

UM 2165 Transportation Electrification Investment Framework

Dec. 14, 2021 OPUC Staff

Today's Presentation

- UM 2165 Scope and Goals
- Public Workshop Process and Stakeholder Perspectives
- Staff Recommendation for Transportation Electrification Investment Framework
- Findings for Inclusion in Rulemaking
- Outstanding Issues and Next Steps
- Conclusion



Scope of UM 2165 and HB 2165 Implementation

UM 2165 Investigation

Launched April, 2021

- Recognition of urgency to meet state EV and decarbonization goals, support market growth and capture TE benefits, while protecting ratepayers
- Broader TE evaluation approach
- Robust public process
- Holistic investment framework
- Recommendations for rulemaking

HB 2165 and HB 3055 Implementation Passed May, 2021, effective Jan. 1, 2022

- Guidance for monthly surcharge, definitions of underserved communities
- Implementation pathway for Division 87 rulemaking and TE Plan filings





2021 TE Legislation: HB 2165 and HB 3055



- New TE funding source: monthly meter surcharge
- Minimum 50 percent expenditures support TE in underserved communities
- Focus on infrastructure as new distinct category
- New statutory factors for infrastructure investments for Commission to consider during approval
- Non-infrastructure measures: only change is to exclude infrastructure measures from this bucket

UM 2165 Public Workshop Process, May – October 2021

Workshop 1: Current PUC Tools

Workshop 2: Benchmarking TE Best Practices

Workshop 3: Portfolio Analysis

Workshop 4: State Government Panel

Workshop 5: Implementing HB 2165 & HB 3055

Workshop 6: Underserved Communities

Workshop 7: Staff guidance for Legislation Implementation



Benchmarking Regulatory Approaches for TE Evaluation

State	Method	Test/Standard	Consistent with Other DERs?
MD	Benefit-cost analysis (BCA)	JST in development	No?
MN	BCA	SCT, UCT, RIM (no primary test)	Mostly
NY	BCA	SCT (primary)	Yes
RI	BCA	JST (primary)	Yes
WA	BCA	SCT (primary)	No
СА	Performance vs Target	Minimize costs and maximize benefits	No
СО	Performance vs Target	Rate Impact <0.5%	No
VA	Prudence	Public Interest	No



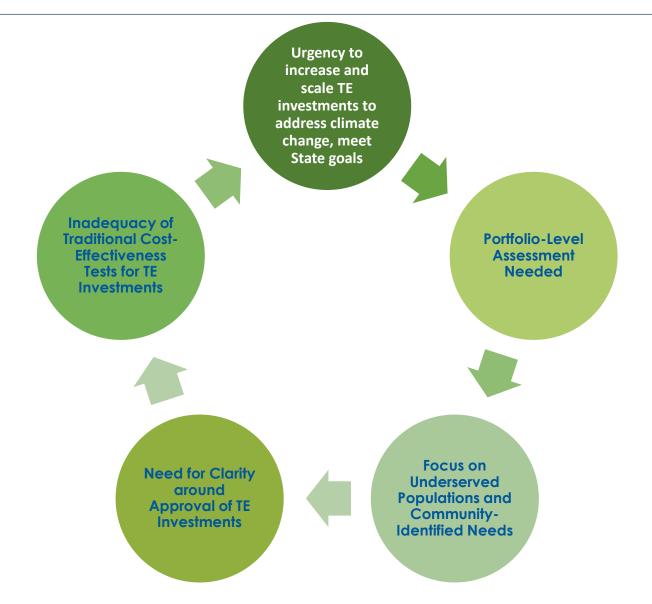
Source: John Shenot, Senior Associate, The Regulatory Assistance Project

Stakeholder Feedback and Key Themes

Oregon

Public Utility

Commission



Staff Recommendation for TE Investment Framework

TE Portfolio Plan and Budget

Infrastructure Guardrail

Maximum investments aligned with ODOT's *Transportation Electrification Infrastructure Needs Analysis* (TEINA) and SB 1044 adoption goals for light-duty EVs

Portfolio Performance Areas

Direct goals and measure progress of investments to focus portfolios, deliver data

2025

Benefit-Cost Analysis

Various cost tests applied, non-binding

2024

"Jurisdiction-specific" Societal Cost Test, applied for TE approval

2030



Infrastructure Guardrail: Why TEINA?

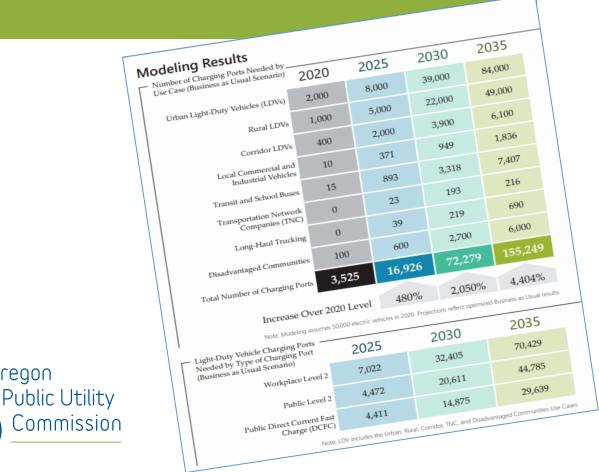
ODOT's Transportation Electrification Infrastructure Needs Analysis (2021)

- Predictive model forecasting public charging infrastructure needed to meet State policy goals for EV LDV adoption
- Most rigorous analysis of charging infrastructure need in Oregon
- Flexible, capable of incorporating updates as EV market evolves
- Can be applied to service territory, census tract, across use cases, to inform equitable utility planning
- Robust stakeholder process, highlights market barriers and recommendations



Infrastructure Guardrail: TEINA

Oregon



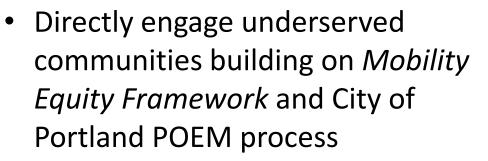
- Utilities can use TEINA to set maximum budget for service territory to meet State EV adoption goals
- Then propose TE portfolios to move market within maximum need
- Use TEINA's methodology, updating inputs with best available data
- Augment with estimated private charging needs
- Prioritize external funding sources
- User-facing tools from ODOT

Portfolio Performance Areas

- 1. Greenhouse gas emission reduction
- 2. EV adoption
- 3. Underserved community inclusion and offerings
- 4. Distribution system impacts and resource benefits
- 5. Program participation
- 6. Charging adequacy
- 7. Infrastructure performance
- 8. Learnings for readiness

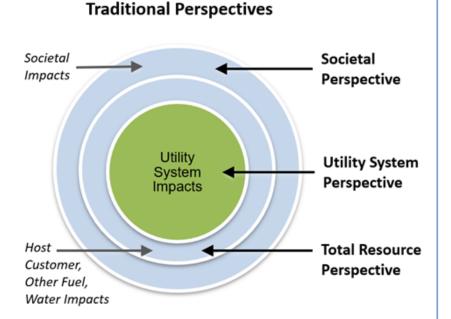


Underserved Community Engagement and Offerings



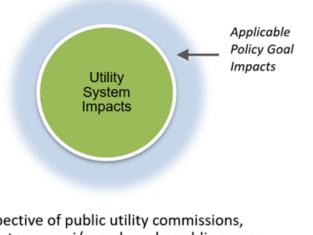
- To guide community prioritization, geographic designation, spending priorities
- Utilities should establish and report on goals for outreach, learnings, investment plans, riming and rollout, equitable infrastructure, EV ownership, total expenditures on underserved communities

Benefit-Cost Analysis: Cost-Effectiveness Perspectives



• Three perspectives define the scope of impacts to include in the most common traditional cost-effectiveness tests.

Regulatory Perspective



- Perspective of public utility commissions, legislators, muni/coop boards, public power authorities, and other relevant decision-makers.
- Accounts for utility system plus impacts relevant to a jurisdiction's applicable policy goals (which may or may not include host customer impacts).
- Can align with one of the traditional test perspectives, but not necessarily.

Source: Tim Woolf, Synapse Energy Economics and Lead Author, *National Standard Practice Manual for Distributed Energy Resources, 2020*



Jurisdiction-Specific Test (JST) and Traditional Cost Tests

Test	Perspective	Key Question Answered	Categories of Benefits and Costs Included
Jurisdiction- Specific Test	Regulators or decision- makers	Will the cost of meeting utility system needs, while achieving applicable policy goals, be reduced?	Includes the utility system impacts, and those impacts associated with achieving applicable policy goals
Utility Cost Test	The utility system	Will utility system costs be reduced?	Includes the utility system impacts
Total Resource Cost Test	The utility system plus host customers	Will utility system costs and host customers' costs collectively be reduced?	Includes the utility system impacts, and host customer impacts
Societal Cost	Society as a whole	Will total costs to society be reduced?	Includes the utility system impacts, host customer impacts, and societal impacts such as environmental and economic development impacts

Oregon

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Source: Tim Woolf, Synapse Energy Economics

Findings for Rulemaking – TE Planning



- Portfolio-wide TE Plan that encompasses all proposed TE investments and activities
- Two-year action plan, budget and annual report
- Broad offerings that are multi-modal, address market barriers
- Holistic planning process includes Clean Fuels
 Program and all other funding streams
- Rescind Order No. 18-376 allow utilities to coordinate CFP revenue with ratepayerfunded programs, and fold CFP plan review into TE Plan review.

Revise to: Direct Staff to identify timing of CFP plan filings, allowing for holistic planning process and utility flexibility to mix ratepayer and CFP funds

TE Working Group

- TEINA model methodology
- Interoperability between EVSE companies
- Develop Jurisdiction-specific cost test
- Distribution system impacts and EV charging management
- Standardizing business practices to ensure greater consumer protections
- Coordinated rate design Utilities to update working group in 12 months
- Other topics as needed



Outstanding Issues and Next Steps

Issue	Next Step
Common understanding of TEINA and model implementation	Stakeholder workshop, Jan - Feb, 2022
Performance areas and metrics Clean Fuels Program integration Attribution	Division 87 rulemaking process, Q1-Q2
Emerging issues across implementation, planning, market development	TE Working Group Q3 and quarterly







- 1. Adopt Staff's recommendation to implement TE Investment Framework
- 2. Waive OAR 860-087-0020(2)(b) for next utility TE Plan filings
- 3. Order Staff to open rulemaking to revise Division 87, to begin in early 2022
- 4. Rescind Commission Order No. 18-376 *Revise to: Direct Staff to identify timing of CFP plan filings, allowing for holistic planning process and utility flexibility to mix ratepayer and CFP funds*
- 5. Direct Staff to convene a quarterly TE working group