

Internal Rate of Return for GTL and GTE

Sensitivity Factors

IRR of Synfuels Process reflected in

Gas Price

Cost of Feed Gas for Making Product

Gas Quality

Carbon Content of the Gas on a Volume Basis

Plant Size

10 MMSCFD to 500 MMSCFD

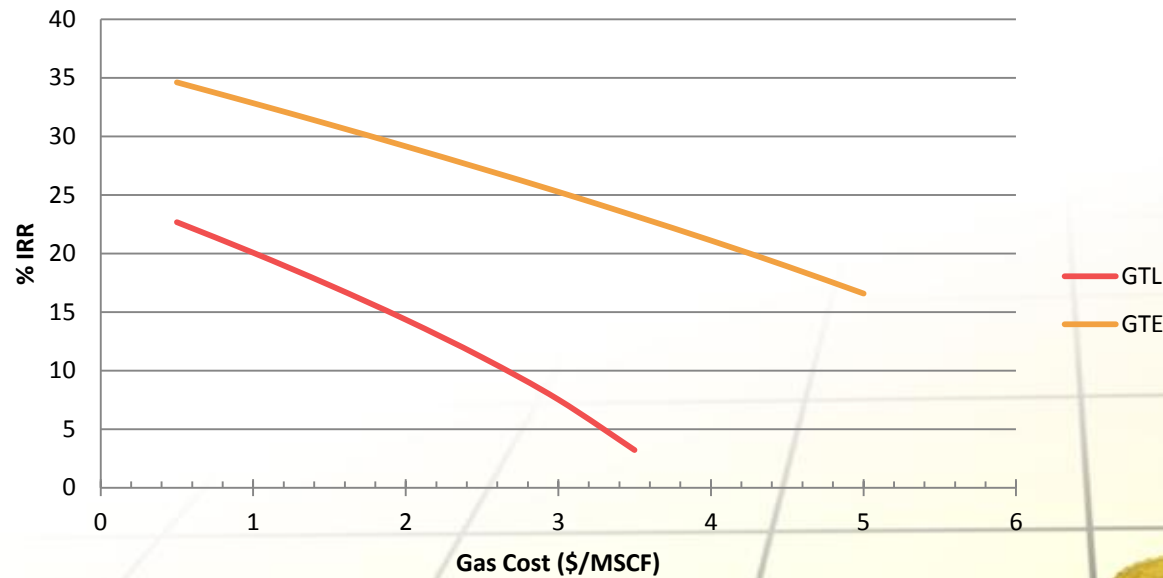
Product Value

Sales Price of Product



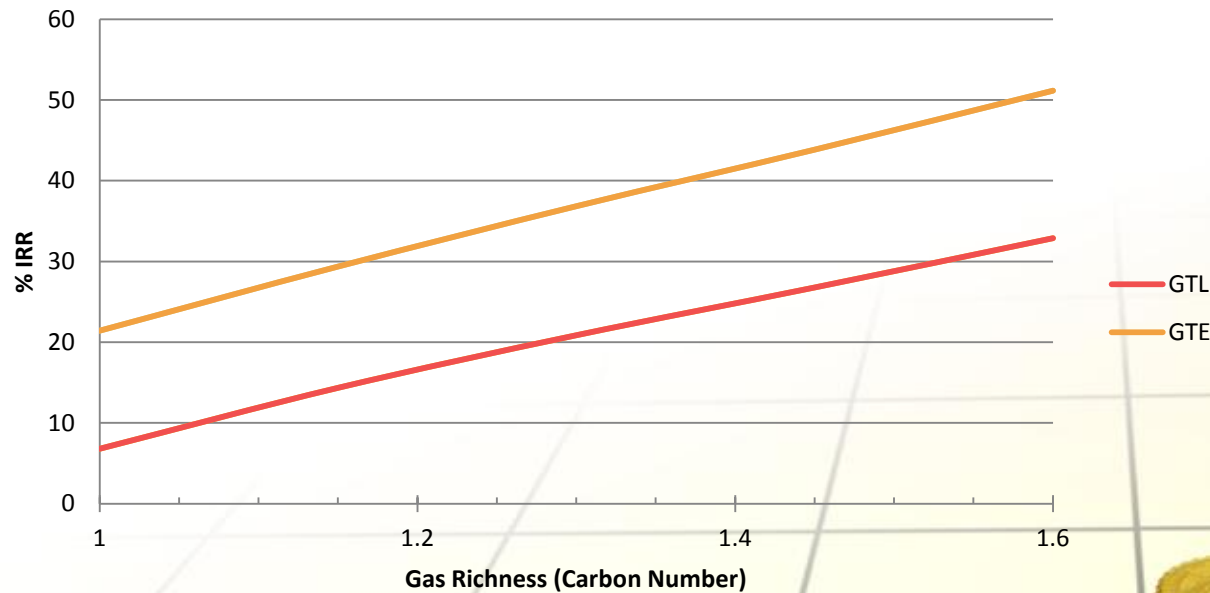
Effect of Gas Price on IRR of GTL and GTE

%IRR vs Gas Cost



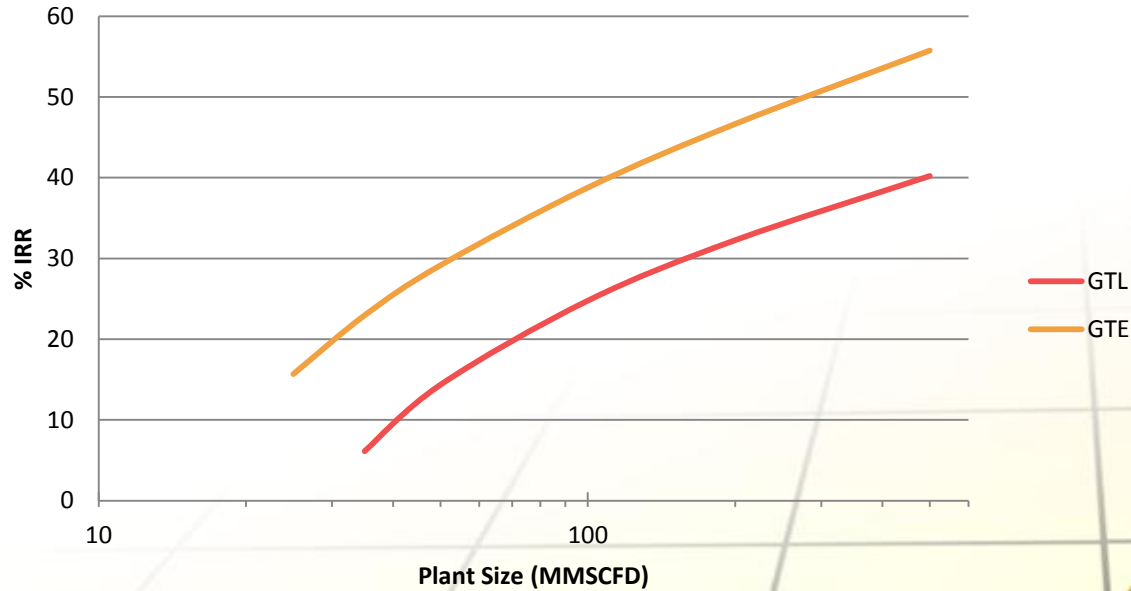
Effect of Gas Quality on IRR of GTL and GTE

% IRR vs Gas Richness



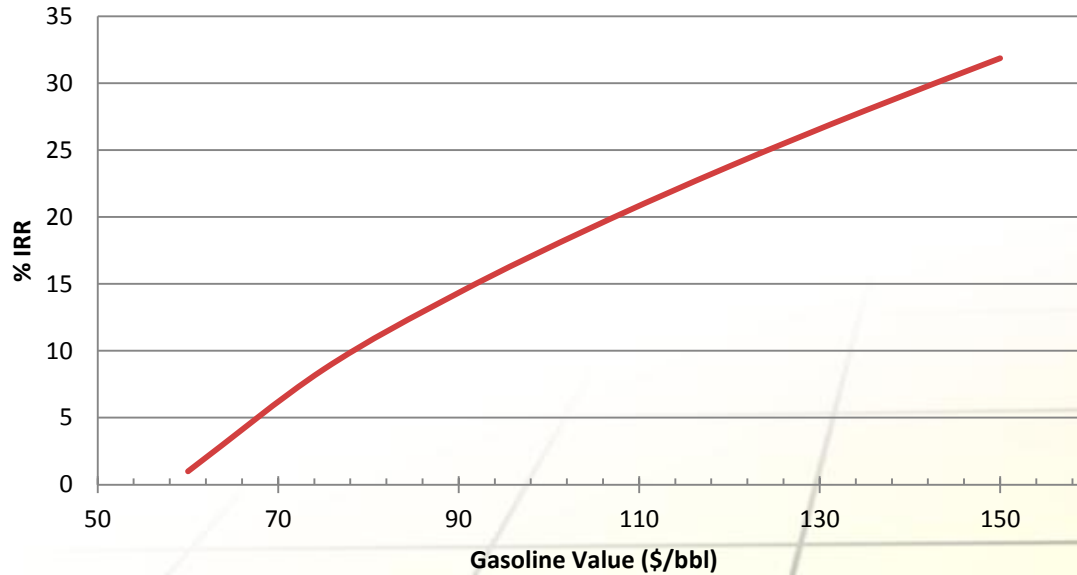
Effect of Plant Size on IRR of GTL and GTE

%IRR vs Plant Size



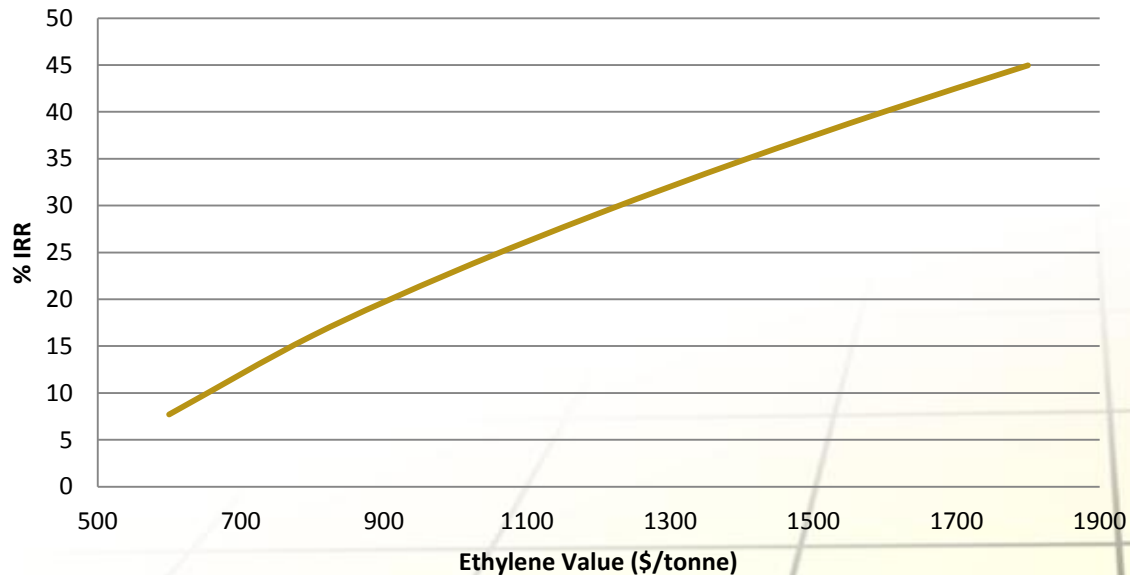
Effect of Product Value on IRR of GTL

% IRR vs Gasoline Value



Effect of Product Value on IRR of GTE

% IRR vs Ethylene Value



IRR Calculations were Based on the Following unless Intentionally Varied

Electricity is self produced

License fee set at \$5 million

FEL1 package delivery is 2.5 percent of capital

Project life is 20 years

On stream factor is 95%

Construction period is 3 years

Plant Size is 50 MMSCFD

Product value is \$90/bbl for Gasoline blendstock

Gas Quality CN=1.15 (85% C1, 9% C2, 4% C3)

Product value is \$1200/tonne for ethylene

Gas Cost is \$2/MSCF



Opportunity

Low Value Natural Gas can be Transformed into High Value Products Producing Excellent Returns for the Owner/Investor

The Richer the Gas, the Bigger the Plant, the better the Return

