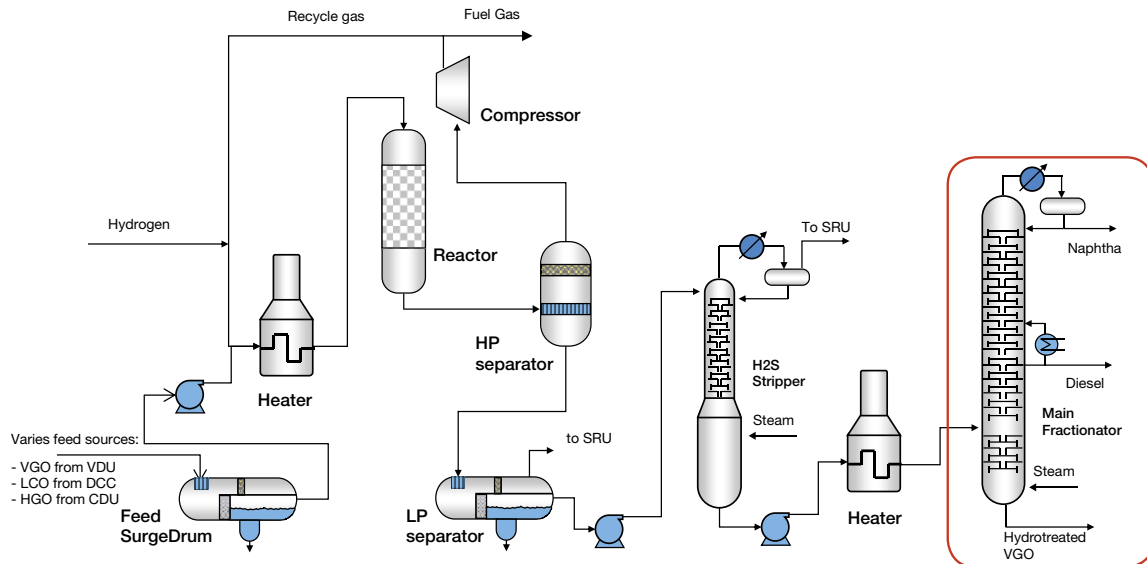
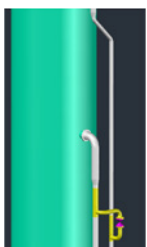


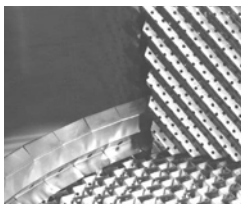
Beyond the column: Sulzer ESR



High efficiency UFMPPlus™ trays for overflash section and side stripper



New bypass line between diesel draw-off 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

