

DOWNSTREAM

Pelican Energy offers expertise in the refining and petrochemical markets through our team of highly skilled engineers, designers, project managers and construction managers. Our team offers a full range of multi-disciplined individuals of up to 30 plus years of experience to help our clients meet all of their project needs. From front-end feasibility studies and project scoping, to infrastructure upgrades and site management, all the way through power studies and instrumentation/controls engineering, Pelican Energy has the knowledge and know-how to execute at a very high level.



PELICAN



Refineries * Chemical Plants * Power Generation Plants

- Front End Engineering Design (FEED) Studies
- AFE Estimating for Overall Project Development and Costs
- Process Simulation and Modeling
- Debottlenecking Studies
- Relief System Design and PSV Assessments
- Compressor and Pump Systems Design
- Gas to Liquids Processing
- Natural Refinery – Synthesis Gases
- Sulfur Recovery / Tail Gas Clean-Up
- Stress Analysis for all Piping Systems
- Structural Assessments Including Reinforced Concrete and Masonry Design
- Deep and Shallow Foundation Design
- Pile Structured Foundations
- Storage Tanks and Terminals Design
- Pipe Rack and Footing Design
- Office/Warehouse and Miscellaneous Building Design
- Power Generation and Power System Design
- Substations – High / Medium / Low Voltage Power System Design
- Connected and Demand Load Flow Studies
- MCC / Switchgear Design
- Lighting and Auxiliary Power Systems
- Grounding System Design
- Arc Flash Analysis
- Pneumatic, Electronic and Hydraulic Controls System Design
- Telecommunication Systems Design
- Cause and Effect / SAFE Charts – Safety System Design
- Alarm System Including Gas and Fire Detection / Control Systems
- Materials Procurement Services
- Construction Management and Support
- Mechanical Integrity Assessment
- Start-Up and Commissioning Support
- Laser Scanning for Plant As-Builts