

Transformative Integrated Greenhouse Gas Emissions Reductions Plan (TIGHGER Plan)

The goal of the TIGHGER Plan is to analyze and identify actions across all sectors that can reduce greenhouse gas emissions while continuing to grow Oregon's economy and enhance equity and quality of life of all Oregonians. These potential actions are to serve as inputs for consideration by the Governor, Legislature, and policy makers to develop a plan for Oregon to meet its GHG emissions reduction targets.

What is the TIGHGER Plan?

Based on analysis and stakeholder input, the TIGHGER Plan will identify a suite of ambitious, transformative, and financially realistic economy-wide decarbonization actions and pathways that could be used to reach Oregon's target of 45 percent greenhouse gas emissions reduction targets. The TIGHGER Plan will serve as the [Oregon Global Warming Commission's Roadmap to 2035](#), an evaluation of additional actions the state may take to supplement other state efforts (such as the [Oregon Department of Environmental Quality's Climate Protection Program](#) and [House Bill 2021](#)).

Scope and Project Tasks

Overall, this project will: assess the GHG emissions reduction potential and cost-effectiveness of individual and packages of actions, develop sector-based marginal abatement cost curves, and evaluate co-benefits that support an equitable energy transition. The TIGHGER Plan includes six core components:

1. Identify emission reduction and sequestration actions, with agency and stakeholder engagement.
2. Analyze the cost and GHG emissions reduction of each action.
3. Develop sector-based and economy-wide marginal abatement cost curves.
4. Determine and analyze the co-benefits for each action.
5. Score and rank the actions using agreed upon evaluation criteria.
6. Create a new "Roadmap to 2035" to meet our goals.

TIGHGER Plan Team

The Oregon Global Warming Commission will serve as a steering committee providing oversight and guidance, and will provide critical input into every phase of the plan. The Oregon Department of Energy will provide analysis, support, and project management. Analysis will also be provided by consultant team *Sustainable Solutions Group (SSG)* and *What If? Technologies*. The consultant's scope of work focuses on the plan's first four steps, focused on: gathering and reviewing background information to identify potential actions; analyzing the GHG reduction potential and cost-effectiveness of individual actions; developing sector-based marginal abatement cost curves, and analyzing co-benefits associated with actions.

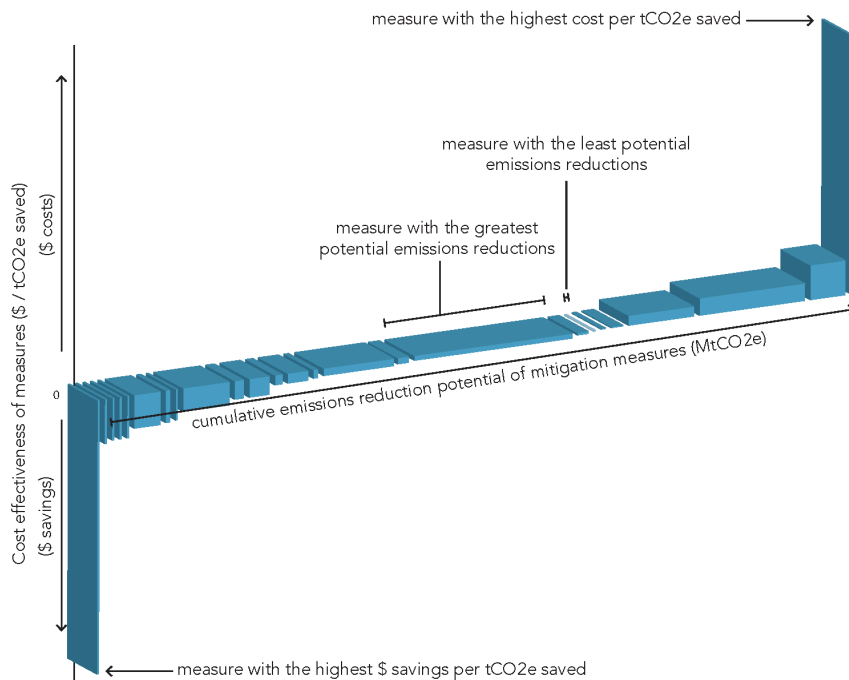
Once the analysis is completed, the Commission, with support from ODOE staff, will establish evaluation criteria, score and rank the actions, and create a roadmap to help Oregon meet its statewide GHG emissions reduction goals for 2035.



What are Marginal Abatement Cost Curves?

Marginal abatement cost curves, or MAC curves, measure and represent both the cost and the GHG emissions reduced by actions or bundles of actions (as illustrated in the below figure).

Example of a MAC Curve for a Jurisdiction



Bundling of Actions

Because many actions may be dependent on each other, and many actions may be needed simultaneously to achieve the GHG reduction goals, the project will also include an analysis of *how* actions can be bundled to achieve Oregon's GHG reduction targets.

Analysis of Co-Benefits and Equity Implications

Stakeholders will be engaged to identify the co-benefits of actions and which metrics to be included in the analysis. Co-benefits are those beyond GHG emission reductions, and could include: environmental and health effects, equity impacts on traditionally underrepresented and vulnerable populations, increases in resilience, potential for job creation, and other effects on quality of life.

TIGHGER Plan Schedule

The overall project will take place over the next year and a half and will be complete by the end of 2022. Agency and stakeholder engagement will occur September through November 2021. The consultant's work is expected to be completed by the end of February 2022.

More Information

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