ENERGY INTEGRATION SOLUTIONS FOR ONSHORE GAS PLANTS

Introducing:
Fuel Free Power Generation

GasFac I

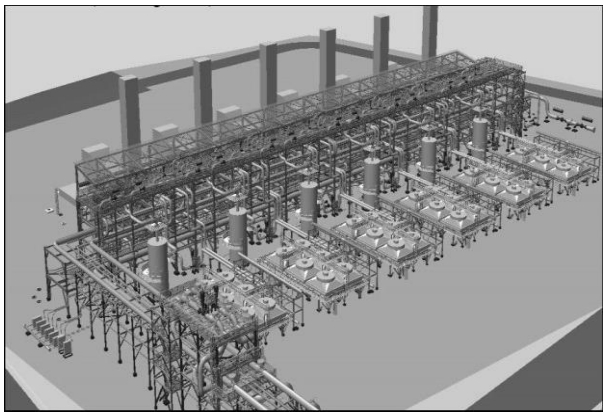
Gas Export Compression Unit

- Lean gas from the ethane recovery units is compressed in order to achieve the pressure required by the pipeline, 91 bar.
- Six trains are working in (5+1) configuration.
- One common header delivers the lean gas to the compressor trains.

Target: Gas Processing Facilities
Process Integration Idea: Heat Recovery Steam Generation
Machinery Engineering Idea: Combining Power Generation and Mechanical Drive

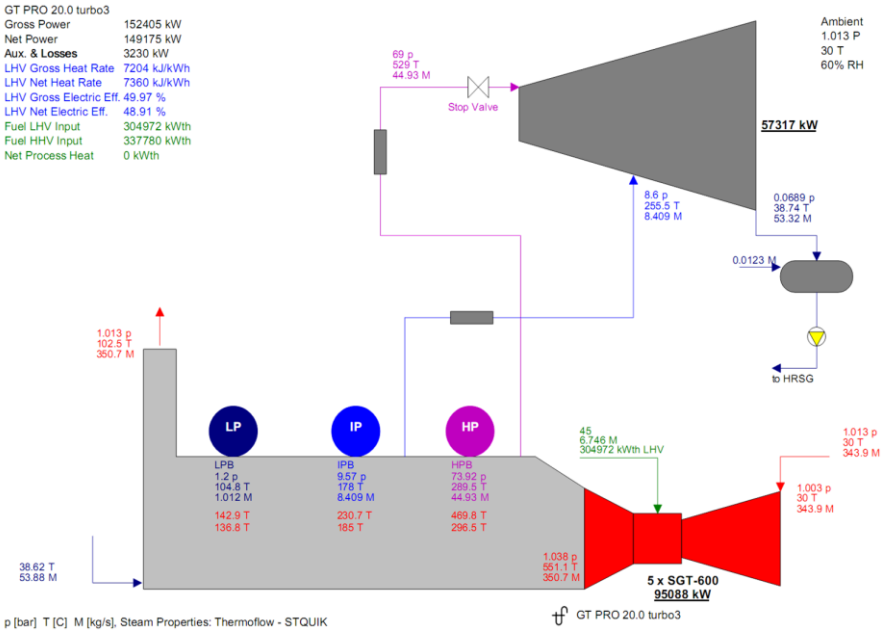
Case Study

- A 2.1 PJ/day Gas Plant
- Regular Design:
  - 6 × Turbocompressor (Gas Export Unit)
  - 4 × GT-Generator (Power Gen. Unit)
- Fuel Free Power Generation:
  - 6 × Turbocompressor
  - 1 × ST-Generator
  - Steam Cycle Infrastructure
- **Fuel Consumption Reduction ≈ 40%**
- **Fuel Gas Saved ≈ 12 PJ/year**
- **Added Capital Cost ≈ 0**



Other Solutions

- ST Driven Compressors (GasTEC I: CCSD)
- Elec. Motor Driven Compressors (GasTEC III: ICSD)
- Power Generation + Water Desalination



Combined Gas Export & Power Generation Unit

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