

OIL & GAS

UPSTREAM & NATURAL GAS

Upstream

- Assisted Recovery through Steam Injection, Carbon Dioxide, Polymers or Surfactants
- Crude Dehydration and Desalting
- Gas Desulphurization and Sweetening
- Gathering Systems and Pipelines
- LPG Recovery
- Production Activation Via Gas-Lift
- Secondary Recovery with Water Injection or Gas Injection
- Storage, Handling and Shipping
- Tri-phase Separation Systems (Oil, Gas, Water)

Natural Gas

- Gas Compression Plants
- LNG Re-gasification Terminals
- LNG Flow Regulation Plants
- Natural Gas Liquefaction Plants
- Onshore and Offshore Gas Field Development
- Plants that Convert Town Gas into Natural Gas

Proprietary

- Construction and operation of pipelines
- Development of Oil Sands, Heavy Oil and Sour Gas
- Gas Processing, Sulphur extraction and Heavy Oil Upgrading
- High-tech Exploration and Production Methods
- Services, Equipment and Training for Environmental Protection and Safety
- Specialised Controls and Computer Applications

DOWNSTREAM

Refining

Basic Refining

- Acid Water Treatment
- Amine Treatment
- Catalytic Paraffin Removal
- Catalytic Reforming
- Crude Distillation (Atmospheric & Vacuum)
- Desulphurisers
- Gas Oil Hydrotreatment
- Gasoline Treatment
- Kerosene Treatment
- LPG Treatment
- Naphtha Desisopentanizer
- Naphtha Hydrotreating and Fractionating
- Saturated Gas Concentration
- Sulphur Recovery

Reduced Crude Conversion

- Coke Calcination
- Delayed Coking
- Fluid Catalytic Cracking / Gas Concentration
- Hydrocracking
- Hydrogen Generation
- Vacuum Distillation
- Viscoreduction

Octane Number Enhancement Units

- Alkylation
- Isomerisation
- MTBE
- Oligomerisation

Other Refining & Treatment Units

- Auxiliary Services and Off-sites
- C4s Hydrotreatment
- Hydrofinishing of Lubricants
- Lubricant Blending Plants
- Oil Pipelines
- Olefin Saturation
- Product Storage Facilities
- Semi-Submersible Platforms
- Truck Loading Stations

Petrochemicals

Olefins

- Acrylic Fibres
- Butadiene Extraction
- Dichloroethylene
- Ethers
- Ethylene
- Ethylene Oxide
- Ethanolamine's
- Glycol
- High Density Polyethylene
- Isopropyl Alcohol
- Low Density Polyethylene
- Polypropylene
- Propylene Oxide
- Polyvinyl Chloride
- Vinyl Acetate
- Vinyl Chloride Monomer

Aromatics

- Aromatic Extraction
- Caprolactam
- Cyclohexane
- Cumene-Phenol-Acetone
- Cyclohexanone
- Ethylbenzene
- Hydrodealkylation
- Polycarbonates
- Terephthalate Dimethyl
- Styrene Monomer and Polystyrene

Raw Material

- Alkylation
- Elimination of Acid Gas
- Dehydrogenation

- Gasification of Vacuum Residue
- Hydroformilation
- Hydrogen Recovery
- N-Paraffin / N-Olefin Separation

Other Plants

- Additives for Lubricants
- Blending of Polymers
- Carbon Black
- Chlorocarbide
- Hexanodiol
- Hydrogenation of Thermoplastic Rubber

Proprietary

Heat Transfer

- Air Coolers
- Heat Exchangers
- Process Heaters
- Steam Generators

Heat Recovery



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POWER

- Cogeneration
- Combined Cycles and IGCC's
- Conventional Thermal Plants
- Hydroelectric Power Plants
- Renewable Energy (Solar, Wind, Biomass)

Proprietary

- Biodiesel Production Plant
- Biomass Power Plants
- Gas and Diesel Engine Based Power Plants (with and without Heat Recovery)
- High Performance Electric Power Generation (Cogeneration,

- Trigeration, Peaker Plants and other configurations designed to optimise the efficient use of energy)
- Solar Energy Power Plants
- Waste to Energy Plants (WTE)

INFRASTRUCTURES & INDUSTRIES

Infrastructures

- Airport and Air Transport
- Architecture and Buildings
- Ports and Coastal Projects
- Roads and Railways

Life Science

- Commissioning
- Construction management
- Process engineering
- Technology and qualification

Industries

Environmental Engineering

- Drinking Water Supply and Treatment
- Environmental Impact Studies, Air Contamination, Noise and Vibration Control
- Risk Analysis and Preventive Measures
- Treatment and Revalorization of Special Wastes

- Urban and Industrial Waste Water Treatment
- Urban and Industrial Solid Waste Treatment
- Water Desalination and Debrining

Hydraulics

- Channels and Conducts
- Hydroelectric Power Plants
- Soil Decontamination
- Water Resource Planning

Hydrometallurgy

Hydrometallurgy and Electrochemical

Proprietary

Fertilizers & Nitric Acid

- Air recycling and washing in Ammonium Nitrate Piling Towers
- Ammonium Nitrate Liquor Produced in a Pipe Reactor
- Catalysts for NOx Elimination in Nitric Acid Plants
- Concentrated Nitric Acid
- Diammonium Phosphate (DAP)

- Granulated Ammonium Nitrate (AN/CAN)
- Monoammonium Phosphate (MAP)
- Nitric Acid, Fertilizer Grade
- NPK
- Superphosphates (SSP and TSP)

Others

- Ammonia
- Chloride soda
- Dicalcium Phosphate
- Phosphoric Acid
- Sulfuric Acid
- Urea

MINING AND METALS

- Asset and Strategy Planning
- Engineering, Design and Documentation
- Health and Safety
- Integrated Mine Infrastructure

- Mineral Processing
- Material Handling
- Operations & Maintenance
- Procurement and Supply Chain Services

- Project Management & Delivery
- Specialist Services
- Systems & Process Control