



**Flexera**  
CONSULTING

**Knowledge based Engineering and Consultancy**

**Green Technologies | Process Intensification | Sustainable Engineering | Carbon Capture**

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## Knowledge Based Engineering Consultancy

Flexera Consulting is an independent chemical process engineering practice based in Chennai, India, offering specialist consulting services with over 28 years of hands-on expertise in process design, simulation, and optimization across sustainable technologies and specialty chemical systems.

### SERVICES OFFERED

- **Basic Engineering** — Process design basis, PFDs, equipment sizing
- **Detail Engineering** — P&IDs, datasheets, hydraulics, PRV sizing
- **Troubleshoot Study** — Root cause analysis & corrective actions
- **Debottleneck Study** — Throughput constraint resolution
- **System Adequacy Check** — Equipment & safety system review
- **Scale-up from Lab Trials** — Lab to commercial scale engineering

### CORE EXPERTISE

- Green Hydrogen & Green Methanol production
- Compressed Biogas (CBG) plant engineering
- Advanced evaporation — MEE, MVR, TVR
- Gas treatment — SO<sub>2</sub>, CS<sub>2</sub>, H<sub>2</sub>S, NH<sub>3</sub> recovery
- Carbon Capture by Amine based
- Zero Liquid Discharge (ZLD) systems
- Solvent recovery & emission control

### SIMULATION TOOLS

- ASPEN HYSYS | ASPEN Plus | ASPEN EDR
- HTRI | DWSIM | AutoCAD

### INDUSTRIES SERVED

- Chemical & Petrochemical
- Fine Chemicals & Specialty Chemicals
- Renewable Fuels — Green H<sub>2</sub>, Methanol, CBG
- Carbon Capture – Flue gas, CBG
- Electrochemical — Chlor-Alkali, STP, organic synthesis
- Biofuels & Distilleries
- Water Treatment & Zero Liquid Discharge

### STANDARDS & COMPLIANCE

- TEMA Standards — Heat Exchanger Design
- ASME Standards & Piping Standards
- IMO Regulations — Marine Applications
- ISO Documentation & Quality Systems
- HAZOP Facilitation & Risk Assessment

### ENGAGEMENT MODELS

- **Fixed-scope** — Fixed deliverables with defined timeline
- **Retainer advisory** — Ongoing technical advisory support
- **Milestone-based** — Multi-phase engineering projects

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Open to engineering, consulting, and technical advisory engagements.