutes	Upcoming Co-Benefits Analysis

Received feedback from:

1. 2 public meetings (95 people)
2. State Agencies (9 agencies) – 3 rounds
3. Comments provided by more than 75 entities (individuals and organizations)
4. 2 Subcommittee meetings

Most feedback focused on the forestry (24%), buildings (23%) and the energy sectors (17%)

What we have done:

- Added over 20 new actions
- Revised over 40 actions
- Consolidated actions to reduce overlap
- Removed actions

Overview

Action development

An Action is:

A category of actions not currently being implemented by the State of Oregon or its agencies, which will **reduce GHG emissions or sequester carbon**

1	2	3	4	5
Identification	Mapping to sectors	Assessing the relative impact & finalizing action list	Setting parameters	Defining scenarios

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Identification

Interviews

Studies

Literature

Best practices

ID	Sector	Status	Description	Estimated emissions reduction impact	Data Confidence Factor	Technology Confidence Factor	Environmental Justice Impact (Both Urban/Rural)	EJ N
1	Waste	Planned	Implement Plastic Pollution and Recycling Modernization Act (SB 582, 2021)	Low	Medium	High	Low	Ther were
2	Waste	Planned	Implement methane regulations for landfills	Low	Medium	High	Medium	
3	Materials	New	Include GHG emissions reduction measures in state procurement with a focus on construction materials, food, IT hardware and services, fuels, vehicles, and professional services.	Medium	Medium	High	Low	Depe
4	Materials	New	Increased reduction of GHG emissions associated with food waste through prevention and recovery of energy and nutrients from discarded food via composting and anaerobic digestion	Medium	High	High	High	One peop
5	Materials	New	Fund significant expansion of DEQ reuse/repair infrastructure grants; establish Right to Repair in statute	Medium	Low	Medium	High	repa area
6	Materials	New	Increase reuse of existing buildings and materials	Medium	Low	Medium	High	reus affor
7	Materials	New	Embodied carbon measurement, disclosure, and performance requirements for construction materials including concrete, asphalt, steel, and wood products.	Medium	Medium	Medium	High	may mate whic prior
8	Materials	New	Embodied carbon carbon measurement, disclosure, and performance standard for buildings and infrastructure - includes new and existing buildings	Medium	Medium	Medium	High	can comi

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Mapping sectors

Sources of Emissions:

- Buildings/Built Environment
- Energy Generations
- Transportation
- Industry
- Materials
- Waste
- Agriculture

Sources of Sequestration:

- Natural and Working Lands

Relative impact

Emissions Reductions

High
Medium
Low

Data Confidence

High
Medium
Low

Technology Confidence

High
Medium
Low

Co-Benefits:

- For purposes of what to include in the model we asked for feedback on which emissions reductions actions with low impact should be included in the modeling because of important co-benefits

Today

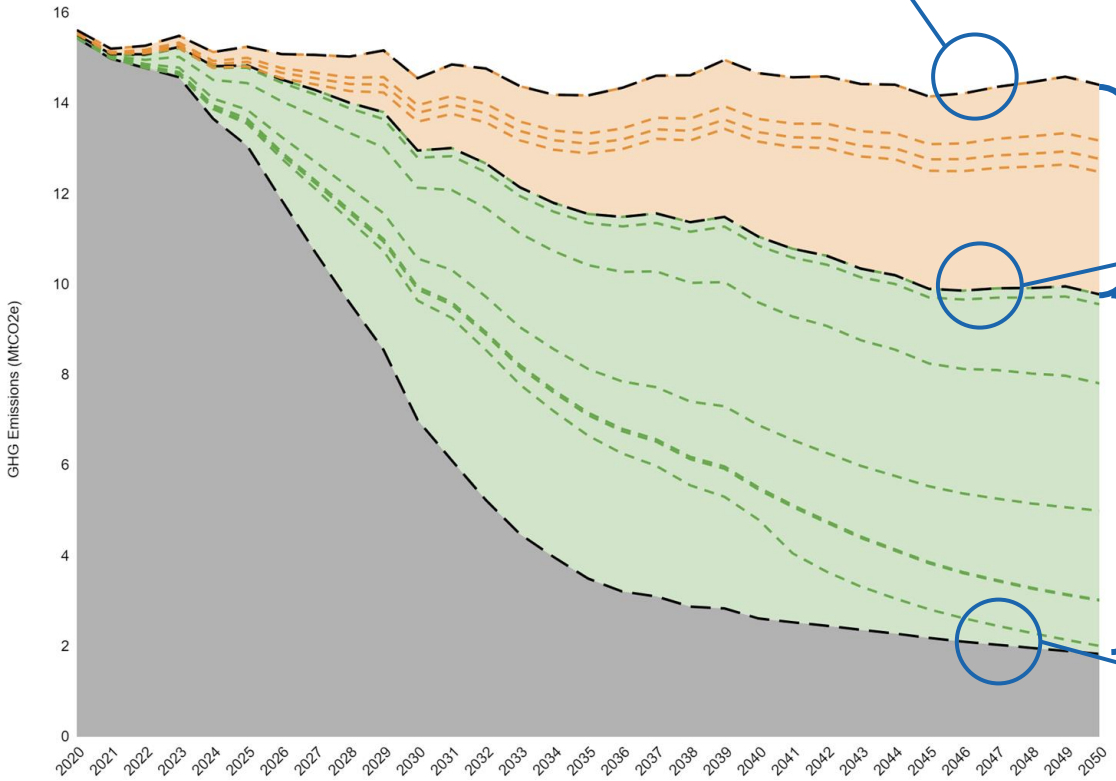
- Discuss overarching approach to modeling
- List of actions to be modeled
- Discuss process for parameterizing the actions
- Preview of the co-benefits work we will do later this month

Approach to Modeling Actions related to HB 2021 and CPP:

Assume that only utility-scale generation and storage will be addressed through HB 2021, and will model supplemental state actions

Model potential actions that could help achieve and augment Climate Protection Program targets

Integrated Scenarios



Business as Usual

Planned policies and actions to reduce emissions and sequester carbon

Business as Planned

New actions to reduce emissions and sequester carbon

Decarbonization Pathway

List of Actions

- Clarification questions?

Parameterization

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Setting parameters

Residential Retrofits

Action	Parameterization
Increase the energy efficiency of existing buildings through retrofits	Target 75% of residential buildings built before 2019 are retrofit to decrease space conditioning energy use by 50% and non space conditioning energy use by 10% by 2040.

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Defining scenarios

NAME	DECARBONIZATION PATHWAY 1	DECARBONIZATION PATHWAY 2
DESCRIPTION	Rapid decarbonization	Tech Transformation
WHAT HAPPENS IF...	We speed up	Technology advances rapidly

Upcoming Co-Benefits Analysis