

# PROJECT PROFILE – PLANT EXPANSION

PROJECT: Plant Expansion / Detailed Engineering

LOCATION: Avondale, Louisiana USA



## PROJECT HIGHLIGHTS

- Plant expansion to increase its capacity to process landfill gas from its current rate of 8,000 scfm to 12,000 scfm while also making provisions for a future project to bring the capacity to 16,000 scfm
- Replacement of existing CO<sub>2</sub> removal system will increase plant efficiency currently at 90% to over 99%
- Additional equipment required included centrifugal blowers, positive displacement blowers, a second H<sub>2</sub>S removal system, pumps, chillers, heat exchangers, an incinerator, compressors along with all associated instrumentation, valves and specialty items
- 10 MVA, 13.8kV capacity added to the electrical distribution system
- New electrical building designed with MV and LV rooms with motor controls for (7) MV compressors with VFDs and Soft Starters 400 – 1250 hp

## SCOPE OF WORK

EDG facility engineering involvement included as-building the existing facility P&IDs, project P&ID development, equipment, line, valve, instrumentation and specialty item list development. EDG electrical engineering involvement included, load study, motor controls, UPS, cable tray, lighting, grounding, ARC flash study.

## DISCIPLINES

- |   |  |
|---|--|
| <input type="checkbox"/> Civil                      | <input checked="" type="checkbox"/> Process / Facilities |
| <input checked="" type="checkbox"/> Electrical      | <input checked="" type="checkbox"/> Mechanical / Piping  |
| <input type="checkbox"/> Instrumentation & Controls | <input type="checkbox"/> Structural                      |

## CONTACT

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