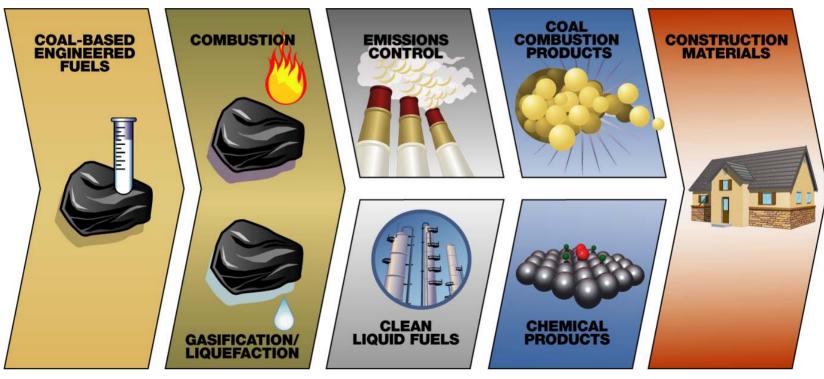


James A. Lepinski
Vice President
Headwaters Incorporated
U.S.-India Coal Working Group Meeting
Washington, D.C.
November 18, 2005

2005

Headwaters at a Glance

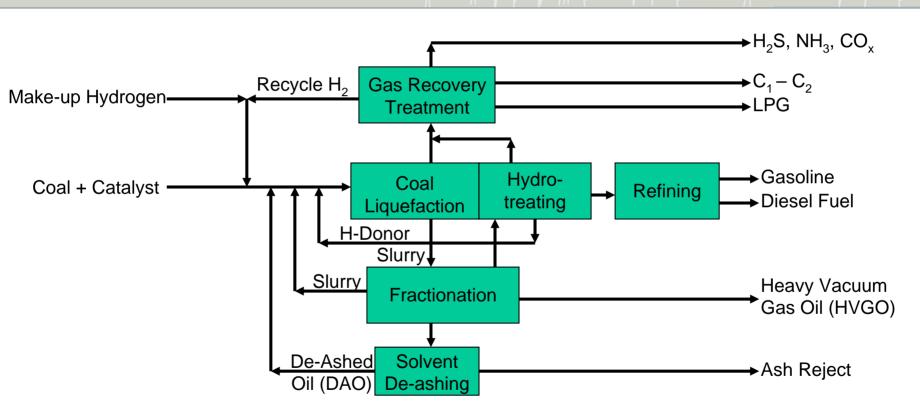
Coal Value Chain



Coal Liquefaction Technologies

- Direct Coal Liquefaction (DCL)
- Indirect Coal Liquefaction (ICL)
- Hybrid Coal Liquefaction (DCL/ICL)

Direct Coal Liquefaction Process



Direct Coal Liquefaction Plants





Lawrenceville, NJ 30 bpd

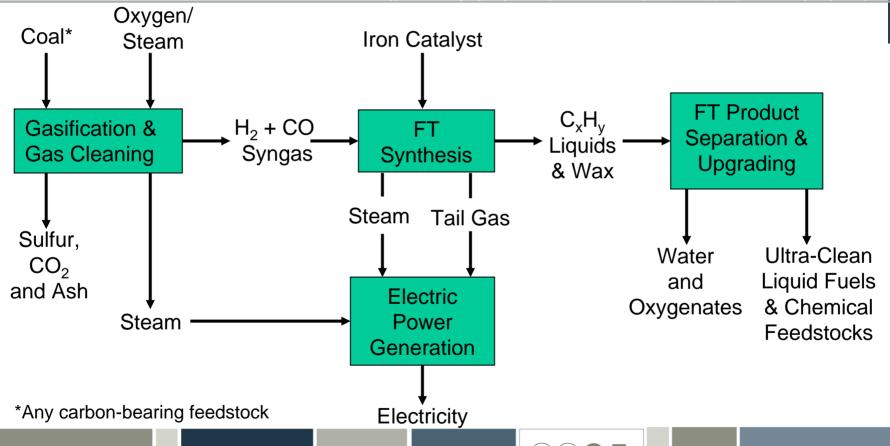


Catlettsburg, KY 1800 bpd



Inner Mongolia, China 17,000 bpd

Indirect Coal Liquefaction Process

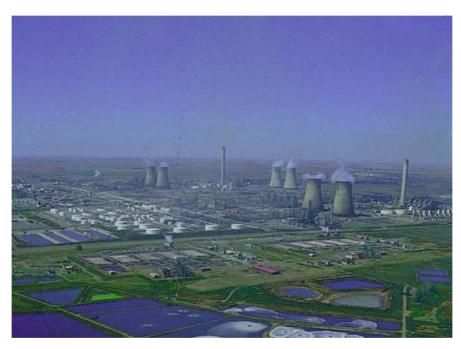


2005

Indirect Coal Liquefaction Plant



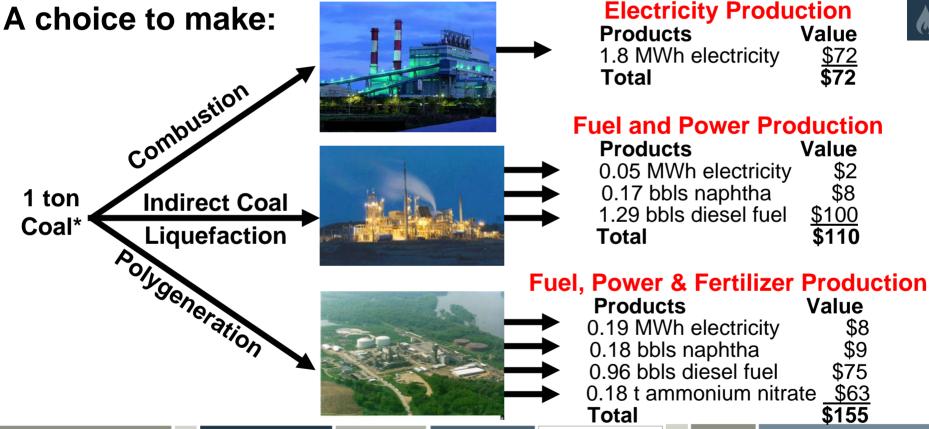
Brownsville, TX 7,000 bpd GTL Plant



Secunda, South Africa 135,000 bpd

2005

Maximizing the Value of Coal



2005

Comparison of DCL and ICL Economics (Based on Sub-bituminous Coal at \$1/mm BTU)

For discussion purposes only.

| | Direct | Indirect |
|---|------------------------|----------|
| Capex for 50,000 bpd plant (\$billion)* | 3.3 | 3.3 |
| Coal required for 50,000 bpd (stpd as rcvd) | 23,000 | 32,000 |
| Coal feedstock cost (\$/bbl) | ock cost (\$/bbl) 8 11 | |
| Opex excluding coal (\$/bbl) | 17 | 12 |
| Return on investment @ 15% (\$/bbl)** | 30 | 30 |
| Production cost including 15% ROI (\$/bbl) | 55 | 53 |
| Crude oil equivalent (\$/bbl) | 41 | 40 |

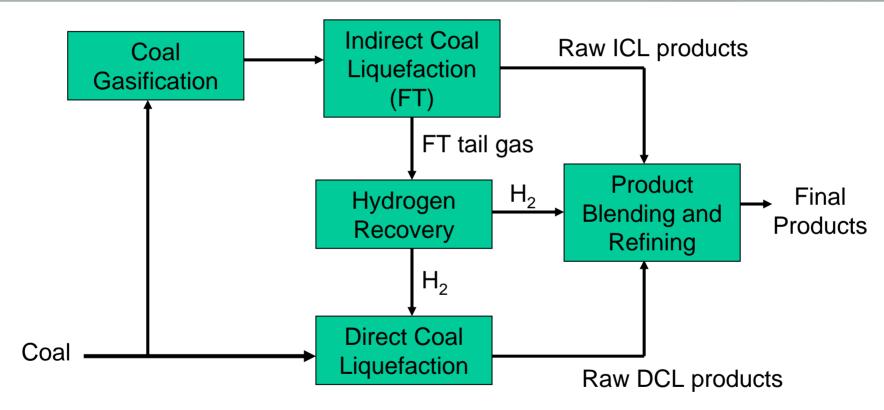
^{*} U.S. location. **100% equity basis

2005

Comparison of DCL and ICL Final Products

| | Direct | Indirect |
|--------------------------|---------------------------|---------------------------|
| Distillable product mix | 65% diesel 35% naphtha | 80% diesel 20% naphtha |
| Diesel cetane | 42-47 | 70-75 |
| Diesel sulfur | <5 ppm | <1 ppm |
| Diesel aromatics | 4.8% | <4% |
| Diesel specific gravity | 0.865 | 0.780 |
| Naphtha octane (RON) | >100 | 45-75 |
| Naphtha sulfur | <0.5 ppm | Nil |
| Naphtha aromatics | 5% | 2% |
| Naphtha specific gravity | 0.764 | 0.673 |

Hybrid DCL/ICL Plant Concept





2005