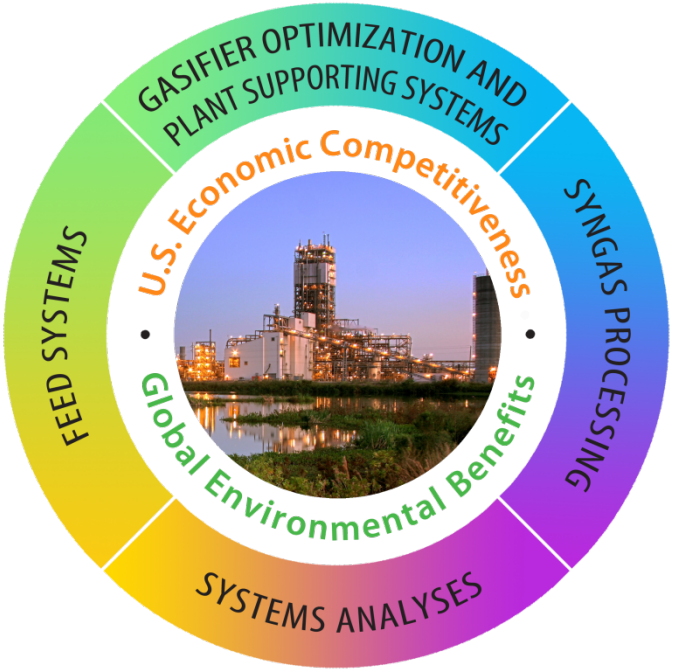
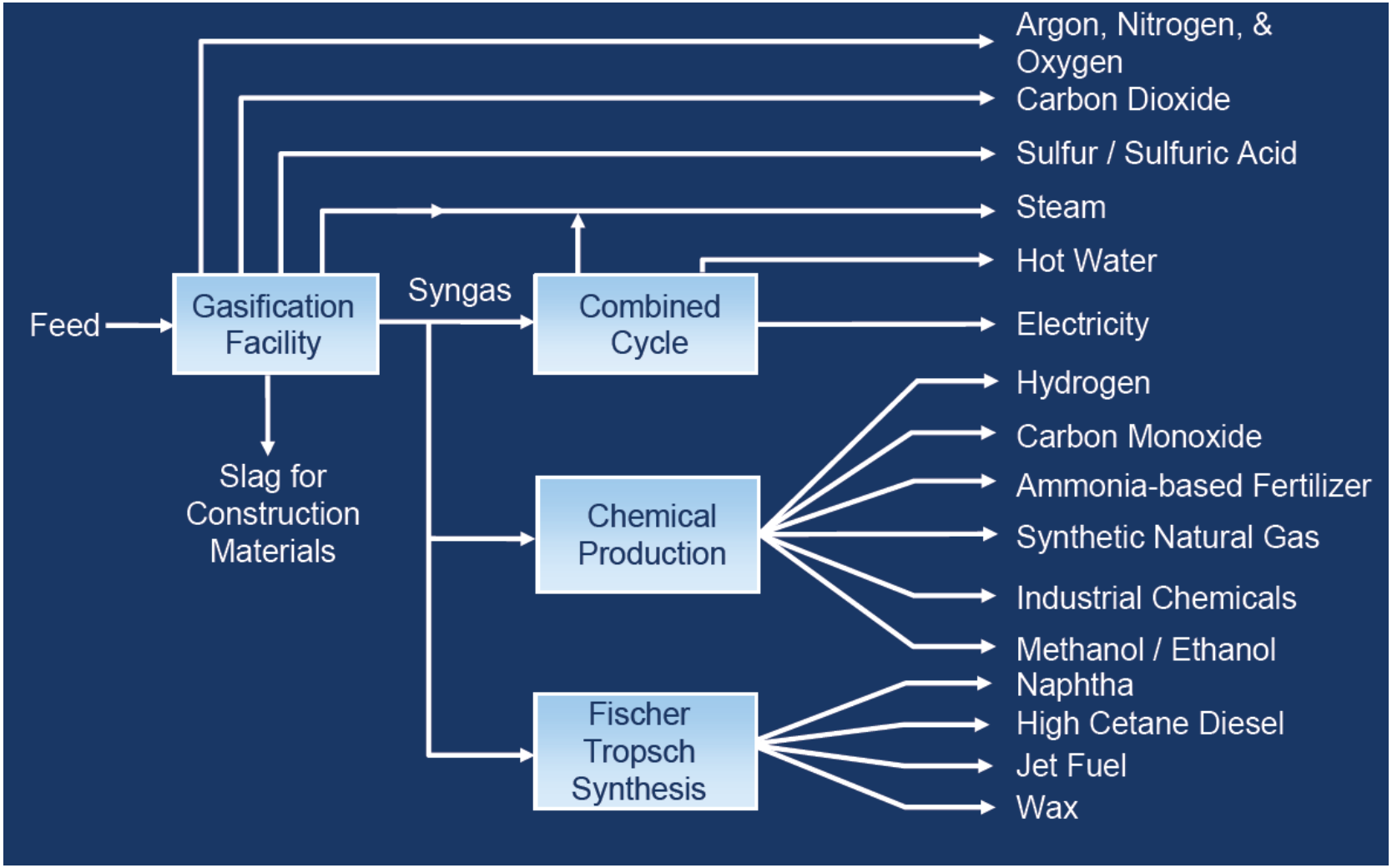


Gasification Systems Overview

Jenny B. Tennant
Technology Manager, Gasification

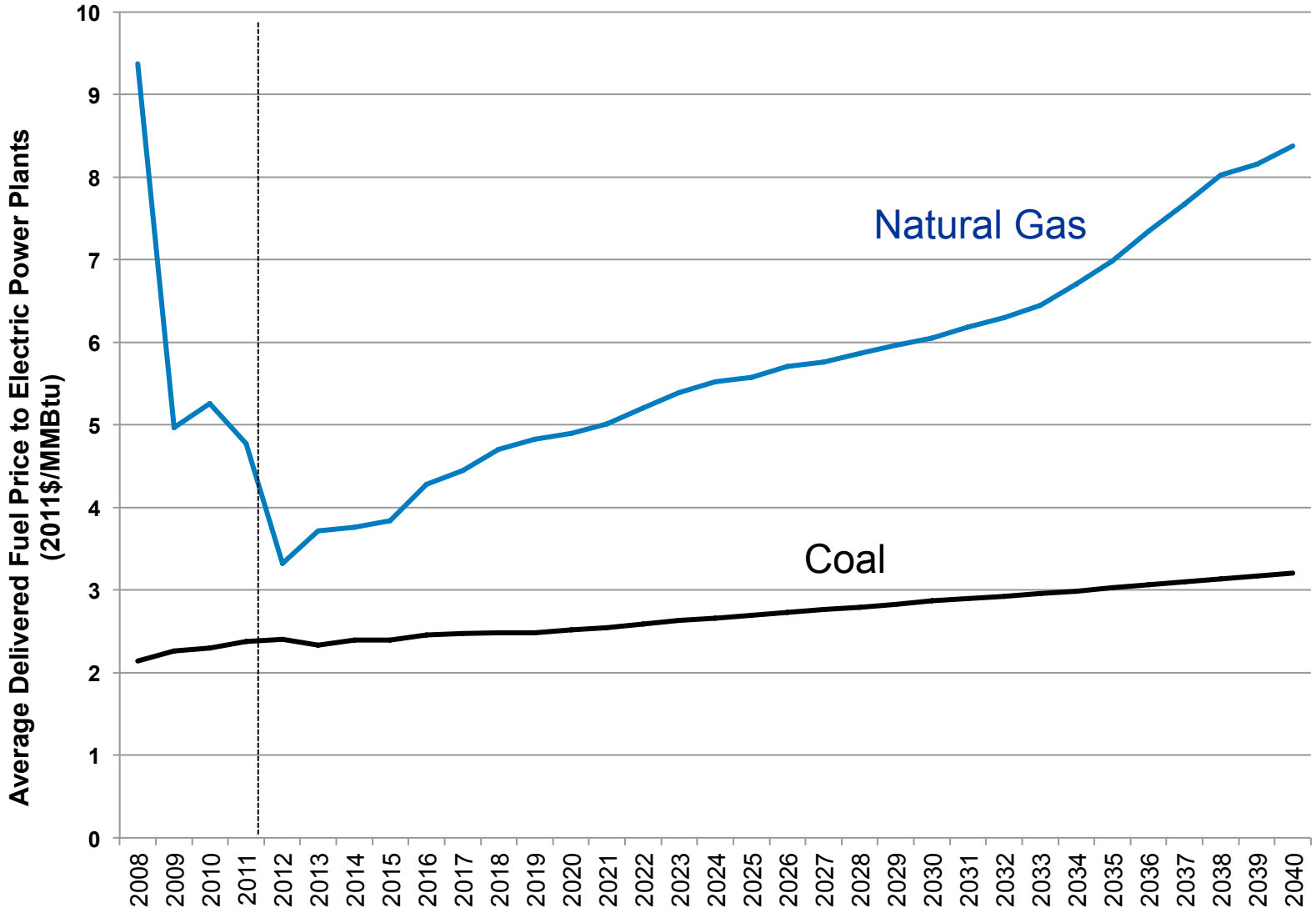
June 19, 2013

Products from Gasification



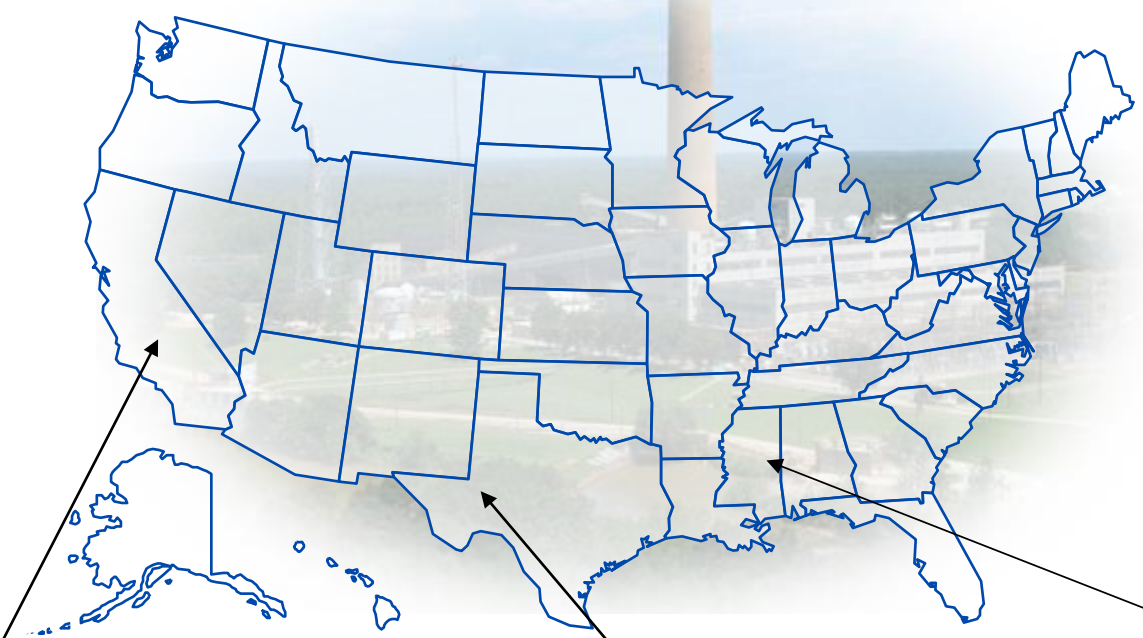
Source: FLUOR®

Coal and Natural Gas Prices



Source: EIA's Annual Energy Outlook 2013 Reference Case, 2008-2040

DOE Supported IGCC Demonstration Projects



SCS Energy
Hydrogen Energy California
300 MW Power & Urea/UAN
1- MHI gasifier

90% Carbon capture – Enhanced Oil Recovery
Fuel: Sub-bituminous coal/petcoke
Construction: Jan 2015

Summit Power
Texas Clean Energy Project
200 MW Power & Urea
2 –Siemens gasifiers

90% Carbon Capture - EOR

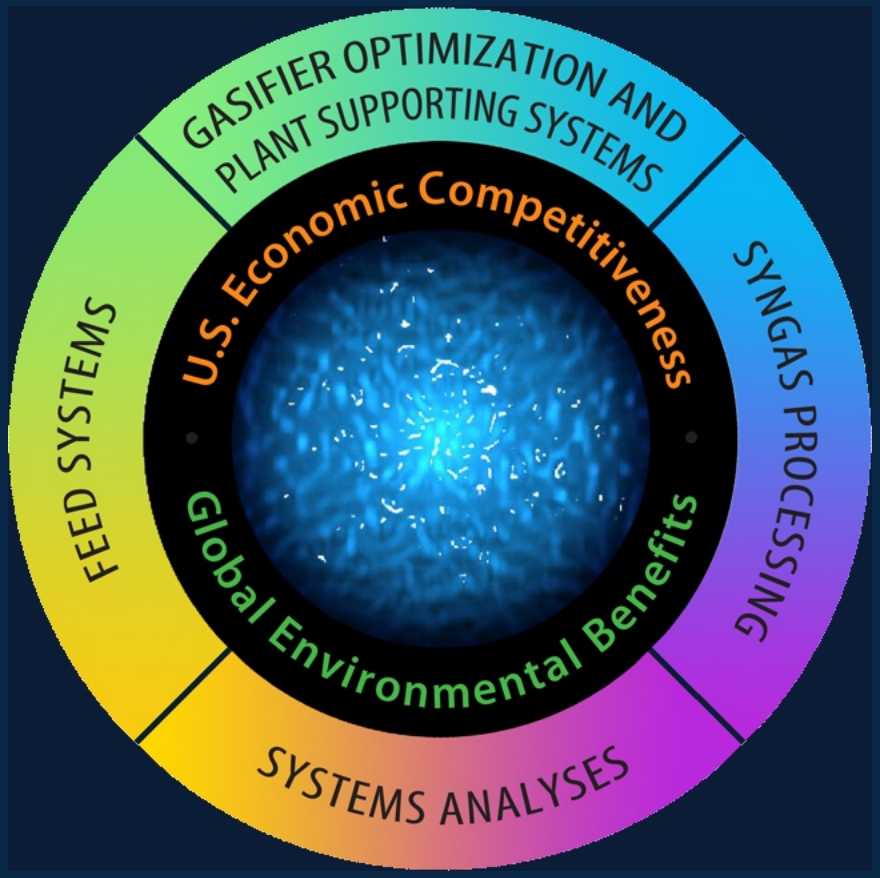
Fuel: Sub-bituminous co
Construction: 3rd Q2013

Southern Company
Kemper County Energy Facility
582 MW Power
2 – KBR TRIG™ gasifiers

65% Carbon capture - EOR

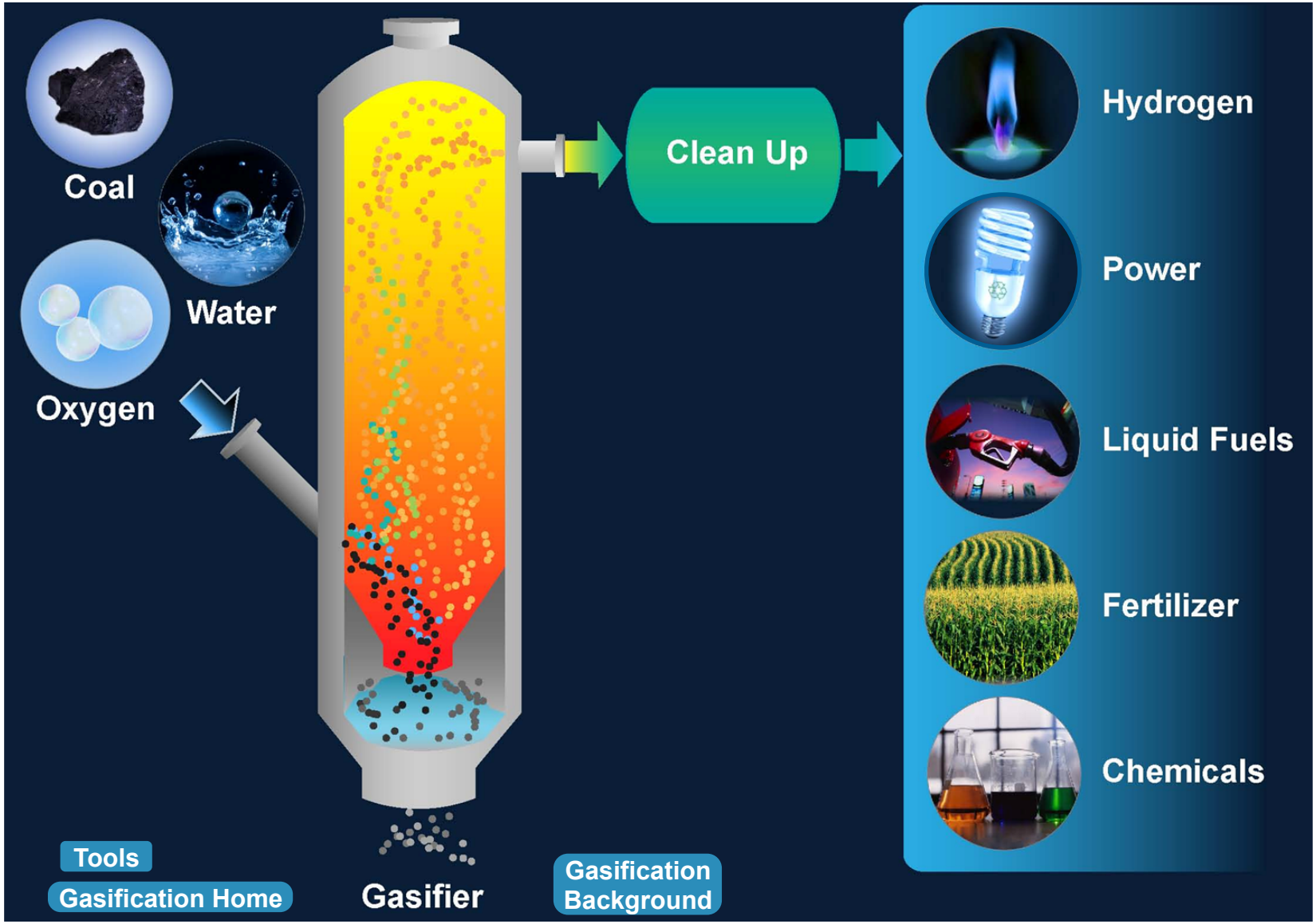
Fuel: Mississippi lignite
Construction: >60% complete

Portal to the DOE Gasification Systems Website

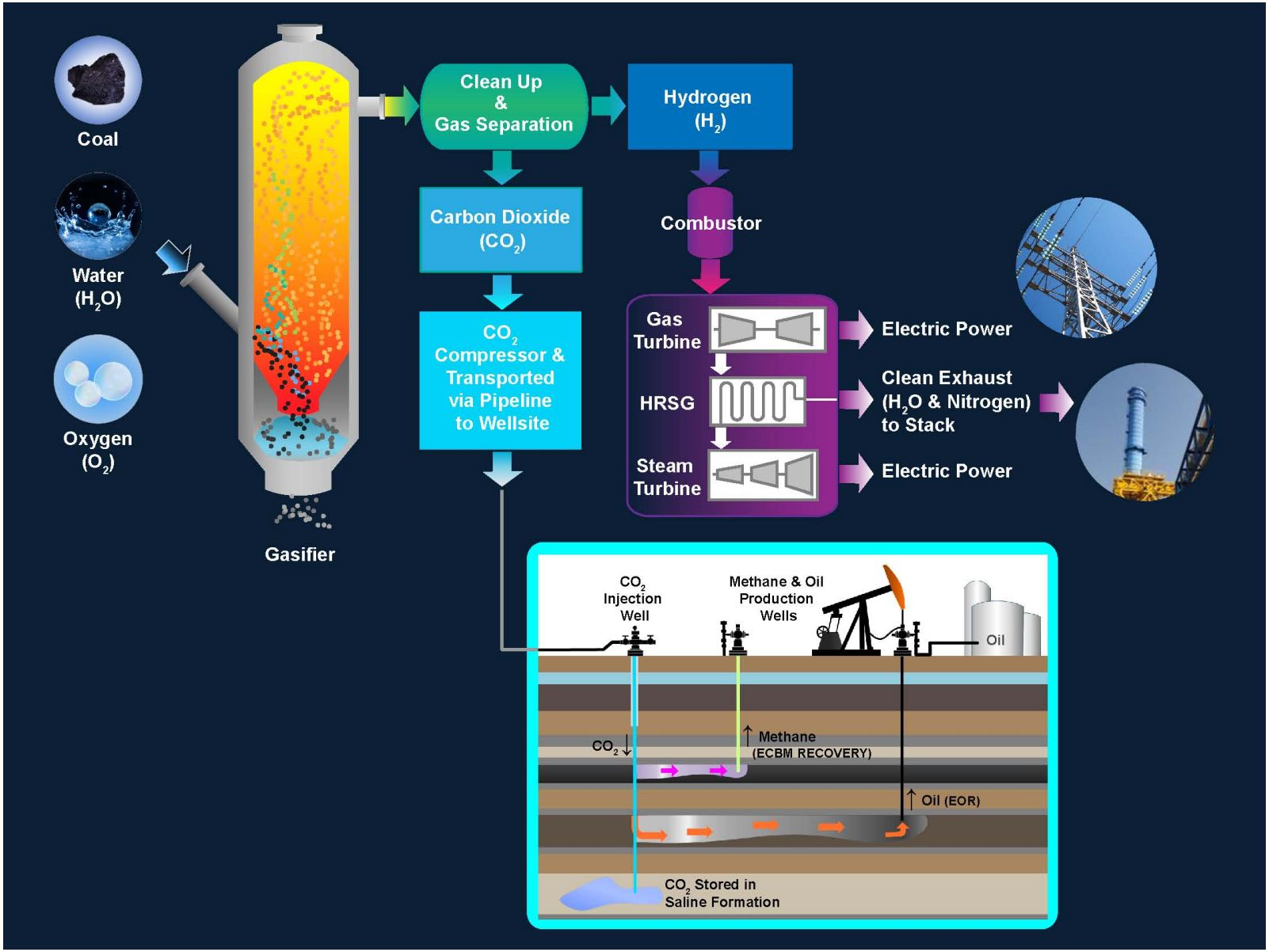


HOME | PROJECTS PORTFOLIO | MFIX | GASIFIPEDIA | DATABASE | REFERENCE SHELF

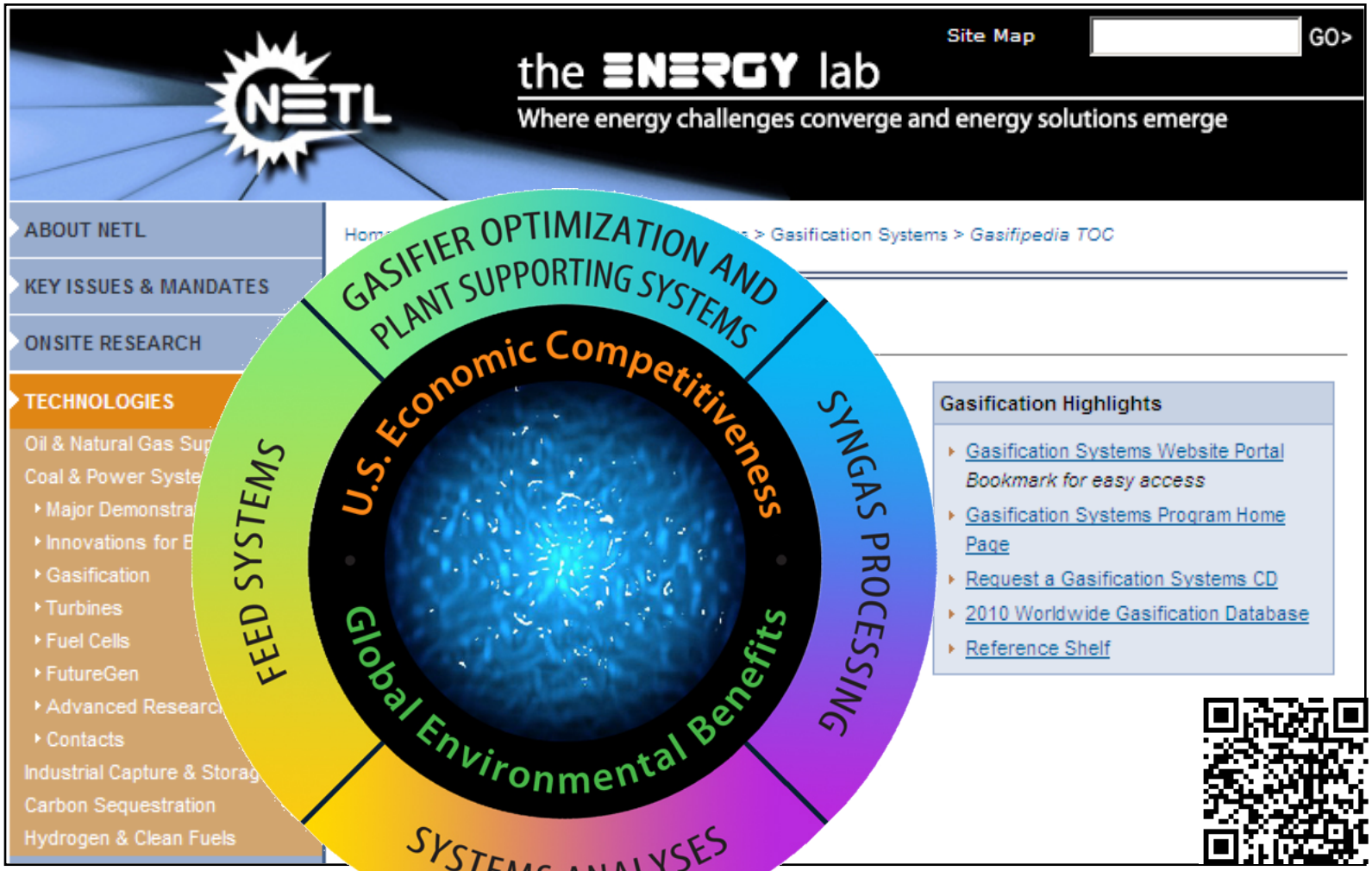
Gasifipedia: Internet Gasification Encyclopedia



DOE Vision of Gasification-based Clean Power



Visit NETL Gasification Website

www.netl.doe.gov/gasification-portal.html

Google the term "Gasifipedia" Google Gasifipedia Search