

The background of the page is a photograph of an industrial fermentation plant, overlaid with a semi-transparent blue filter. The image shows a complex structure of metal scaffolding, pipes, and large cylindrical tanks. The text "FERMENTATION PLANT" is superimposed on the left side of the image in a large, white, bold, sans-serif font.

# FERMENTATION PLANT



## FERMENTATION PLANT

### CAPACITY 1.4 MGPY | STOCK #444

#### DESCRIPTION

Complete Fermentation Plant with Real Estate for Sale. Consists of used 1.4 M gallon/year fermentation plant (demonstration plant) and pilot plant. Started in 2009, finally shut down in 2015. Originally designed to produce lignocellulosic ethanol (LCE). Feedstocks including: (1) common sugar cane, (2) purpose grown energy cane, (3) sorghum, (4) bagasse. Offering includes the following process sections: Feedstock handling, Feedstock transfer, Feedstock preparation, Hydrolysis, Liquefaction, Yeast and enzyme propagation, C5, C6 co-fermentation, Ethanol recovery. Plant includes a pilot plant used to develop LCE technology.

#### MAJOR EQUIPMENT

- 55,000 Gallon SS Fermenter, 18' dia x 25'
- (3) 54,000 Gallon CS Fermenter, 19' dia, cone bottom
- 18,200 Gallon SS Fermenter, 10 psi, 12' dia x 19'
- (3) 18,200 Gallon CS Fermenter, 13' dia, cone bottom
- (4) 6,594 Gallon 316L SS Fermenters, 30 psi, with control skid
- Hydrolyzer - 1" thick SS with inco lining
- Alfa Laval Centrisys
- (2) FKC Screw Presses
- Rectifier
- Beer Stripper
- Thermal Oxidizer
- FKC Dewatering Press
- Texas Power Screen, manufactured by Phoenix (A Terex company), mobile
- TK-205 (Replacement) - Blow down tank for hydrolyzer, Approx 20,000 gal 316L SS Pressure Vessel, designed for 150 psi, 10' dia x 24'
- Unused DAF System