

# Transforming the Northwest Energy System NWESS 2026



University of Washington  
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**Speaker:** Tanya Panomvana

**Title:** Future-Ready Secondary Design: Middle Housing Impacts and EPRI's ReSet Tool

**Abstract:** As middle housing policies increase residential density, utilities must adapt their secondary distribution systems to meet new load and service demands. This presentation highlights key design considerations associated with duplexes, triplexes, fourplexes, and townhomes, including transformer sizing, conductor loading, and voltage performance.

The session will also introduce EPRI's ReSet (Residential Secondary Design Tool) and demonstrate how it supports data-driven secondary design decisions, helping utilities plan for reliable and efficient service in evolving residential developments.

**Bio:** Tanya Panomvana is the Sr. Manager of Joint Use Engineering and Wood Pole Design at Seattle City Light, bringing 20 years of experience in electric utility operations and infrastructure planning. Since beginning her career in 2005, she has held engineering roles in Distribution, Network, Streetlight, and Standards Engineering, developing broad technical expertise across urban power systems.

Tanya has led numerous high-profile and complex infrastructure projects involving underground and overhead electrical distribution design, customer service installations, and system standards. Her work focuses on balancing reliability, safety, and operational efficiency in a dense urban environment.

She holds a Bachelor of Science in Electrical Engineering and a Master of Business Administration from the University of Washington and is a licensed Professional Engineer. Tanya is passionate about mentoring emerging engineers, building strong technical teams, and advancing the industry through her involvement with IEEE