

Day 1 Report—Breakout Group: Thermochem Group B

Technology Areas of Interest to the Group:

- Pyrolysis + Catalysis
- Gasification
- Other – Hybrid processes, ethanol-to-gasoline, APR

Priority Barriers:

- Plant Integration and Reliability/Operability of Operating Unit (20 Dots)
- Feedstock Handling (15)
- Catalyst Development (11)
- Gas Clean-up (10) – Tar Handling, Ultra-Hot Syngas Filtration, etc.
- Economies of Scale (8)

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Key Reflections:

- Feedstock handling is a much larger issue than realized by individual participants
 - Getting the feedstocks into the reactor is surprisingly difficult
 - Wood is different from grasses, which is different from corn stover...
- Process integration is really important – known unknowns and unknown unknowns which can only be found when scaling up
- Feedstock handling is a little misleading – actually much more than just using feedstock. More appropriate term is Feedstock Management
 - Feedstock aggregation, Seasonal differences vs mixing
- Hydrogen
 - How will it be supplied?
 - Some make their own, where to supply from?
 - How to Source? From natural gas?