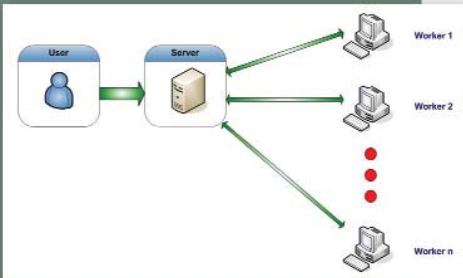


# HIVE Grid

## Supercomputing Solution

Lakes Environmental's distributed computing solution enables you to complete your AERMOD, ISCST3, ISC-PRIME, CALPUFF and other analyses in a fraction of the time it would take on a single machine. In addition, this computing solution allows you to continue using your computer without interruption.

HIVE Grid architecture



HIVE Grid is an intranet system that takes advantage of the unused processing cycles of all your organization's computers and substantially reduces wasted computer processing power.

### The HIVE Grid system consists of three entities:

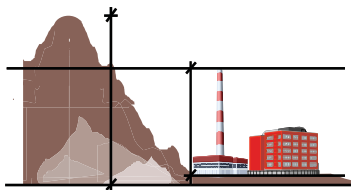
- ▶ **The Submitter:** The Submitter sends jobs to be processed and receives results once the jobs have been completed.
- ▶ **The Worker:** The Worker processes the job, returning the results to the Submitter upon completion.
- ▶ **The Server:** The Server controls how jobs are distributed within the system.

### HIVE Grid Features

- ▶ Compatible with many models, including AERMOD, ISCST3, ISC-PRIME and CALPUFF
- ▶ Can be fully integrated into ISC-AERMOD View, allowing individual projects to be split into pieces for maximum processing efficiency
- ▶ No special hardware or server is necessary - only a normal network is required

# Screen View

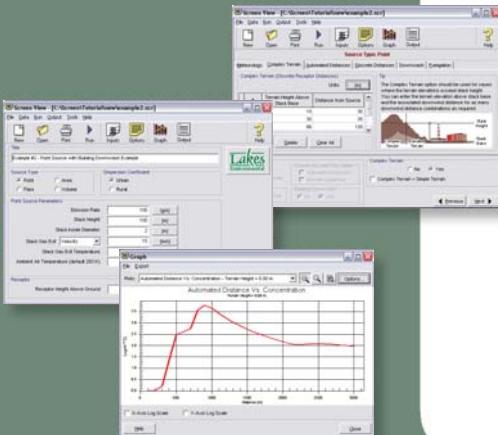
## Screening Level Air Dispersion Model



Screen View allows you to obtain worst-case ground-level pollutant concentration estimates for a single source.

### Model Applications

- ▶ Air quality screening analysis
- ▶ Worst-case estimates of air quality impacts for a single source



### Model Features

- ▶ Estimates maximum ground-level concentrations
- ▶ Determines distance to the maximum concentrations
- ▶ Supports point, area, flare, and volume sources
- ▶ Analyses can be carried out on a flat, simple elevated, or complex terrain
- ▶ Automated or user specified receptors
- ▶ Calculates the effects of building downwash and cavity concentrations
- ▶ Examines a full range of meteorological conditions

### Interface Features

- ▶ Intuitive data entry
- ▶ Checks for project completeness
- ▶ Distance vs. Concentration plots
- ▶ Full support for the U.S. EPA SCREEN3 model