Co-gasification Demonstration System
Lab-Scale Evaluation Testing Rigs for Methane Reforming, Gasification
Lab-Scale Evaluation Testing Rigs for Hg adsorbent
Setup Picture of 1” Lab-Scale Evaluation Testing Rigs for Reforming, Gasification and Hg adsorbent

Fixed-bed test rig on Char Characterization

Fluidized-bed Reforming pyrolyzer and gasifier

Hg testing rig on char characterization
Instrumentation for Sample Characterization

Characterization of Synthesis Gas

1. IMR gasification gas analyzer  
   (H₂S, HCl,....)

2. GC (H₂, CO, O₂, CO₂, N₂)

3. GC-MS

Characterization of PAH (Liquid)

4. Leeman Unique LC/MS

5. Rotavapor & Nitrogen Evaporator
Characterization of Solid (Char and fly ash)

6. TG or SDT for characterization of char reactivity

7. PY-GC-MS

8. Chemisorp

9. BET surface characterization

10. Leeman ICP-MS for determination of trace metals