



# NORTHWEST ENERGY EFFICIENCY ALLIANCE

Portland, OR

## *NORESCO assists NEEA and Washington State in developing a Commercial Building Energy Code roadmap geared toward achieving long-term energy goals.*

The Washington state legislature has set a goal that the 2030 state energy code achieves a 70% site energy reduction compared to the 2006 state energy code. In order to achieve this goal, the Northwest Energy Efficiency Alliance (NEEA) and the Washington State Department of Commerce selected NORESKO to help develop a Washington State Commercial Building Energy Code Technical Roadmap ©. This roadmap identifies a group of building strategies and technologies that can achieve the goal of 70% annual net energy reduction for four building types: office, retail, multifamily, and higher education.

NORESCO identified four steps to the successful development of this roadmap: baseline analysis of the five building types to determine end-use consumption and distribution; building strategy identification and package analysis per building type; roadmap development and barrier identifications; and stakeholder feedback to determine overall future success of the implementation plan.

NORESCO then developed a technology matrix to characterize the cost-effectiveness and maturity level of available technologies. Through this analysis, NORESKO was able to identify potential barriers and then create customized packages by building type to determine which technologies will successfully allow for reduced energy consumption in the long-term. Each measure and the package of measures were modeled to determine the energy savings relative to the 2006 energy code.

The final roadmap was released in 2020 and identifies building strategies that are specific to the selected building types, targets plug loads, and provides measures that would need to be implemented over multiple code cycles. It provides actionable measures that could be incorporated into the code over the next several code cycles.

## Technical Highlights

- Energy roadmap development
- Energy code development
- Building stock analysis
- Building technologies/strategies analysis

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