Ethylene Steam Cracker Process

- Feed
- Feedstock
  - Cracking
  - Quench
  - Compression & Condensation
    - Recycle Streams
  - Acid Gas Removal
  - Decontamination
  - Separation
  - Ethylene Propylene
- Steam Generation
- Refrigeration
- Fuel Gas Streams
Overall Flow Diagram of Ethylene Processes
Ethylene Cracker, Feed Section

FEED

ETHANE / NAPTHA / MIXED FEED

OH2 BB2

FEED PRETREATMENT AND REFRIG DUTY RECOVERY

OH2 BB2

CRACKING
Ethylene Cracker, Cracking Section
Ethylene Cracker, Quench Section
Ethylene Cracker, Compression Section

**ETHYLENE — PROCESS FLOW DIAGRAMS**
Ethylene Cracker, Caustic Wash Section
Ethylene Cracker, Refrigeration Section

- Ethylene Cracker
- Refrigeration Section
- DE-METHANIZER
- MIXED REFRIGERANT LOOP
- COLD BOX
- EXPANSION VALVE
- REFRIGERATION
- HYDROGEN
- CAUSTIC WASH
- PSA UNIT
- METHANE RECYCLE TO CGC
Ethylene Cracker De-Methanizer
Ethylene Cracker De-Ethanizer
Ethylene Cracker De-Propanizer