MODEL MULTIPLE STYLES OF GASIFIERS: COAL - BIOMASS - MULTI-FUEL
Fluidized-Bed • Transport • Entrained-Flow

Model how your Gasifier will operate

• Fluidization characteristics
• Thermal profiles (hot/cold spots, axial/radial profiles)
• Chemical reactions (outlet composition, local/global)
• Particle size changes (shrinking or swelling)
• Syngas composition and yield

Optimize Gasifier design and operation, reduce the risk of problems and increase reliability

• Scale-up to a commercial size operating unit
• Ensure proper mixing of gases and particles
• Design spargers, feeds, heaters, cyclones, diplegs
• Minimize ‘fines’ blowover and particle segregation
• Reduce erosion / extend lifecycle
• Maximize conversion and reduce emissions