



Fig. 4.1. Market penetration and energy savings of low-E windows.

#### 4.1.5 Energy Savings

One quarter of all the energy used to heat and cool U.S. buildings is required to compensate for unwanted heat flow through windows. Low-E windows can reduce the heating, cooling, and lighting requirements associated with windows by 20-40%.

LBL estimated that annual heating energy savings from the penetration of about half of the residential market (i.e., capturing about half of the annual window sales for new construction, additions, and renovations) would probably exceed \$120 million. Cumulative savings by the year 2000 would be more than \$3 billion (American Council for an Energy-Efficient Economy and Energy Conservation Coalition, 1986). This estimate assumes annual sales of about 400