



Charlie Stephens
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Biography

Charlie is a Senior Codes & Standards Engineer at the Northwest Energy Efficiency Alliance (NEEA) representing the interests of its funders in federal and state energy efficiency standards processes, and helping to align the work of NEEA's Emerging Technologies and Sector Initiatives with the PNW region's codes and standards objectives.

Before coming to NEEA, Charlie was a consultant for architects and homeowners building high performance and net zero energy homes, and a senior policy analyst at the Oregon Department of Energy where he focused on residential energy efficiency, new technology development, sustainable building and community development, and energy efficiency and renewable energy policy.

Topic of Presentation at December 14, 2017 ASHRAE Chapter Meeting

"Our average smaller commercial buildings use 3 times as much energy as our best performing ones. They don't have to. As of 2016, we have available a line of very high efficiency packaged heat recovery ventilators (HRVs) that can provide appropriate amounts of ventilation air directly to a space without tempering, in any climate. When combined with very high efficiency variable capacity heating and cooling, such systems appear to be able to deliver 50-75 percent savings, on a whole building EUI basis. The result is greatly reduced energy costs and greatly improved indoor air quality. Early NEEA pilot project results are validating the concept."