



How HEATMAP works

Designed for user-friendly access, HEATMAP© for Windows 2000 and XP has pull-down menus and graphical analytical features that simplify data manipulation and allow for comparative analyses of multiple scenarios.

HEATMAP© consist of five (or more) separate seamlessly integrated programs and is designed for use in conjunction with a custom designed user interface.

The HEATMAP© program integrates all components into a single, coordinated system that has been designed to adapt to a variety of needs. HEATMAP© allows the user to graphically interface directly with common GIS drawing files, eliminating the need to manually input distribution system elements (e.g., pipes, consumers, producers) into the network module.

Output results from HEATMAP© analyses are directed to an Excel Spreadsheet allowing the user to utilize built-in graphical displays or to perform further evaluations.

Version 6.x New Features

- **Three Versions Available:** CHP; Standard; & Geothermal.
- **AutoCAD Replaced.** HEATMAP and TERMIS share software that permits automatic model building and maintenance using common GIS data. In conjunction with this feature, HEATMAP is able to interface with most common GIS software so that AutoCAD is no longer an essential element in using HEATMAP.
- **Seamless Integration with TERMIS.** Both HEATMAP & TERMIS can share software files developed by each other and call upon features unique to the other program.
- **New Hydraulic Engine.** HEATMAP has adopted the newly developed hydraulic engine (7FLOW) (recently implemented in Termis) that substantially upgrades the hydraulic analysis process.
- **Enhanced Thermal Storage.** The DOE-2 power plant module in the CHP version of HEATMAP has been enhanced for new thermal storage capability.
- **Enhanced Pump & Valve Capability.** Pump and valve modeling has been greatly enhanced.

HEATMAP®'s Flexibility Can Benefit a Variety of Users

If you're an urban planner, HEATMAP® can...

help you look at the energy and environmental future for your community. By inputting data on buildings in your community, you can find out how implementation of district heating and /or cooling will reduce energy use and air emissions.

If you're a consulting engineer, HEATMAP® can...

become the template that allows you to expedite your preliminary analysis and design. You can spend less time and money on preliminary analysis, increasing the potential for projects to proceed to the final design and implementation stage.

If you're operating an existing CHP or district heating and cooling system, HEATMAP® can...

analyze the cost-effectiveness of system operation and expansion. Plus, it can become your comprehensive customer database. You can sort all of you customer information in HEATMAP® and easily sort by customer or area.

If you're in charge of a large university, office complex, or military base or airport, HEATMAP® can...

help you evaluate new opportunities for CHP district energy or optimize operations, conversions, expansions, or maintenance and repair alternatives of existing systems.

If you're a public or private electric or gas utility, HEATMAP® can...

help you plan wise market strategies.

HEATMAP® is a Collaborative Effort. Principal Sponsors include:

- Washington State University Cooperative Extension Energy Program
- U.S. Department of the Navy
- U.S. Department of the Army
- Public Works and Government Services Canada
- U.S. Department of Defense
- New York State Energy Research and Development of Energy
- Swedish Council for Building Research
- Swedish Trade Office

HEATMAP® Engineering Consultants:

- VBB-Anlaggnig AB, Stockholm, Sweden
- Seven Technologies, Birkerød, Denmark
- Bruce Gordon & Associates, Middleton, California
- Hart Software Services
- Criterion Engineers & Planners, Oregon
- Daningi Inc., Plainsboro, New Jersey
- Ensignt, Portland, Oregon

To Order HEATMAP®

in North America, contact:

Washington State University Cooperative Extension Energy Program, P.O. Box 43165
Olympia, WA 98504-3165
Tel.: (360) 956-2049 or (360) 956-2030
Fax: (360) 236-2030
Email: HEATMAP@energy.wsu.edu

in Europe, contact:

Seven Technologies
Bregnerødvej 94
KD-3640 Birkerød, Denmark
Tel.: 45 45 900-700
Email sales @7t.dk
<http://www.7t.dk>