

A picture is worth a thousand words

SynerGEE can help you get more value from your enterprise systems no matter what your objective.

In addition to simplifying the model building process through its polyline conversion capabilities, SynerGEE incorporates a variety of basemapping supported formats, including most GIS and CAD forms as well as standard BMP, JPG or TIF files.

SynerGEE recognizes basemap layers that you can turn on or off individually as needed to show the essential geographic detail for your models. SynerGEE's fully customizable workspace, tailored symbols, expanded annotation, unlimited label styles and color-by capabilities provide extensive information in a straightforward, user-friendly style.

The GL Advantage

GL's comprehensive knowledge and experience in the gas industry is unmatched around the world. Not only do we supply you with software products tailored to your individual needs, but we also offer comprehensive services relating to all aspects of managing, maintaining and investing in a delivery network.

Obsessive 24/7 Technical Support

When you choose GL, you're not just getting the world's best network analysis capability, you're also getting the most obsessive technical support in the industry. Our team of professional engineers is committed to delivering world-class support, training and education. Rest assured that our 24/7 technical support team is ready to help you get the most out of your software.

Strong Integration and Partnerships

SynerGEE is unrivaled in its configurability and flexibility, as well as its ability to integrate with other GL products and GIS systems. GL proudly partners with ESRI®, GE Energy™ and Miner & Miner™, as well as other GIS and technology leaders to bring you the most powerful and comprehensive solutions available.

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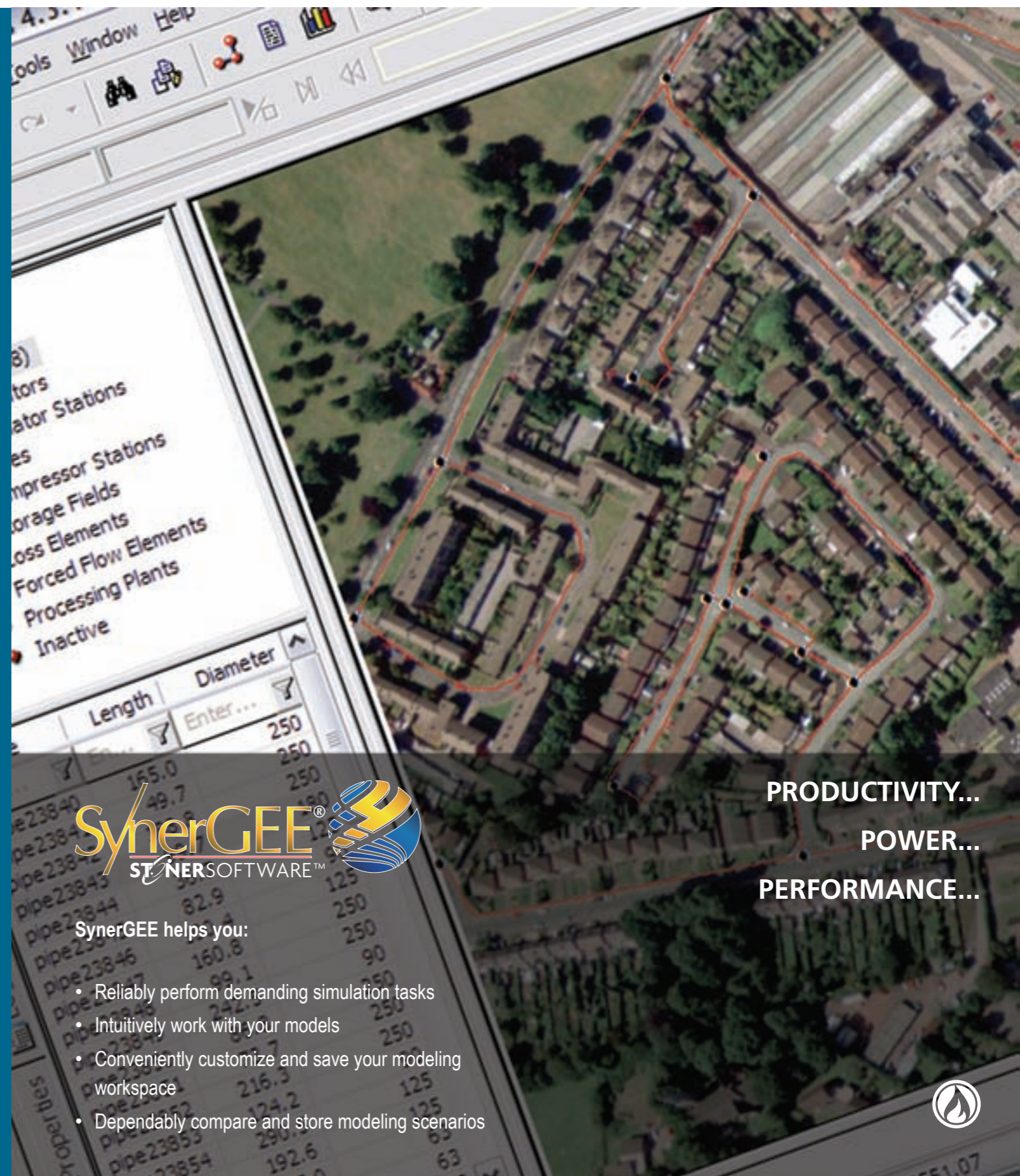
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SynerGEE helps you:

- Reliably perform demanding simulation tasks
- Intuitively work with your models
- Conveniently customize and save your modeling workspace
- Dependably compare and store modeling scenarios

PRODUCTIVITY...
POWER...
PERFORMANCE...



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Practical meets functional

System planning is an intense and complicated process. You need to be able to anticipate and apply variables over short- and long-term planning periods. Simulation is aimed at taking the guesswork out of system planning, and for years Germanischer Lloyd (GL) has prided itself on exceeding your simulation expectations using the world's most powerful steady-state modelling engine. SynerGEE™ Gas offers enhanced functionality and updated modules that let you generate fast, accurate simulation results. SynerGEE provides an efficient steady-state solver that offers robust and reliable volumetric, thermal and compositional balance capabilities. SynerGEE lets you model large, complex integrated multi pressure level systems and gives you full control over gas constraints (gravity, heating value and viscosity), equations of state, friction factor calculations and heat transfer constants.

Putting productivity into your workflow

When it comes to complicated system planning and analysis, productivity can be a fleeting pursuit. You want reliable results, but you cringe at the effort it takes to get them. SynerGEE accommodates your daily demands by putting a straightforward and simplistic, yet comprehensive modeling interface at your command.

Features at your fingertips

SynerGEE incorporates robust functionality into your daily routine. From our user-friendly and intuitive model explorer to enhanced analysis tools, SynerGEE helps you generate fast, accurate results.



Basemap Conversion Tools

SynerGEE comes with a basemap conversion tool that allows you to import external geographic information system (GIS) source data from point and polyline layers into SynerGEE pipe and non-pipe facilities and corresponding nodes to let you not only view the basemap behind your model, but also integrate the source data into SynerGEE.



The basemap converter lets you convert multiple layers at once rather than adding each layer individually. You can import basemap attribute field values and save conversion settings and mappings for re-use. SynerGEE's drag-and-drop functionality makes modeling from your GIS a snap by letting you insert imported basemap facilities in line on your model.

Station Modeling

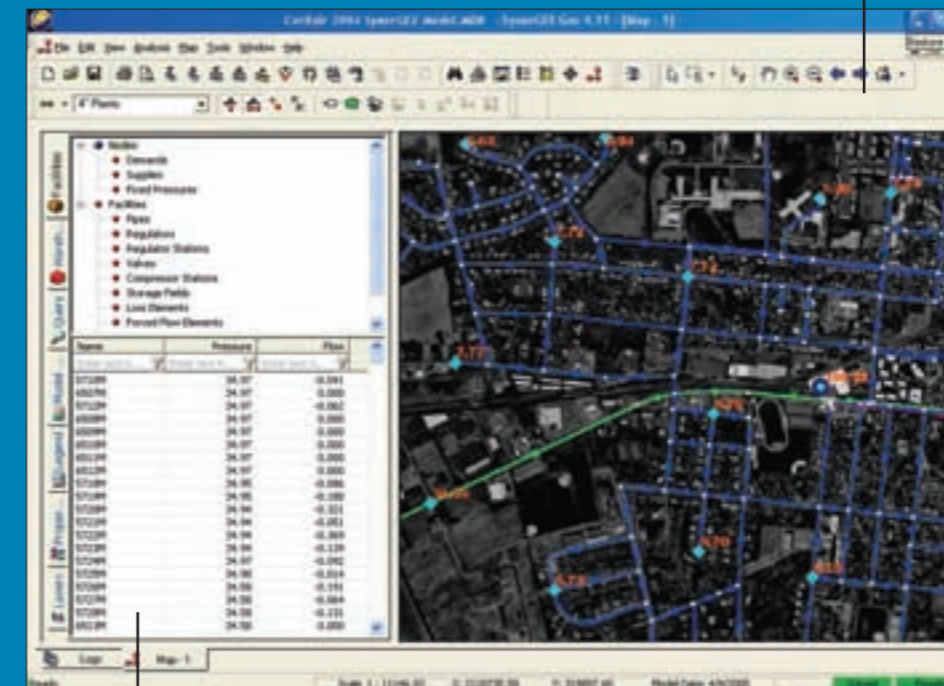
SynerGEE station modeling allows you to build compressor and regulator stations from the ground up. When building regulator stations, you can define a complex combination of various types of series and parallel regulators and incorporate immediate set-points, monitors and operators. Using SynerGEE's intuitive graphical interface, you can drag and drop station modeling components directly into your model for fast and accurate editing. Enhanced compressor assemblies, individual or shared paths or an entire station. Loss values for all devices comprising the station can be included for greater model precision.

You can also assign recycle lines to match your field conditions on an individual compressor assembly, on a path within the station or on the station as a whole. SynerGEE gives you complete control of recycle beginning and end points.

Facility Service

States Distribution network simulation is ideal for planning "what if" scenarios. SynerGEE's facility service state feature allows you to assign a service state—enabled, disabled, proposed or retired—to an individual or group of facilities within your model. You can turn facilities on or off to model temporary or proposed pipe operations, such as subdivision planning or retiring abandoned pipelines. Assign a service date for a facility's proposed or retired status, and SynerGEE will apply the function automatically on that date based upon the model date specified for the analysis.

Productivity, Power and Performance



- A Integrate background images and data into your model. SynerGEE supports geodatabases, Shape files, CAD files and ArcInfo™ coverages. You can also convert layers to model data using the basemap conversion tools.
- B The Facilities tab displays model data in spreadsheet format giving you the ability to filter, sort, create partial chapters and zoom to features in the model.
- C SynerGEE helps make drawing models a drag...a drag-and-drop, that is. With its 'smart GUI' edit mode you can drag-and-drop pipes and watch associated nodes go along for the ride.

Robust modules that meet expanding client needs

Customer Management Module (CMM)

CMM provides a link between SynerGEE and your customer information system (CIS) to establish a relationship among weather, individual customer load and customer location. Its advanced functionality offers automated customer assignment to reduce your modeling efforts, data modeling tools for accurate system modeling and custom SynerGEE reporting for system planning designs. CMM also features weather zones that allow you to store customers from different weather zones in the same database and multiple weather effectors that let you calculate effective degree days based on weather effectors such as wind speed or cloud cover.

Optimization Module

SynerGEE also offers the Optimization Module, a convenient combination of the Energy minimization Module (EMM) and Economic Transport Module (ETM) of SynerGEE 3.x. Geared toward gas transmission pipelines, Optimization helps you determine optimum compressor and regulator operations to minimize fuel requirements or total fuel cost while maximizing profitability and total system capacity.

SynerGEE Model Builder

The SynerGEE Model Builder lets you import, filter and query data from multiple external GIS sources, including personal and enterprise geodatabases for use in your models. Using a simple process, Model Builder converts GIS point data into SynerGEE facilities including regulator stations, compressor stations and valves, and lets you map feature classes to SynerGEE facility data. You can also save attributes and configurations so you can rebuild your model weekly, monthly or any time you choose. Your GIS dataset can be supplemented by SynerGEE database values to maintain boundary condition data, demands, supply data, polygons and other model-specific information.

Area Isolation Module (AIM)

AIM allows you to choose an area to isolate for emergency planning, maintenance or other scenarios. You can also generate detailed analysis and reports of the effects of an isolated area on the remaining network pressure and flow after an area has been isolated or excluded. AIM's enhanced functionality makes modeling easy by integrating isolation data into the model database and allowing you to place isolation valves anywhere along a pipe, not just at the connecting ends. You can also select hydraulic regulating facilities and valves for isolation as well as pinch points.