

Tool Name: AI13 BEES (Building for Environmental and Economic Sustainability)

Direct url: <http://www.bfrl.nist.gov/oe/software/bees.html>

If this link does not work, try using this path:

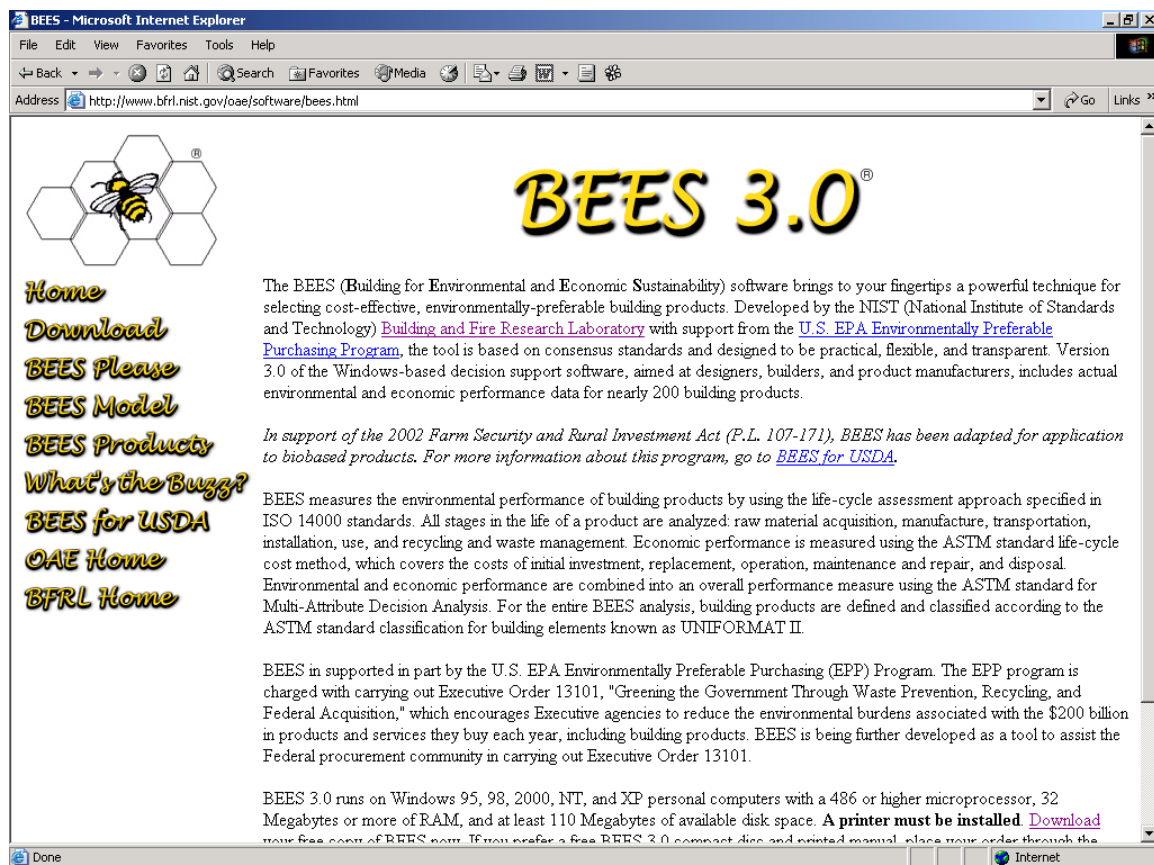
Go to:

<http://www.bfrl.nist.gov/>

On the right hand menu, under Products and Software, click on Software>

Click on BEES

Screenshot:



BEES 3.0

The BEES (Building for Environmental and Economic Sustainability) software brings to your fingertips a powerful technique for selecting cost-effective, environmentally-preferable building products. Developed by the NIST (National Institute of Standards and Technology) [Building and Fire Research Laboratory](#) with support from the [U.S. EPA Environmentally Preferable Purchasing Program](#), the tool is based on consensus standards and designed to be practical, flexible, and transparent. Version 3.0 of the Windows-based decision support software, aimed at designers, builders, and product manufacturers, includes actual environmental and economic performance data for nearly 200 building products.

In support of the 2002 Farm Security and Rural Investment Act (P.L. 107-171), BEES has been adapted for application to biobased products. For more information about this program, go to [BEES for USDA](#).

BEES measures the environmental performance of building products by using the life-cycle assessment approach specified in ISO 14000 standards. All stages in the life of a product are analyzed: raw material acquisition, manufacture, transportation, installation, use, and recycling and waste management. Economic performance is measured using the ASTM standard life-cycle cost method, which covers the costs of initial investment, replacement, operation, maintenance and repair, and disposal. Environmental and economic performance are combined into an overall performance measure using the ASTM standard for Multi-Attribute Decision Analysis. For the entire BEES analysis, building products are defined and classified according to the ASTM standard classification for building elements known as UNIFORMAT II.

BEES is supported in part by the U.S. EPA Environmentally Preferable Purchasing (EPP) Program. The EPP program is charged with carrying out Executive Order 13101, "Greening the Government Through Waste Prevention, Recycling, and Federal Acquisition," which encourages Executive agencies to reduce the environmental burdens associated with the \$200 billion in products and services they buy each year, including building products. BEES is being further developed as a tool to assist the Federal procurement community in carrying out Executive Order 13101.

BEES 3.0 runs on Windows 95, 98, 2000, NT, and XP personal computers with a 486 or higher microprocessor, 32 Megabytes or more of RAM, and at least 110 Megabytes of available disk space. **A printer must be installed.** [Download your free copy of BEES now.](#) If you prefer a free BEES 3.0 compact disc and printed manual, place your order through the