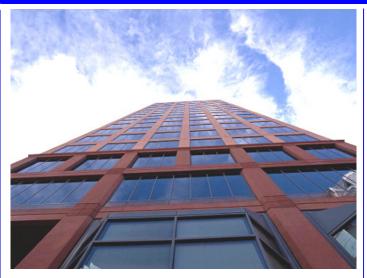
Elite Software

EnergyPro

2700 Arrington Road

College Station, Texas 77845

(800) 648-9523



EnergyPro Overview

EnergyPro is a comprehensive residential and non-residential commercial building energy analysis software package. The software allows for entry of any type of building and for virtually all types of cooling and heating equipment, including variable refrigerant flow (VRF) technology. Along with HVAC operating costs, EnergyPro also calculates miscellaneous building energy uses such as outdoor lighting, domestic hot water, pump power, and more. Daylighting and solar space heating and hot water heating can also be accounted for. There are 14 EnergyPro modules that can be combined in any way desired to meet your building modeling and reporting needs.

The state of California has long been a leader in requiring energy efficient buildings. The California building efficiency requirements were codified into many documents under Title 24. EnergyPro was born from the need for designers to have a simple way of using personal computers to comply with all the special building modeling and reporting required under Title 24. Over the years, the capabilities of EnergyPro have expanded far beyond just meeting Title 24 requirements. Of the 14 modules available for EnergyPro, seven of these are generic in nature and useful to designers all around the world. Even some of the California specific modules such as for prescriptive building envelope, indoor and outdoor lighting analysis are useful to non-California designers.

The NRM7 module combined with the IM1 interface module for a total price of \$1200 is the perfect combination for designers who want to model buildings and comply with both ASHRAE 90.1 and LEED. For residential designers, a popular combination is the IM1 interface module and the RM4 performance module for a total of only \$500. There are no mandatory annual fees required with this software.

DEMONSTRATION VERSION

If you would like to evaluate EnergyPro's 14 modules in further detail, you can read more info and *download free of charge* a demo of EnergyPro from Elite's web site, **www.elitesoft.com**

EnergyPro Features

- Calculates HVAC Operating Costs & Building Energy Usage
- Complies with LEED, ASHRAE 90.1 and Title 24
- Performs 8,760 Hour by Hour Annual Energy Calculations
- Provides Complete Life Cycle Cost Economic Analysis
- Models All Types of Heating and Cooling Systems Including VRF (Variable Refrigerant Flow) Systems
- Allows for All Types of Non-HVAC Process Energy Uses
- Handles Complex Building Designs and Schedules
- Over 1800 Hourly Weather Data Files Provided
- Allows Complex Utility Cost Rate Structures
- Daylighting Analysis Capability
- Accounts for Solar Space Heating & Domestic Water Heating
- Provides Scores of Report Types in PDF Form
- Links with Elite's CHVAC & RHVAC Load Programs
- No Copy Protection Hassles! No Annual Fees!

Calculation Method

EnergyPro has evolved for over 25 years and uses numerous sophisticated calculation techniques for modeling buildings of all types. Commercial buildings and non-residential buildings of all types are primarily calculated based on the procedures from the U.S. Department of Energy software known as DOE 2.1e. Residential buildings are modeled based on procedures developed by the California Energy Commission for use in their pioneering building energy conservation efforts known as Title 24 and explained in the Residential Alternative Calculation Method (ACM) Approval Manual.

Program Input

EnergyPro organizes the building data under an explorer tree diagram in a single window. The building tree can be expanded up and down to expose more or less data as desired. Multiple projects can be open at the same time if need be. All buildings, residential or commercial, simple or complex, are entered through this same data entry system. Whether certain inputs are used or not depend upon what EnergyPro modules have been purchased. Basic building data like roofs, walls, and windows are pertinent to all EnergyPro modules. Other data, such as home loan rates and terms, may only be relevant to one specific module. Both Elite Software's RHVAC and CHVAC load calculation programs can produce project files for use with EnergyPro. This feature eliminates the redundant entry of building data between the load calc software and energy analysis software. Note that additional data (utility rates, schedules, etc.) must still be added once in EnergyPro, but none of the building material and dimension data have to be reentered. This linking of Elite load calc programs with EnergyPro also means that EnergyPro gains the benefit of having data able to come graphically from Elite's Drawing Board program or from other CAD systems that use the gbXML file format such as AutoCAD MEP and Revit. Whether using just one or multiple modules of EnergyPro, the EnergyPro IM1interface module is required.

System Requirements

EnergyPro is a Windows program and will run on any computer with Windows XP or higher including Windows 7 and 8.



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