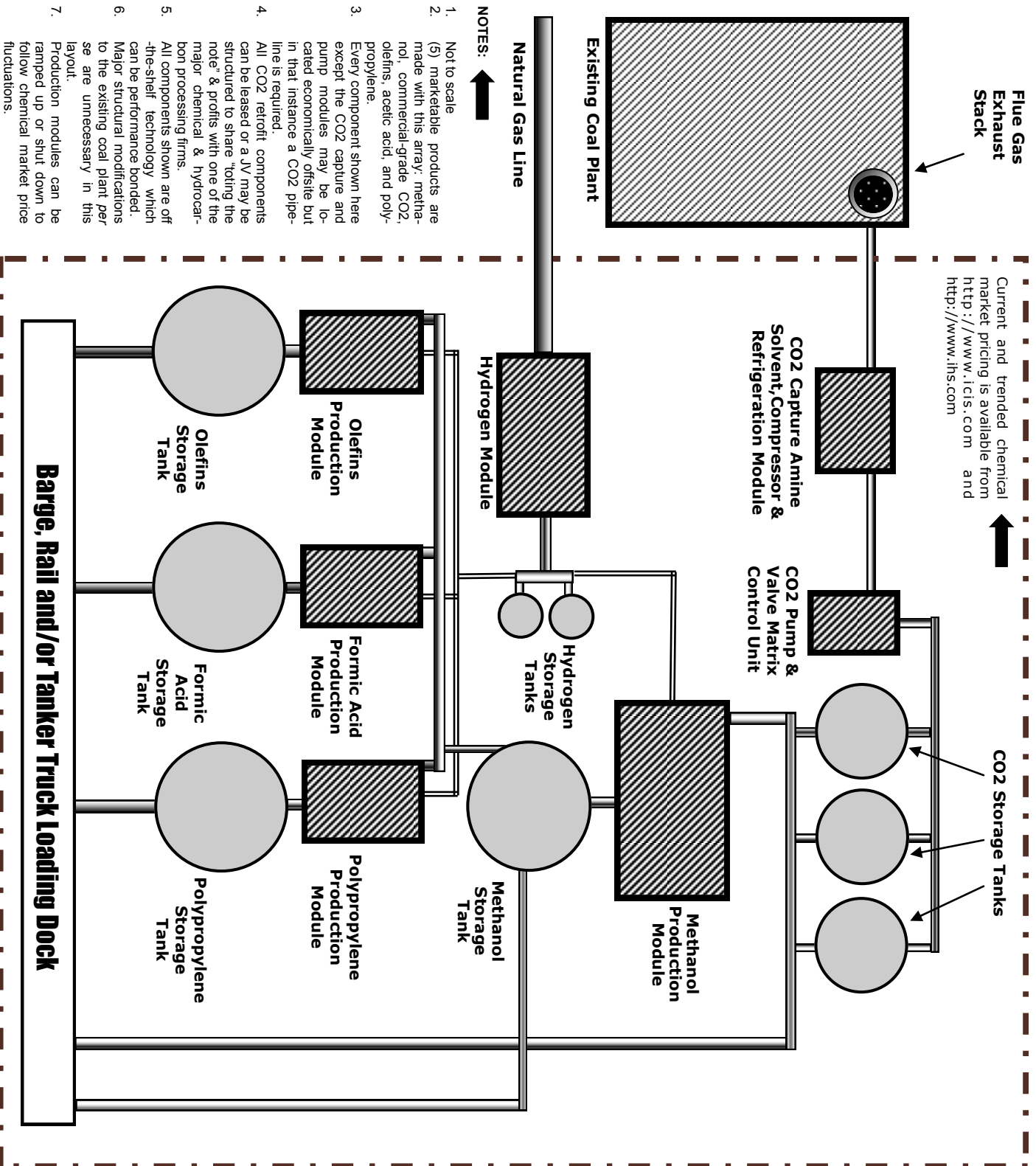


# Flowchart for a 30%-90% CCUS retrofit to an existing coal plant

Current and trended chemical market pricing is available from <http://www.icls.com> and <http://www.ihs.com>



**NOTES:** →

1. Not to scale
2. (5) marketable products are made with this array: methanol, commercial-grade CO<sub>2</sub>, olefins, acetic acid, and polypropylene.
3. Every component shown here except the CO<sub>2</sub> capture and pump modules may be located economically offsite but in that instance a CO<sub>2</sub> pipeline is required.
4. All CO<sub>2</sub> retrofit components can be leased or a JV may be structured to share "toeing the note" & profits with one of the major chemical & hydrocarbon processing firms.
5. All components shown are off-the-shelf technology which can be performance bonded.
6. Major structural modifications to the existing coal plant per se are unnecessary in this layout.
7. Production modules can be ramped up or shut down to follow chemical market price fluctuations.

Proven firms which build and/or operate this type of facility each and every working day, some for over 100 years:

- ThyssenKrupp.com
- Fluor.com
- UOP.com
- KBR.com
- BASF.com
- PraxAir.com
- DavyProTech.com
- LindeGases.com

For a complete listing, please contact Hydrocarbon-ProcessingMagazine.com to request their industry directory.

Preliminary site-specific economic surveys are available upon request. <http://www.industrialcostanalysis.com>