

CASE STUDY - BUTANE TRANSLOAD FACILITY DESIGN & CONSTRUCTION

TransTech Energy was selected as the Engineering, Procurement, and Construction (EPC) contractor for the design and construction of a butane transload facility in the southeastern US. The project aimed to supply butane for gasoline blending in the region.



UNIQUE CHALLENGE

One of the primary challenges faced by TransTech Energy was ensuring consistent pressure within the 90,000-gallon butane storage tank despite suboptimal temperatures that could lead to zero PSIG vapor pressure. To address this, an innovative tank heater/feedback vaporization system was engineered to maintain the tank pressure above 10 PSIG, crucial for the seamless operation of reciprocating compressors.

PROJECT OVERVIEW

EQUIPMENT:
Repurposed 90,000-gallon propane storage tank

SCOPE OF WORK:

- Dismantled and decommissioned existing bulk plant.
- Coordinated logistics to load and ship tanks to Rocky Mount, NC fabrication facility.
- Recondition tanks, and inspected/certified for placing back into propane service.
- Fabricated skid frame with liquid pump and combo unloading/loading stanchion.
- Configured skid with new pump valving, instrumentation, emergency shutdown system, and all NFPA 58 required signage.
- Coordinated freight, logistics, and provided installation, project management, and commissioning at new customer locations.

LPG/PROPANE, BUTANE VAPORIZERS

TransTech Energy offers the largest selection of 'best in class' liquefied petroleum gas (LPG/ Propane)/Butane vaporizers and propane/air blending systems to support effective commercial, industrial and utility gas consumption needs.

We offer a broad range of design options and configurations, utilizing both steam and hot water heat sources, electric, waterbath and direct fired, in capacities of 40 GPH (gallons per hour) upwards of 20,000 GPH, to suit virtually any size operation. We also provide turnkey skid-mounted options for an integrated solution requiring advanced controls, gas detection and any additional systems required for a custom integration.

NGL, LPG/PROPANE TERMINALS - ENGINEERING AND CONSTRUCTION

TransTech's in-house design, engineering and construction team offers turnkey design/build solutions for LPG & NGL storage plants and terminals.

Let our project designers and engineers assist you in: defining the project requirements, specification of all equipment and materials, ensuring all applicable code requirements are met and obtaining local permits. Additionally our field service professionals are ready to assist with installation, construction, start-up and commissioning.



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