

Advanced Rooftop-unit Control (ARC)-Lite Retrofit Emerging Technology Field Test Frequently Asked Questions

Why Advanced RTU Control (ARC) -Lite Retrofits?

There are over 400,000 rooftop units in the Pacific Northwest and ARC -Lite Retrofit can save up to 40 percent of rooftop unit electrical use, representing 9 aMW of regional, potential savings. They are one of the few repeatable, commercial measures with significant savings potential.

What is an ARC -Lite Retrofit?

ARC -Lite Retrofits change the rooftop-unit, supply fan operation, by cycling the fan, installing a multi-speed fan motor or installing a Variable Speed Drive.

What are good ARC -Lite Retrofit applications?

Buildings with long hours of occupancy and low heating and cooling loads are good applications for ARC -Lite Retrofits. Also, buildings with electric heat will save more electricity. Finally, buildings without energy management systems are good candidates, because they aren't usually controlled very tightly, resulting in more opportunity for savings.

Are rooftop units with gas-heat eligible for the ARC -Lite Retrofit Emerging Technology Field Test?

Yes; since most of the ARC -Lite Retrofit savings are from reducing fan energy use, RTUs with gas-heat are included in the ARC -Lite Retrofit Emerging Technology Field Test.

Are packaged heat pump rooftop units or RTUs with electric-heat eligible for the ARC -Lite Retrofit Emerging Technology Field Test?

Yes; the ARC -Lite Retrofit electricity savings will be higher than RTUs with gas-heat, so units with electric heat are preferred.

What is the typical cost for ARC -Lite Retrofits?

ARC -Lite Retrofits cost between \$2,000 and \$8,000, depending on the provider and the RTU size.