Refineries and Petrochemical Plants
Distillation columns
Refineries and Petrochemical Plants

Fields of Expertise

- Greenfield: Conceptual refinery design, prefeasibility studies, licensor selection, FEED and detailed design of individual open art process units
- Brownfield: Feasibility studies, FEED and detail design for process modifications, debottlenecking projects, capacity increases, energy efficiency increase, etc.
- 25 years of experience

Highlights

- 200,000 t/a Borstar polypropylene plant, located at the petrochemical complex in Schwechat (Owner’s Engineering; Borealis, Austria)
- 180,000 m³/h flue gas treatment section for power plant of Schwechat refinery; removal of SO₂, SO₃, NOₓ and particles from flue gas (Extended basic engineering, EPCM; Schwechat, Austria)
- Flare gas recovery project (Basic design and EPCM, OMV Refinery Schwechat, Austria)
- 6 MTA Torzhok Refinery, various studies, independent review (ZAO PIRS, Russia)

Selected References

- Recovery of monomer losses PP5 Schwechat, Austria
- Single site catalyst PP6 Burghausen, Germany
- Dust filter FCC-unit, Refinery, Romania
- Bitumen dosing, TGU, Schwechat, Austria
- Revamp of boiler 4 in Refinery Burghausen, Germany
- FEED for Naphtha splitter Petrobrazi, Romania
- Revamp of refinery fire fighting system EPCM, Romania
- Due diligence study Refinery, Uzbekistan

ILF Services

ILF provides all services required for the successful implementation of refinery and petrochemical projects. These services include:

- Open art process plants
- Process plants for polyethylene, polypropylene production, FCC, Isomerization, HDS, etc.
- Outside battery limit facilities (incl. utilities)
- Off plot and logistic facilities (flare, storage, etc.)
- Loading and unloading stations (railway/truck)
- LPG processing and handling
- Gas treatment plants
- Power supply

Studies:

- Economic studies including market research
- Conceptual development of entire refineries and petrochemical plants
- Selection of technologies and licenses

Facility design:

- Outside battery limits (OSBL)
- Development over all phases (FEED - Detail)
- Inside battery limits (ISBL)
- Development on basis of available licenses
- Modification and plant upgrades
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