The goal of this set of slides is to give a taste of a few examples of sensitivities that can be run and open to discussion

Source: NREL Stage Gate Process
Coal sensitivities

- Coal type
- Mining
- Mine gas content
- Transportation distance
- Combustion vs. gasification

Carbon Capture and Storage
Co-fire coal and biomass

Natural gas sensitivities

- Drilling type (onshore, offshore, etc...)
- Gas quality
- Transportation distance
Biomass Sensitivities

- Feedstock type (Ag residues, perennials, wood feedstocks)
- Transportation distance (Feedstock and finished product)
- Make-up nutrients (Ammonia for urea)
- Soil erosion (loss of soil mass and soil carbon due to residue removal)
- Finished fuel (ethanol, higher alcohols, biocrude, etc…)

Nuclear Sensitivities

- Mine type
- Transportation distance
- Enrichment type (Gaseous diffusion vs. centrifuge)
- Power generator (Gen II vs. Gen III+)
Product LCAs

- Solid state lighting vs. incandescent vs. CFL
- Asphalt from renewable resources
- Your products…. 

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