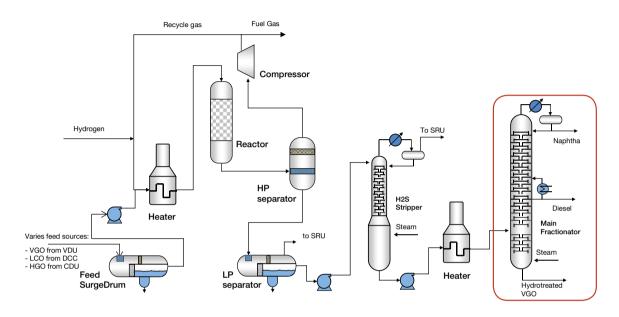


## Beyond the column: Sulzer ESR

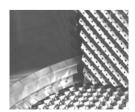




High efficiency UFMPlus™ trays for overflash section and side stripper

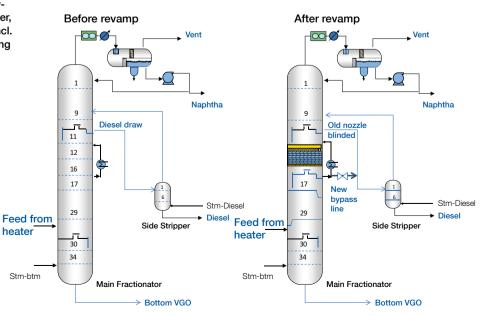
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New bypass line between diesel drawoff line to side stripper, new bypass valve, incl. update of P&ID, piping isometrics and pipe stress analysis



High efficiency Mellapak™ for diesel pumparound

Goal	Achievements
Increase yield	Yield increased > 2.65 wt% of feed basis
Save energy	Minimized top duty.  Maximized P/A steam generation.
Operation flexibility	Allowed higher AGO/VGO feed ratio to increase the diesel yield



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