



	AVERAGE ANNUAL ENERGY SAVINGS WHEN REPLACING	
	SINGLE PANE CLEAR	DOUBLE PANE CLEAR
Northern Zone	\$568 (12%)	\$282 (6%)
North-Central Zone	\$493 (11%)	\$253 (6%)
South-Central Zone	\$547 (12%)	\$336 (7%)
Southern Zone	\$563 (12%)	\$373 (8%)

Source 2023: D+R International in support of ENERGY STAR®. Savings estimates are based on EnergyPlus 9.5 modeling for typical homes in 132 U.S. cities. The "typical home" is a 2,376 square foot, two-story, single-family house and is assumed to be the default new construction and existing construction assemblies in each location. The model home was used to create a profile for each city that considers different heating and foundation types using LBNL's consolidated approaches. The heating approach uses the weighted average of electric resistance, gas furnace, oil furnace, and heat pump systems. The foundation approach uses the weighted average of slab, crawlspace, heated basement, and unheated basement foundation types. Climate zone savings estimates represent the average savings among the cities in each climate zone. Each city's cost savings calculations assume the applicable state's average natural gas and electricity prices from the Energy Information Administration (EIA). Percentage savings in represent the energy cost savings as a proportion of the average consumer's annual whole-home utility bill. Actual savings will vary based on local climate conditions, utility rates, and individual home characteristics. Savings for all climate zones are for whole-home replacements with ENERGY STAR Version 7.0 windows.