
Question 38: What design modifications, such as pre-reforming and ATR (Autothermal Reforming), do you considered for greater feedstock flexibility, higher efficiency and capacity debottlenecking?

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We have used pre-reforming to provide feed flexibility especially for feed stocks that are liquid such as naphtha and when co-processed or as an alternate to feeds such as natural gas/ LPG. Pre-reformers can provide for higher efficiencies depending on the relative value of fuel and steam. Also, efficiencies can be improved through overall plant design, such as by use of Medium Temperature Shift converter in a flow scheme with pre-reformer.

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