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

Gas Cost ($/MSCF)

%IRR

GTL

GTE
Effect of Gas Quality on IRR of GTL and GTE

% IRR vs Gas Richness

- **GTL**
- **GTE**

Gas Richness (Carbon Number)
Effect of Plant Size on IRR of GTL and GTE

%IRR vs Plant Size

- GTL
- GTE

Plant Size (MMSCFD)

% IRR

0 10 20 30 40 50 60

0 10 20 30 40 50 60 100
Effect of Product Value on IRR of GTL

% IRR vs Gasoline Value

- Gasoline Value ($/bbl)
- % IRR
Effect of Product Value on IRR of GTE

% IRR vs Ethylene Value

- % IRR vs Ethylene Value
- Ethylene Value ($/tonne)
- % IRR
- 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50
- 500, 700, 900, 1100, 1300, 1500, 1700, 1900

SYN FUELS INTERNATIONAL, INC.
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