

Asset Catalog for Plants & Systems (30 Items)

Asset	Description	Condition	Location
Plants/ASU		1 Items	
ASU Air Separation Unit 600 TPD Asset ID: PK-5101	ASU - Air Separation Unit Includes ancillary systems. The ASU was originally commissioned in 1997 and idled in 2017. See Plant Narrative and PFD in Links. This plant produces: <ul style="list-style-type: none">• 402 KSCFH of high pressure Gaseous Oxygen (GO2) at 200 psig• 100 KSCFH of low pressure Gaseous Oxygen (GO2) at 3 psig, Oxygen Purity 99.5%, N2 Purity less than 10 PPM O2• 102 KSCFH of Liquid Oxygen (LO2)• 1,872 KSCFH of Gaseous Nitrogen (GN2) at 400 psig• 74 KSCFH of Liquid Nitrogen (LN2)• 23.9 KSCFH of Liquid Argon (LAR) Less than 1 PPM O2 and less than 1 PPM N2• 305 KSCFH of waste N2 (gaseous nitrogen) The plant has a film-type main vaporizer with two BAHX closed cores supplied by Sumitomo and is equipped with an alumina/CaBaX air purification system. The natural gas fired heater provides heat regeneration. The HP column has trays; the LP column and two argon columns are packed columns. Argon production is "cryo-argon" type. Liquid dumping is through forced air dump vaporizer. <ul style="list-style-type: none">• Still installed. Sale Terms are As Is, Where Is• This plant must be relocated• We can provide services for match marking, dismantling, and loading onto trucks• Full set of plant P&ID drawings are available on request	Used - Good	
			Southeast US
Plants/Biodiesel		6 Items	
Biodiesel Plant 10 MGY Asset ID: PK-2800	Continuous Biodiesel Plant rated at 10 MGY for sale as a complete Asset Sale. Ready to Run - very little CapEx needed. Sale includes 6.7 acres land and buildings approximately 9600 sf under roof. Includes truck scale, loadout system, (10) tanks for 330,000 gallons + process tanks. Equipment and systems are maintained and ready to start, trained plant manager on site. Power and all utilities have remained on and plant has been maintained since being idled. Ready to start immediately. Continuous design with all new or renewed equipment. All stainless steel construction including piping. (except reactors). Brand new Goulds pumps and glycerin distillation system. Automatic operation through Allen Bradley plc and HMI control. No rail on site but there is a spur rail next door fed by Norfolk & Southern. Will require a renovation of existing track. The plant can handle RB and clean oils to 3% ffa. Plant was built in 2007, sold and completely renovated in 2016, operated until 2018 when idled. It has also had limited runs in May-June 2022.	Used - Excellent	
			Moberly, MO

<p>Biodiesel Plant 15 MGY Asset ID: PK-5200</p>	<p>Biodiesel Plant 15 MGY</p> <p>Biodiesel plant with nameplate rating at 15 MGY (million gallons per year). Was designed to run soybean oil and was in operation on crude degummed oil. Complete plant is available - must be relocated. Does not include electrical. The entire plant is inside in a protected building except for the methanol distillation column. Allen Bradley plc controls. Still installed. Plant never met nameplate capacity but average rate was between 6 to 8.7 MGY. In operation from 2020 to late 2021. Includes all in-process tanks, The 18 outside storage tanks are available on Asset 2365 and Asset 2366.</p> <p>We have details and drawings in our Virtual Data Room (VDR) - available upon invitation.</p> <ul style="list-style-type: none"> • (3) biodiesel reactors • (3) horizontal settling tanks • Glycerin coalescer distillation column • Biodiesel coalescer distillation • MRU methanol recovery unit distillation column & system • Cold soak filtration system - Vertical pressure leaf filter and (2) plate and frame filters including slurry and earth handling systems • (2) Hydrasep oil water separators • Air compressors, pumps, heat exchangers • Allen Bradley controls, HMI 	<p>Used - Good</p> <p>Greenwood, MS</p>
<p>Biodiesel Plant 15 MGY Asset ID: 7410 Greenline</p>	<p>Biodiesel plant rated for 15 MGY (million gallons per year)</p> <ul style="list-style-type: none"> • Complete plant including land, rail siding, rail & truck loading, 13 tanks. • Rail ties to BN on one end and UP on other end - BN does the switching. • Two separate complete biodiesel trains capable of operating independently on different feedstocks - a 5 MGY system and a 10MGY system. • All electrical, lab, utilities, and auxiliaries. • All automatic - Allen Bradley plc controls and HMI • Can be run in place. If moved, removal is extra • Land size is approx. 6.52 acres. <p>Plant is a Greenline design capable of running multi feedstocks. It ran animal fat during its production. The 10MGY train was added new in 2008 - plant was idled in 2010, then ran again in 2018 and 2019. Now idle. Much more information available in our Virtual Data Room (VDR). Please ask for an invitation. This plant can be used as a terminal - has 12 rail spots, 2 truck spots, and 1.4 million gallons of storage</p>	<p>Used - Good</p> <p>Missouri</p>

Listed in Category Order. Click on an Asset Name for more details.

<p><u>Biodiesel Plant 3 MGY</u> Asset ID: PK-1900 Greenline</p>	<p>Biodiesel Plant - 3 MGY (million gallons per year)</p> <p>Manufactured by Greenline, this plant ran cottonseed oil in a continuous flow, water free, transesterification reaction and separation modules.</p> <ul style="list-style-type: none"> • On skids and includes in-process tanks. • Fully automatic with plc control; all controls are still there and intact except for the HMI. • No tank farm • No air compressor • This plant was just inspected by the manufacturer in Dec 2021 and all pieces are still there except for some water piping. • The manufacturer notes that this plant is in good condition and very little CapEx will be needed to start the equipment back up. Customer will have to make its own determination. • Plant must move. • Approx space is occupies now is 75 ft x 100 ft <p>Started in 2008 - idled in 2010. We can offer two further options at an additional price: 1. Greenline refurbish all equipment and make ready for start-up. 2. Greenline install and start-up equipment at new location. See information in Links; more data in our Virtual Data Room (VDR).</p>	<p>Used - Good</p> <p>Texas</p>
<p><u>Biodiesel Plant 5 MGY</u> Asset ID: PK-2200 Greenline</p>	<p>Greenline 5 MGY plant complete. Very good condition, built in 2007 and just idled in Sept 2021. In all 15 years of production, this plant did not have more than 3 weeks downtime - designed very well. Production was all animal fat at <4% ffa. It could also run Choice white grease, lard, tallow, brown grease. The front end operation has an Alfa Laval PX centrifuge. Includes an extensive spare parts inventory with spares for every major piece of equipment in the plant. Has an enclosed load out area and a chiller/filter press to meet cold soak requirements for biodiesel, Includes tank farm with (10) 30,100 gallon vertical tanks with insulation, side entering agitators, and electrical insertion heaters. 4 for B-100, 4 for feedstock, 1 for crude glycerin, and 1 for methanol. The BN rail line is next door and BN approved a switch onto property but rail line was never built. This is an orderly negotiated asset sale - all assets must move. Land and buildings are not included. Owner is open to an operating lease agreement as well to run in place.</p>	<p>Used - Very Good</p> <p>Hayti, MO</p>
<p><u>Biodiesel Plant 5 MGY</u> Asset ID: PK-1777 Jatro Renewables</p>	<p>Biodiesel Plant nameplate capacity 5 MGY (million gallons per year). Design is super critical reactor type, developed by Jatro Renewables. This design technology allows this plat to handle very dirty high ffa feedstock while operating cheaper than a conventional catalyst biodiesel plant. No toxic catalyst. Output biodiesel is much clearer than conventional biodiesel. See our marketing deck for lengthier explanations. No license fees. All assets are for sale as an entity - must be relocated. All structure included - building is not included. Includes lab equipment. See Marketing Deck general arrangement in Link. Operated from Nov 2015 to 2019 - now idle.</p>	<p>Used - Very Good</p> <p>Illinois</p>

Plants/Crush & Edible Oil

1 Items

<p>Crush Plant 150 TPD + Refinery 50 TPD Asset ID: PK-2400</p>	<p>Crush Plant 150 TPD --- RBD Refinery 50 TPD</p> <p>This plant was designed to crush and refine organic soybeans from local farmers. Built in 2002 and idled in 2006. The overall refinery is designed to be a 150 T/D soybean processing plant and a 50 T/D refinery with a majority of the technology provided by the Chinese engineering company Wuhan Friendship Food Engineering Co, LTD. The majority of equipment is of Chinese origin but also includes US manufacturers of major equipment (presses, centrifuge, chillers). Offering complete, for sale as a single entity. Most equipment is inside a building and is protected from weather. Crush includes (3) Dupps presses, cooker, hammermill at meal storage. Refinery includes Alfa Laval degumming and ww centrifuges, bleach, deodorization. Quoted as Complete Plant for run-in-place including land and buildings. See flyer brochure and video walkthrough in Links.</p>	<p>Used - Fair</p> <p>New York</p>
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Plants/Essential Oil & CBD 2 Items		
<p>Oil Extraction System, Butane 1 TPD Asset ID: PK-6030 SH Capital Holdings</p>	<p>Hydrocarbon Butane Natural Oil Extraction System</p> <p>Rated at approximately 1 TPD (ton per day). Last used to extract CBD, can be used for essential oils. Complete continuous system. Installed NEW in 2020 and idled in 2021. It ran only 5 to 6 batches - very few hours.</p> <ul style="list-style-type: none"> • Batch Process designed for 1000 lbs of hemp per run lasting 6 to 8 hours. • (3) butane process pressure tanks 420 gallon horizontal insulated. ASME MAWP 250 psig at 100F with water jacket MAWP 15 psig. • Chiller 10 tonR. Temtek BCD-10A air cooled water chiller. Motor 10 HP, refrigerant R-410A • Alfa Laval plate heat exchanger 84 sf, model M6-Base • Shell and tube heat exchanger Alleghany Bradford, MAWP shell/tube rated at 150 psig at 350F • Rosedale ss cartridge filter, model SAN830 • Delta T Systems glycol cooling controls, Model EUW-36E. Heater 36 kw, pump 1.5 HP 230v 3/60 • (2) stainless steel jacketed tanks, Lee Tank 40 gallon capacity. MAWP tank 45 psig at 350F, Jacket 100 psi at 350F. Full vacuum vessel internal. • Transformer 75 kva MGM. 3-phase 480v to 240v/120 CT • Process pump, piping • Most equipment is Like New - Purchased new in 2020. See equipment list <p>We have many photos of this system. Please ask for an invitation to our VDR (Virtual Data Room) to view.</p>	<p>Used - Excellent</p> <p>California</p>
<p>Oil Extraction System, Ethanol 1.5 TPD Asset ID: PK-6020</p>	<p>Biomass drying and ethanol solvent extractor system, last used for producing CBD Extract by drying hemp at 3,000 #/day infeed and approximately 1,000 #/day dry mass outlet. Was running hemp with infeed moisture of 50-80% and outlet moisture of 7% to 11% moisture. CBD extraction efficiency is very good. Unit was purchased new in 2019 - only has 1,289 hours operation. Main components include Gryphon gas fired dryer, ribbon blender, Watermark filter press system, Nutsche filter, BizzyBee distillation system, tanks. See Links for equipment list and process flow chart. For all components enter the key word pk6020 in search box..</p>	<p>Used - Very Good</p> <p>Northern US</p>

Plants/Ethanol 1 Items		
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Listed in Category Order. Click on an Asset Name for more details.

Ethanol Plant 38MGY partial & CHP 4MW Asset ID: PK-8405 Lurgi & Fagen	Ethanol plant 38 MGY (partial) and CHP 4 MW	Used - Good
	<p>Ethanol plant including all assets, buildings, and approx 25 acres of land for sale. Plant has nameplate rating of 38 MGY (million gallons per year). Includes coal fired HRSG and CHP plant rated at 4 MW. This plant was tested in 2009, but never produced. Idled in 2009 - assets are clean, empty, and shiny. Lurgi design modified by Fagen Engineering built in 2008-2009. Process is corn dry mix fermentation. Most of the equipment is still there although it missing the decanters, air compressors, hammermills, boiler, cooling tower, some tanks, some pumps, some electrical. See Equipment List in document Links. Virtual data room (VDR) available for request for many more details.</p> <p>CHP Package: Combined Heat and Power provided steam for the operation and 4 MW power at 12.4 KV. The package includes EPI Outetec coal fired combustor, fly ash control and silo, and Rentech HRSG generating steam at 130,000 lbs/hr at 650 psig for turbine generator + export steam of 125,000 lb/hr at 150 psig to the operation. Gen-Set Package (Includes Murray Turbine, Ideal Generator, Lube system, and control panel). Output is 5000 KVA at 12.4 KV 60 Hz 3 phase. Was guaranteed at 4,012 KW. The steam turbine and generator are skidded together, Lube Oil skid separate. Length of unit approx 26'-7" x Width of unit approx 10'-1". System integrated by Murray Turbine. See box flow diagram and drawings in links.</p>	USA

Plants/Grain Milling	1 Items
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Listed in Category Order. Click on an Asset Name for more details.

Grain Milling Plant Asset ID: PK-5106 Agrex S.p.A	<h2>Grain Milling Plant</h2> <p>Agrex grain milling plant rated at 125 bu/hr (85 tons/day). Capabilities: Corn, Wheat, Barley, Oats, Rye, Soybeans, Grain Sorghum - was milling corn for an ethanol plant. Plant is fully automated using Allen Bradley PanelView Plus 1250 controls, 480v 3/60. Built in 2008 and ran through mid 2010 then idled. Stored in a protected warehouse. This plant occupies an area approx 55 ft x 22.5 ft and tallest piece (hopper) is 15 ft. Sold as a complete milling system. For more information and photos of the components, ask for an invitation to the Virtual Data Room (VDR).</p> <h3><i>Very Good Condition. Ran less than 1000 hours - Fully Automated</i></h3> <p>Equipment is removed, in a warehouse, and ready to load.</p> <p>Major Equipment --> See Equipment List in Documents</p> <ul style="list-style-type: none">• Loading hopper• Grain seed cleaner sieve• Destoner• Degerminator• Classifier• Blender• Byproduct collecting beam and filter• Rolling mills• Purifier and filter• Grits and flour transport line• Pneumatic clamp tissue tightener <h3>Operation</h3> <ul style="list-style-type: none">• Very low hours: Less than 1000 hours. (Paint is still on the augers)• Built 2008, ran through mid 2010• Briefly started again in 2013/2014 but never was operational - idled again• Started again in 2022 to check out operation. Ran some corn to verify good working condition• No major issues known	Used - Excellent
		Illinois

Listed in Category Order. Click on an Asset Name for more details.

<u>Hydrogen Gas Plant 7 MM SCFD</u> Asset ID: PK-4000 Linde HydroChem	Hydrogen generating plant rated at 7 MM SCFD (million standard cubic feet per day or 16.5 TPD). Reconditioned w/ warranty. Pressure at PSA of 200 psig then gas compression to 650 psig. H2 steam methane reformer design (SMR). Nearly NEW and lightly used. Plant can handle a turndown rate from 4 MM to 7 MM SCFD. Steam export 13,000 lb/hr. Designed to meet California's regulations. Plant is offered removed, reconditioned, with EPC and supervision for installation (installation labor by customer - all obligations clearly listed in the proposal document). Full Presentation Proposal document available on request with NDA including entry into data room. Natural gas fired 450 psig, H2 production at 200 psig of 99.99% pure hydrogen. Plant originally ran in Oklahoma in 2018 for 6 months and has now been removed and stored in Houston. Was operating as a syngas generation plant but will be modified by adding a Water Gas Shift unit, an optional Pre-Reformer unit (added cost) and a Pressure Swing Adsorption unit. First year spare parts and annual maintenance parts included. Allow time to engineer and recondition - Warranty and Process Guarantee provided.	Reconditioned Texas
<u>Hydrogen Gas Plant 90,000 scfh (Partial)</u> Asset ID: 6530 HydroChem	<p>Hydrogen Generating Plant (partial)</p> <ul style="list-style-type: none"> Design capacity is 90,000 scfh at 200 psig with a purity of 99.99% pure hydrogen - was running on 10 of its 20 tubes for 45,000 scfh capacity. Burner has been changed out to run the 45,000 scfh capacity. Reformer can be fired on natural gas or propane - same burner. Waste heat boiler generating 3,000 to 5,000 #/hr export steam at 250 psig. PSA plant (4 psa vessels replaced in 1998) with Jamesbury valves kept up to date, Quench pot design. Plant is missing small natural gas compressor, heat exchangers, and pumps. Has new tubes, new reformer, and new shift converter catalyst. Five (5) spare tubes available. <p>Engineered by Hydro-Chem built in 1980. . Plant was shut down in mid 2012, and proper shutdown procedures were followed. Reformer tubes are 6.625" OD, 5.25" ID, 30.825" long and made of alloy HP50 (also known as 25/35)</p>	Used - Good Nebraska
<u>Hydrogen PSA System 750K scfd</u> Asset ID: PK-5103 HydroChem	<p>PSA system (pressure swing adsorption)</p> <ul style="list-style-type: none"> Built by Hydrochem in 1998 - never put in service. Rated at 750,000 scfd (standard cubic feet per day) = 30,000 scfh. This is an 8-bed design using Valteck valves. Vessels all are ASME pressure vessels MAWP 270 psig at 150F. Includes Dresser Rand hydrogen compressor on skid - discharge pressure 400 psig - MAWP 440 psig. See all nameplate details transcribed in photo. Compressor cylinder type VIP, nominal bore 12.5 inch, 1250 rpm, serial number 3VC200 <p>Adsorbents not included. Now in storage ready to load</p>	New, Old Stock New York

Plants/SynGas		1 Items
<u>Syngas Plant 15.7 MMSCFD</u> Asset ID: PK-4003 Linde HydroChem	This syngas unit was designed by Hydro-Chem (now Linde) to use landfill gas and / or natural gas to produce synthesis gas, which is then converted into paraffinic naphtha, diesel and wax by Fischer-Tropsch process. Major Equipment of this unit includes Reformers #1 & #2, Feed Heater, Feed Superheater, Hydrodesulfurizer, Flue Gas Steam Generator, Reformer Effluent Steam Generator, Dirty & Clean Steam Drums and Blowdown Drum. The syngas output flow rate is 15.7 MMSCFD (or 18,500 Nm3/hr) at 500 °F and 175 psig. Ran in Oklahoma in 2016 for only a few months. Now removed and stored. Can be bought as-is or as a reconditioned package. VDR available upon request.	Unrated Texas

Listed in Category Order. Click on an Asset Name for more details.

Systems & Packages		2 Items
Evap System Asset ID: PK-6045 Unitech Titanium	Evaporator system rated at 45,000 lbs/hr. Unitech Titanium falling film evaporator manufactured in 1993 but unused until 2008 then operated for approximately 9 months. Includes Incoloy 825 vapor body, 15,862 SqFt heat transfer section with 872 Grade 2 Titanium 2 inch OD tubes x 36 ft long; and MVR compressor driven by a 500HP motor. Design train capacity is 92 GPM, distillate flow 83.95 gpm. This converts to 44,457 lbs/hr water evaporation. Price includes manual valves and selected ss304 and ss316 piping manifolds, and structural foundation for evap vessel and deaerator. Ladders, grating, and access steel also available.	Used - Excellent Saskatchewan
Scrubber System CO2 & Vent Gas Asset ID: PK-3201 SpecFab	CO2 Scrubber System. CO2 scrubber size: 60" ID x 31'-11" s/s tall, Vent gas scrubber size 48" OD x 31'-11" s/s tall. stack. Material ss304. Includes structural towers for both columns, Goulds 3196 size 1.5x3-6 PC-3201 centrifugal pump, Kice 15HP blower BL-3202, knock out pots, and all instrumentation and valves associated with this system. For a list of components, enter pk3201 in search on web site.	Used - Very Good Vicksburg, MS
Systems & Packages/Distillation		6 Items
Brine Distillation System Asset ID: 1725 RCC GE	GE brine crystallizer system for zero liquid discharge. Was originally RCC system built in 2006. Decommissioned in 2011. Complete system consisting of deaerator, crystallizer (approx 96 inches OD x 28 ft tall), rinse and waste tanks, APV plate heat exchanger, 5 Goulds pumps. Still installed. See links for drawings, P&ID and Process Flow Diagrams. We have drawings of major pieces of equipment on request. Price quoted includes contractor removal and loading estimate and is subject to change.	Used - Good MN
Distillation System - Corn Oil/Ethanol Asset ID: VR2 SRS	<p>Distillation System - for Corn Oil/Ethanol/Water Separation</p> <p>Skid mounted distillation system designed to remove ethanol and water from corn oil. Design capacity 10 gpm with infeed composition 95% oil and max 5% water/ethanol. Results: Corn oil output with 1000 ppm water max.</p> <ul style="list-style-type: none"> • NEW - never used. Built 2019 - never commissioned, in protected warehouse • Stainless steel 304L • Includes SRS SRDX-600 flash distiller packed column 3 ft dia x 15 ft tall. Serial number 022619 • Two 150 gallon tanks • Vacuum pump • Two centrifugal pumps • Four plate heat exchangers • Piping and instrumentation. • All components are wired to the control panel on skid, but no plc • Spec'd for 19 gpm of ethanol/water flashed to azeotrope <p>See Links for Equipment List and more details. P&ID available in Virtual Data Room (VDR) - ask for an invitation.</p>	NEW Texas

<p><u>Distillation System - Ethanol/Water</u> Asset ID: VR1 SRS</p>	<p>Distillation System - for Ethanol/Water Separation</p> <p>Skid mounted distillation system designed to remove ethanol from water. Design capacity 7 gpm with infeed composition 40% ethanol, 60% water, 7% phosphorus. Results: Water with less than 1% ethanol.</p> <ul style="list-style-type: none"> • NEW - never used. Built 2019 - never commissioned, in protected warehouse • Stainless steel 304L • Includes SRS SRFX-400 flash distiller packed column 3 ft dia x 17 ft tall, serial number 022519 • Two stainless tanks, 150 gallon and 300 gallon • Vacuum pump • Two centrifugal pumps • Five plate heat exchangers • Piping and instrumentation. • All components are wired to the control panel on skid, but no plc • Spec'd for 3 gpm of fatty acid/ethanol <p>See Links for Equipment List and more details. P&ID available in Virtual Data Room (VDR) - ask for an invitation.</p>	<p>NEW</p> <p>Texas</p>
<p><u>Distillation System - ffa/Ethanol/Water</u> Asset ID: VR3 SRS</p>	<p>Distillation System Enhancement - for ffa/Ethanol/Water Separation</p> <p>Skid mounted distillation system designed to remove ethanol from water. This skid was designed to be added to back of skid VR2 to further reduce the water content of the ethanol to 500 ppm-1000 ppm range. However, can also be a stand alone skid for reducing water/ethanol in other oil processes.</p> <ul style="list-style-type: none"> • NEW - never used. Built 2019 - never commissioned, in protected warehouse • Stainless steel 304L • Includes SRS flash distiller column 10 inches dia 12 ft tall, serial number 00619 • One stainless tanks 2 ft dia • Two centrifugal pumps • Two plate heat exchangers • Piping and instrumentation. • All components are wired to the control panel on skid, but no plc • Capacity of VR3 is 3 gpm and is designed to remove <30% ethanol/water from oil down to 1000 ppm. <p>See Links for Equipment List and more details. P&ID available in Virtual Data Room (VDR) - ask for an invitation.</p>	<p>NEW</p> <p>Texas</p>

Distillation System 2000 TPD Extraction Asset ID: PK-2500 TEAM Engineers	<p>Distillation System for 2,000 TPD Solvent Extraction Plant - NEW, Never Used</p> <p>Complete, new distillation equipment for a 2000 TPD solvent extraction plant except for the solvent extractor unit, extractor condenser, and main condenser. Equipment is stainless steel. This system was ordered and was never installed - sitting in laydown yard. We have detailed drawings and specs for each piece in the virtual data room - ask for an invitation. System includes:</p> <ul style="list-style-type: none"> • First and Second Stage Evaporators with separation tanks • Miscella tank No. 1 with level transmitter • Oil dryer plus level transnitter • Oil cooler heat exchanger • DT Condenser • Evaorator Condenser - Main Condenser • Stripper and recuperation condenser • Vent condenser • Steam jet vacuum system (4 steam ejectors) • Mineral oil recuperation system with LT & TT • Pumps (4) 	<p>NEW</p> <p>Mississippi</p>
Glycerin Methanol Recovery Unit Asset ID: 2362 Harvest Energy	<p>Glycerin Methanol Recovery Unit (GMRU) - Flash Distillation</p> <p>Manufactured by Harvest Energy - was installed and running at 4MGY Biodiesel Plant. Like New.</p> <ul style="list-style-type: none"> • Skid mounted flash distillation system • Designed at 2 gpm currently • Can be upgraded to 5 gpm by the manufacturer for \$18,000 additional over quoted price • Flash distillation column is 30" OD x 116" T/T rated at MAWP 50 psia/full vacuum. Carbon Steel • Previously installed in a biodiesel plant in 2013, ran consistently until removal in 2019 • This distillation unit has been blasted and repainted in 2020 - still idle. • Two Structural steel skids - Footprint size approx 19'-4" x 8'-6" • See the P&ID and Equipment list in Document Link for details on all equipment <p>System operates on a principal of distillation by vaporizing the methanol and water, then condensing it in a series of heat exchangers. Condensed methanol is held in a full vacuum vessel and pumped out via a rotary gear pump. Entire system operates under extreme vacuum conditions 25 – 30" Hg. Full vacuum affords process advantage by lowering vaporization temperature of methanol and providing carrier motive to pull vaporized methanol from glycerin and force it into condensers</p>	<p>Like New</p> <p>Nevada</p>

Systems & Packages/Dryer - Cooler

2 Items

Fluid Bed Cooler & Baghouse Asset ID: PK-FBST-31 GEA Barr Rosin	<p>GEA Barr Rosin static fluid bed cooler package for ring dryer. Size 7 ft W x 19 ft L x 18 ft OAH. Includes fluid bed cooler, baghouse filter and ducting. (See also asset # FBAG-31) Sized for 22,100 cfm. Weight 15,800 pounds. Still installed.</p>	<p>Used - Very Good</p> <p>Vicksburg, MS</p>
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Listed in Category Order. Click on an Asset Name for more details.

Ring Dryer Asset ID: DR-5201 Barr Rosin	Ring Dryer, GEA Barr-Rosin Used for drying wet cake DDGS but can be used to dry almost anything – such as hemp or other grains. Dries material from 65% moisture to 11% moisture, evap rate 66,463 #/hr. This dryer was designed to handle 112,861 wet infeed at 65% moisture and 440,000 #/hr dry recycle material. This design lends itself well for varying flows and moistures, and precludes clogging or clumping. Comes with Lo-Nox main burner natural gas fired 83 MMBTU, a 1200HP main fan, 2 combustion/exhaust fans 150HP, Fluid Bed Cooler and Baghouse, (2) paddle mixers, (9) drag and screw conveyors, (4) rotary valves, (4) cyclones, disintegrator. Designed for 67,109 #/hr wet grain + 45,752 #/hr syrup IN = 46,398 #/hr OUT Evap rate 66,463 #/hr Fan: 189,339 scfm 1300HP. Burner heat 83.1 MMBTU. See data sheet, P&ID, and GA in Links. Still installed. For list of components and their photos & description enter dr5201 in search box on web site	Very Good Vicksburg, MS
Systems & Packages/Edible Oil 2 Items		
Bleacher - 150 TPD Stainless Asset ID: 5718 DeSmet	DeSmet stainless steel vacuum bleacher for continuous bleaching. Total capacity is 150 tons per day. Size 5' diameter with 3.5" insulation, 14' tall. Demister pad section 4' diameter x 5' tall. OAH 19 feet. Includes 2 Krohne stainless steel mechanical flowmeters, one 1" and one 2". Includes additional side mounted small vessel and RTD for level control. Small vessel dimensions 1' diameter x 8' tall with 2" inlet. Includes 2 Masoneilan stainless steel 2" pneumatic control valves. Vacuum unit not available. Includes operators manual. Idled 2014. We have quoted removed and loaded but removal is an estimate. If serious, we can get a quote.	Kingston, Jamaica

<p>Fractionation System 118 MTPD Asset ID: PK-1200 DeSmet</p>	<p>Fractionation Systems Pressure 30 bar - for Edible Oil</p> <ul style="list-style-type: none"> TWO complete systems including all tanks, pumps, heat exchangers, fitters, and controls. Includes all piping and everything in this room. <p>78 MTPD System</p> <p>Fractionation system - supplied by DeSmet, rated at 30 bar (450 psig). System built 1997. Includes (18) vertical crystallizers and Industrierteren membrane filter (made in Belgium) with 69 plates polypropylene. Capacity 78 MTPD based on first fractionation Palm Oil – OR - 18 MTPD OUTPUT based on 2nd Fractionation = 10.5 million pounds product + 3.5 million pounds by-product. Capacity will vary depending on type of operation and oil.</p> <ul style="list-style-type: none"> Membrane filter for fractionation, made by Industrierteren Wijngaardveld AALST, Belgium. Serial 150 10. Type OGFP1500, rated at 30 bar. Has 69 plates, 1500mm x 1500mm. Filter cake volume = 2,875 liters (759.5 gallons). Filter area 255 sq m, with 25mm cake per cavity. Automatic with plc operator interface, on-board hydraulic system with dual acting cylinder. J4744 <p>40 MTPD System</p> <p>Fractionation system - supplied by DeSmet. System built 2000. Includes (6) vertical ss crystallizers and Filox membrane filter (made in Germany) with 36 plates polypropylene. Capacity 40 MTPD based on 1st fractionation Palm Oil – OR - 5 MTPD OUTPUT based on 2nd Fractionation = 2.5 million pounds product + 1.5 million pounds by-product. Capacity will vary depending on type of operation and oil. Stainless steel trough and auger system. Includes all tanks, pumps, electrical, and control systems.</p> <ul style="list-style-type: none"> Filox membrane filter for fractionation, rated at 30 bar (450 psig). Made by Filox - Filtertechnik GmbH, Germany. Type MKF150-36-250H, serial 2117. Has 36 polypropylene plates, 1500mm section - cake volume 1500 liters, cake thickness 25mm, 40.5 sq m filter surface area. Automatic with plc operator interface, on-board hydraulic system with dual acting cylinder. Hydraulic unit 15HP. Size 6535mm long x 2820mm wide x 2610mm tall, weight empty 34,785 kg. J4747 	<p>Used - Very Good</p> <p>Mexico</p>
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Systems & Packages/Slurry & Recirculation		2 Items
<p>Slurry Tank, Rectangular Asset ID: AF17</p>	<p>Slurry tank mixing and pumping system. TK-46 Backwater Tank. Stainless steel rectangular tank with 2 pumps at top. Size of tank is 4 ft x 4 ft x 3 ft tall. OAH 84". Two pumps are Penguin immersible pumps Model PX-15AK-HF driven by 15HP motor. Pump A has 15HP motor at 2850 rpm and pump B has 15HP motor at 3450 rpm.</p>	<p>Used - Very Good</p> <p>Illinois</p>
<p>Water Recirc System Skid Asset ID: AF97 Outotec</p>	<p>Slurry tank system consisting of skid with vertical stainless steel tank, (2) Grundfos pumps. SS skid size is 98" x 68" x 84" tall. No agitation - Tank size is 5 ft dia x 6 ft tall for capacity of 850 gallons. Flat bottom, dish top with hinged manway lid. (atmospheric). Grundfos pumps are CRN15-08 A-FGJ-G-E-HOQE. Model A96127009-P11101551 designed for 90 gpm at 528 ft hd. Turning at 3444 rpm. Motor is 15 HP 3500 rpm 460/3/60. Supplies pressing water to Outotec Larox PF1.6 filter system. Part of Outotec Larox Pressing System</p>	<p>Illinois</p>