

SynerGEE Gas Automated Design Module



Network Efficiency

SynerGEE® Gas's Automated Design Module (ADM) enables you to assess pipe size options for your model with specified loading conditions, material cost, installation cost and location.

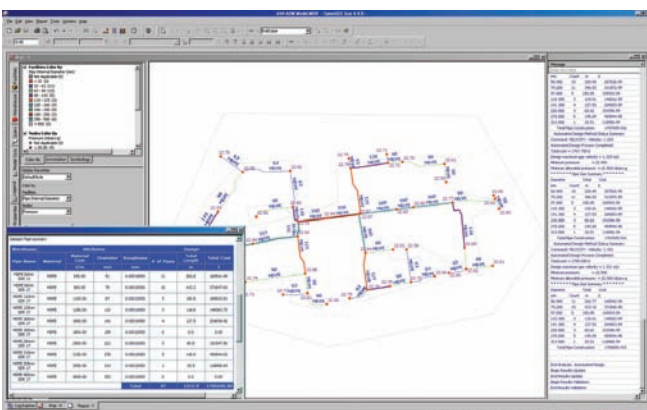
ADM is designed to calculate and report the lowest possible pipe diameter capable of transporting sufficient quantities of gas to required delivery points safely and reliably. The module is particularly helpful when designing new systems or expanding and reconstructing existing networks.

Piping Solutions

ADM operates in single-pressure level networks on data and criteria you provide. Requirements include:

- Current and possible piping configurations
- Load distribution including the design criteria of maximum and minimum allowable velocity for the decision pipes
- Pipe installation parameters including internal diameter, material type and installation cost per unit length

Using this data and criteria, ADM determines which set of pipes most economically satisfy your specified pressure and velocity constraints. The program logic selects pipe sizes so that a nearly uniform fluid flowing velocity is realized throughout the system.



ADM Reporting

As you prepare for an ADM automated design run, you can select the level of detail in the results report produced at the conclusion of the run. You can specify one of the following:

- Full trail detail report displays a complete record of the design session recording each ADM procedure and displays it in chronological order as it occurs. A subreport of the full trail report is the pipe change report, which displays all of the pipes whose diameters changed during the design session.
- Velocity trail detail displays the best design solution for each maximum velocity ADM used, summarizing the best design scenarios.
- No report only displays the final design solution.

Benefits

ADM can provide many benefits to your organization, such as:

- Determining a low cost design for new service areas or major mains replacement efforts
- Quickly analyzing system design and avoiding over-design of your system
- Clearly identifying the incremental cost by designing to a higher minimum pressure

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