



Risk Management
Commodities Trading
Physical Logistics
Regulatory Compliance

Generation 8.0

Fully integrated solution to trade, manage and dispatch supply from each generation unit most economically

Generation Companies (GENCOs) are increasingly concerned about managing asset risks and how to best manage and dispatch most economically with single and, in many cases, multiple unit assets. The Generation component includes an economic dispatch modeling tool to guide the user in developing their generation dispatch and scheduling strategies. The goal is to optimize the use of generating and demand response assets against usage and outage trends in regional markets. The Generation component assists market participants in determining the most profitable option to manage their assets given the market requirements and forecasted conditions.

Product Overview

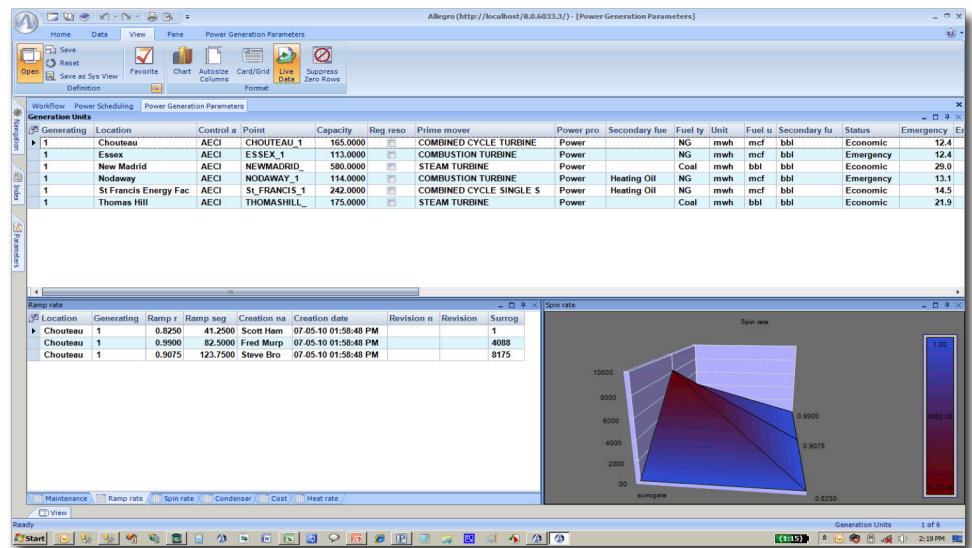
The Allegro Generation 8.0 component manages not only the specific data required to submit information to market operators, but also it provides decision support tools including an Economic Dispatch model to perform simulation, run “what-if” scenarios and analysis to make the most optimal trade decisions. The model utilizes user-defined operating constraints, including fuel cost and supply position. This detailed view enables dispatchers to schedule resources at the lowest possible cost. Also, if a customer chooses, the Allegro solution has the flexibility to fully integrate an independent or third-party dispatch model into the Generation 8.0 component.

Key Features	Key Benefits
<p>Capture all relevant information for plants and generating unit resources by: Default operating parameters, Energy ramp rates, Spinning reserve operating ranges, Regulation operating ranges, Generation costs, ISO Schedule data</p>	<ul style="list-style-type: none"> • Quick and flexible process to capture and manage all required generating units, whether the parameters are defaulted or client proprietary, to create an economic dispatch plan and schedule your assets most efficiently.
<p>Create generation positions by: Executing the native Economic Dispatch tool provided with the Generation component, Importing the results from an external Dispatch Optimization tool</p>	<ul style="list-style-type: none"> • Tremendous flexibility to use either the Economic Dispatch model within Allegro, or to create a customized connectivity with a third-party dispatch model, each of which enable greater transparency and accurate position and valuation reporting
<p>Calculate short fuel position associated with generating power supply to match or satisfy short positions</p>	<ul style="list-style-type: none"> • Provides a simple interactive tool to manage and match one or multiple generation units output including the calculation of short fuel positions with the best economic dispatch option, calculate the net fuel quantity required to generate the dispatch and be the system of record for all positions, both long generation and the required short fuel • Easy to query desired generation by control area and point in one simple view
<p>Ability to manage unit contingent trades by associating generation positions to a specific generating unit</p>	<ul style="list-style-type: none"> • Provides the flexibility to allow clients to manage sophisticated trades with the option to link the trade to a unit specific supply

Business Case

Generation Asset management and dispatching decisions can be a complicated process to manage without the appropriate tools as it requires a tremendous amount of data and very specific generation unit characteristics. Managers need to capture many required parameters, including energy ramp rates, spinning reserve operating ranges, regulation operating ranges, generation costs, ISO schedule data and characteristics for each specific unit. The key benefit of the Allegro Generation component is the integrated solution and sophisticated economic dispatch modeling by incorporating unit specific characteristics. This integration is imperative to provide accurate results, quality assessment and the ability to view accurate positions needed to perform the most efficient and economical dispatch decision of generation assets.

Component View



Generation component captures, integrates and optimizes generation assets with the best optimal economic option

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