

# Key Groups of Vision elements:

- **Resilience: reducing risks and enhancing benefits**
- **Education / social learning - needs to be early and ongoing**
- **Successful projects:**
  - **Technology development and adoption**
  - **Operations and management**
- **Market approaches**
- **Policy: Laws, regulations, and standards that support bioenergy**
- **Workforce development**
- **Other?**



**BIOENERGY FROM FORESTS**  
**PNW FIELD DIALOGUE**

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Portland, OR / Toppenish, WA

# Challenges Summary

- **Market and Economic Constraints**
  - Low-value biomass
  - Lack of durable markets and investment certainty
- **Policy and Regulatory Barriers**
  - Fragmented and inconsistent policy frameworks
  - Missing or misaligned incentives
- **Workforce and Capacity Gaps**
  - Aging workforce, limited recruitment
  - Insufficient technical capacity

# Challenges Summary

- Public Trust and Social License
  - Widespread misunderstanding and mistrust:
  - Urban-rural disconnect
- Equity and Tribal Inclusion
  - Limited support for Tribal forest stewardship
  - Lack of integration of Traditional Ecological Knowledge
- Project Implementation Challenges
  - Weak or absent supply chains
  - Unclear or inconsistent benefits quantification