

Puget Sound Zero-Emission Truck Collaborative
Initial Roadmap Outline (10/18/23)

Roadmap Initial Outline

This initial outline of the Roadmap seeks to capture discussions to date about key contextual information about the transition to zero-emission drayage and areas where the Collaborative will provide actionable recommendations.

- A. **Introduction**--Project purpose and process
- B. **Vision**--What we are seeking to accomplish and guiding principles
- C. **Drayage Sector Context**
 - 1. Drayage market size, composition, and trajectory
 - 2. Drayage routes
 - 3. Driver issues and characteristics
 - 4. Community issues and characteristics
- D. **Forecasted Transition**
 - 1. Factors affecting speed and nature of market development (e.g., technology, funding, policy)
 - 2. Scenarios/forecasts of drayage vehicle and charging/fueling characteristics over near, medium, and longer terms
- E. **Issues & Actionable Recommendations**
 - 1. Equity and Opportunity
 - a. Ensure vehicle affordability, access, and support for IOOs and small businesses
 - b. Ensure equitable access to infrastructure
 - c. Minimize negative impacts on drayage business practices and models for those least able to mitigate them
 - d. Engage communities and maximize benefits
 - e. Create economic opportunity and mitigate unintended consequences
 - f. Maximize co-benefits (e.g., safety, parking, jobs)
 - 2. Vehicles
 - a. Ensure affordability through financial incentives
 - b. Provide appropriate alternatives to vehicle ownership (e.g., trucking-as-a service)
 - c. Consider non-financial incentives
 - d. Mitigate impact of additional vehicle weight
 - e. Ensure vehicle availability
 - f. Ensure adequate vehicle maintenance and services
 - g. Increase vehicle familiarity and training
 - h. Create secondary ZEV market
 - i. Accelerate diesel vehicle retirement
 - j. Consider approaches for sharing costs of transition throughout the drayage supply chain (e.g. shippers)
 - 3. Charging and Fueling Infrastructure

- a. Ensure appropriate mix of charging types (behind-the-fence, trucking-as-a-service, public charging) and composition
- b. Ensure sufficient infrastructure is available as ZEVs come into the market
- c. Create appropriate role for hydrogen vehicles and fueling
- d. Appropriately locate infrastructure to provide adequate opportunity and minimize disruption to drayage patterns
- e. Site infrastructure in ways appropriate to the sector and community
- f. Design facilities to ensure security and provide amenities for drivers and communities
- g. Ensure adequate funding/financing for infrastructure costs
- h. Develop policy to facilitate future infrastructure (e.g., EV-ready building codes)
- i. Ensure high level of infrastructure reliability
- j. Ensure adequate power supply and infrastructure from utilities

F. Funding Needs and Enabling Policies

G. Roles and Responsibilities

H. Collaboration

I. Tracking Implementation and Measuring Success

J. Conclusion: Call to Action