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New Technologies that Make Replacement Windows More Energy-Efficient by [Rolf Matchen](#)

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Energy is used for warming, cooling, and brightening up homes. Windows in your house play an important role in conserving this energy. Energy-efficient windows have features that prevent warm or cool air from escaping, or any harmful elements from entering your home, which ultimately, promotes efficient energy consumption.

Modern window panes do the job of closing off your home from otherwise damaging outside elements. These windows, particularly the commercial replacement windows, consist of low-emissivity (low-E) glass panes. The emissivity (defined as the property of a certain material to emit radiation or energy) of a glass pane should be reduced to improve its protective quality. A low-E glass pane can keep more cool or warm air from escaping than a typical glass pane.

Homeowners who want a more private home install blinds on their windows, especially on single-pane ones. Unfortunately, blinds often block sunlight and reduce the natural lighting that the rooms in your house receive during the day. Some replacement windows today consist of frosted or bubble glass panes which blocks the visual of the home interior, but still allows natural lighting to enter.

In countries where sunlight provides unbearable brightness during the hottest part of the day, houses have windows equipped with suspended particle device technology. This device allows a homeowner to regulate light coming into the house by changing the dimness or the clearness of the window panes using a switch installed along the frame. It is a good alternative to blinds.

Because replacement windows with suspended particle device technology are relatively expensive, some replacement windows in highly industrialized places like Northern Virginia have glass panes that can be applied with coatings that perform as efficient as suspended particles. These coatings on Northern Virginia replacement windows cut glare and block harmful ultraviolet radiation and excess light that might harm furniture, and over the time, the health of the occupants, as well. The only drawback is that these coatings are fixed and not adjustable.

Just like copper with its natural property to thwart living organisms that contaminate its surface, the glass panes of some replacement windows Northern Virginia builders install have dual-action coatings that prevent not only radiation diffusion but also the growth of harmful organisms. This makes windows safer for children, and family members with certain illness that such windows, in fact, are recommended in hospitals and clinics. They make for easy cleaning and maintenance, as well.

If you want to read up more about replacement windows and some advisable practices in window replacement Northern Virginia builders perform, visit About.com. This website provides instructions on how to properly install a replacement window as part of home renovation.

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