



Risk Management
Commodities Trading
Physical Logistics
Regulatory Compliance

Petroleum Blending 8.1

Comprehensive and flexible liquids blending functionality

Allegro's Petroleum Blending 8.1 component provides comprehensive and flexible functionality for the creation of blending plans for refined products, creating and maintaining run-out schedules, blending heavy crude products and capturing all associated fees.

The component provides the ability to define blending plans for specific locations and blending recipes, and the ability to develop run-out schedules, allowing users to forecast blend processes, anticipate market requirements and create what-if scenarios. This functionality includes the ability to capture product transport schedules and create and maintain tank transfers to calculate and value daily tank inventories. Additionally, the component can determine the percentage and quantity required to blend heavy crude oil to lighter densities to meet pipeline carrier maximum density standards.

Features	Benefits
<p>Create petroleum blending plans</p> <ul style="list-style-type: none"> Define product blends for a specific location, along with the associated tanks, product inputs and outputs, and factors for the blend recipe 	Provides users the flexibility to create custom-tailored blending plans specific to the needs of their locations
<p>Create Petroleum Run-out schedules</p> <ul style="list-style-type: none"> Capture product transport schedules Create and maintain daily run-out schedules Create and maintain tank transfers Calculate and value daily tank inventories 	Users are able to forecast anticipated market requirements, plan blending processes to meet those requirements, and create what-if scenarios to optimize those processes
<p>Capture Petroleum Blend Actuals</p> <ul style="list-style-type: none"> Capture actual production blend and tank transfer quantities and qualities Un-allocate actual blend and transfer quantities Add measurement-specific fees 	The ability to capture actual quantities and fees provides accurate, real-time data for calculations and reporting
<p>Heavy Crude Blending</p> <ul style="list-style-type: none"> Define heavy crude blend product for a specific location and carrier Calculate diluents requirements for the blend Create the heavy crude blend of the diluents and the dry volume Maintaining the heavy crude blend Capture actual blend quantities Capture blend fees 	Provides users the flexibility to create the optimum heavy crude blends needed to meet the requirements and standards for specific locations and carriers

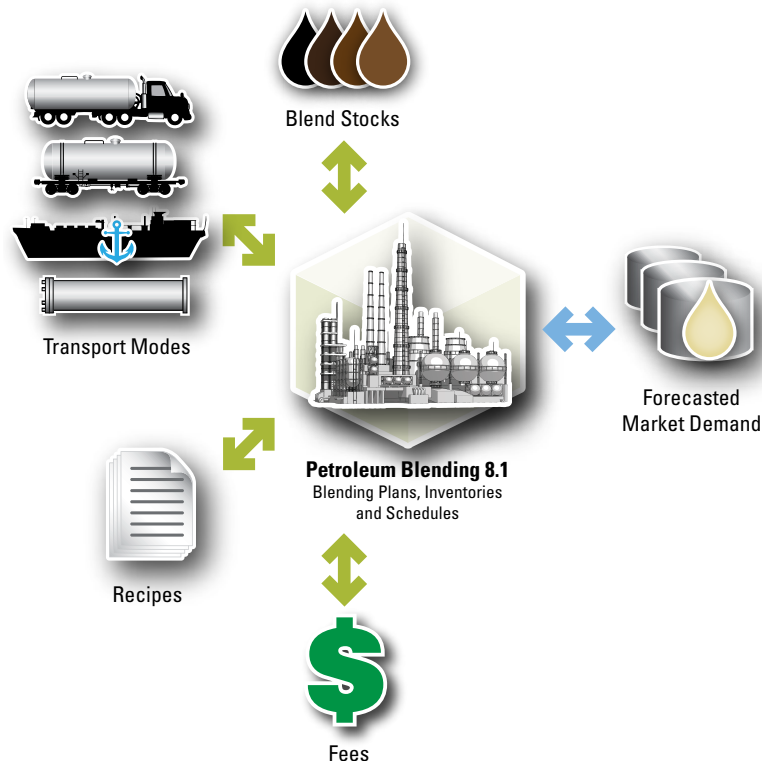
Business Case

In managing daily blending operations, operators deal with a complex set of variables to maintain optimum inventories of blendstocks and blended products. These include managing inventory levels within tank capacity levels, forecasting plant production of blendstocks, forecasting sales volumes, and scheduling product purchases and transfers.

The Petroleum Blending 8.1 component allows operators to create a flexible run-out schedule to evaluate daily inventories of blendstocks and blended products by tank. Users can update the run-out schedule to forecast plant production, product receipts and deliveries, tank-to-tank transfers, planned blending schedules, and projected sales. Users can also value tank inventories and re-calculate these values as product moves into and out of the tank.

Blending processes can be defined for specific blend requirements by defining a recipe of blend inputs and outputs. Blending can also occur via tank-to-tank transfer. The blend processes update the run-out schedule to allow users to evaluate tank inventories, anticipate product outages and overages and take corrective action.

For blending and transporting heavy crude oil, the component provides operators with the ability to create the optimum blend of heavy crude and diluents by location and pipeline. The component calculates the diluent quantity required to meet the pipeline's maximum density standards, as well as the loss, shrinkage and final blend quantity.

Process Flow

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