

PRODUCT MANUFACTURERS	DESIGNERS	RESEARCHERS AND EDUCATORS	AUDITORS AND CODE OFFICIALS
HVAC Equipment Manufacturers (Carrier, Westinghouse, Lennox, Trane)	Government Agencies and Contractors (GSA, U.S. Army, U.S. Navy, U.S. Air Force, NIH, DOE, etc.)	Universities (more than 50 in the U.S.)	State Energy Offices (CA, FL, AL, NY, GA, OR, MN, NC, TX, etc.)
Controls Manufacturers (Robertshaw)	Architectural/Engineering Firms (S-O-M, Heery, Haskell, Kaiser, Bechtel, Steven Winter, etc.)	Professional Societies (ASHRAE, ASME, etc.)	Utilities (BPA, TVA, So. Cal. Edison, B.C. Hydro, etc.)
Product Manufacturers (Owens-Corning, Southwall, Johns-Manville, Birdair, etc.)	Corporate Design Departments (DuPont, IBM, Eli Lilly, Dow Chemical, Raytheon, Ford Corp., BEST, McDonalds, etc.)	National Laboratories (ORNL, PNL, LBL, ANL, NBS, SERI, BNL, LLNL, LANL, SANDIA)	
Industry Organizations (GRI, EPRI, NAHB, AAMA)			

Fig. 4.5. Beneficiaries of DOE-2.
 (Source: After Winkleman, 1988)

4.5.4 Spinoffs

The extensive use of the mainframe DOE-2 computer program developed by LBL has given birth to numerous spinoffs. The chief spinoffs include the availability of DOE-2 for microcomputers and the use of DOE-2 algorithms in the evolution of other buildings evaluation programs.