Transforming the Northwest Energy System
NWESS 2026

NWESS IEEE
IEEE-Northwest Energy Systems Symposium

University of Washington
Alder Hall
April 1-2, 2026

Speaker: Jamie Dunckley

Title: Energy and Power needs of Electrified Transportation and bringing the industry together – the eRoadMAP tool

Abstract: De-carbonization of the transportation sector is key to reducing local and global emissions however understanding where and when energy and power is needed for this transition is hard to predict. Furthermore, there isn't one method or dataset that everyone uses to understand future electric transportation needed. eRoadMAP is a publicly available tool that allows utilities, cities and policy makers to understand the urgency and magnitude of electric transportation. Having a public data set that can be referenced is helping utilities garner support for the increased investment needed for electric transportation and allows utilities to see where large loads that may need special attention are likely to appear. Jamie will walk through why and how eRoadMAP was built and how it is being used.

Bio: Jamie Dunckley is a program manager of electric transportation at the Electric Power Research Institute. Jamie's team supports eRoadMAP as well as a number of projects that help understand, where, when and how much EVs charge whether they are passenger vehicles or large class 8 trucks.

Jamie has been at EPRI for 11 years and has always focused on the electrification of transportation. Her projects include eRoadMAP (as part of the EVs2Scale initiative), the Seattle City Light Electrification Assessment and a number of projects that focus on the distribution impacts of electrified transportation. Prior to EPRI, Jamie worked as a research scientist at the Center for Ocean Solutions. She holds a PhD in Civil and Environmental Engineering from Stanford University and a Civil and Environmental Engineering degree from the Massachusetts Institute of Technology.

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