

Pacific Biodiesel Technologies (now Sequential Pacific Biodiesel LLC):

PESCO-BEAM have designed and built several modules for Pacific Biodiesel's Salem, Oregon plant. The systems designed and built by PESCO-BEAM recover and purify the biodiesel as well as some of the byproducts from the process such as glycerin and methanol. These modules, which include evaporators and methanol recovery columns and vacuum systems, were commissioned in October – November 2008 and are performing very well.



Pacific Biodiesel modules under construction and being shipped

Heartland Petroleum LLC.

PESCO-BEAM have designed and built a 2,000 gallon per hour used oil re-refinery. This plant is now fully installed and was commissioned in the in the week of December 8th. The plant is performing exceptionally well, and has processed 2,800 Gallons per hour, 40% over design rate.

Contact: Jamie Smith – Plant Engineer 740 207 8030

Telephone: (614) 441-4001, Cell Phone (614) 554-6820

Email: web site: www.heartland-petroleum.com.



Heartland Petroleum Plant in operation at night.



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American Distillation Inc. (ADI):

ADI recycles wastes from pharmaceutical and other industries, [mostly alcohols]. PESCO-BEAM have designed 3 of the systems used by ADI for recovering and distilling alcohols. **Two of the fractionation systems PESCO-BEAM has built for ADI separate alcohols and other solvents from water. PESCO-BEAM has also supplied a molecular sieve to dry ethanol & other alcohols.**

Address: 1690 Royster Road, Leland, North Carolina 28451, USA

Contact Person: **Will Oliver, Part owner and Plant Engineer:**

Ph. # 800 441 2586, Fax # 910 371 2971, **Mobile phone - 225 405 8321, (Most easily reached on mobile phone as he travels between Alabama and NC)**



Alcohol Distillation System and Molecular Sieve

Summit Foods, Ashland, Oregon:

PESCO-BEAM has designed and built an Ethanol Distillation System and Molecular Sieve for Summit foods of Oregon. They have installed a novel waste treatment system which converts the waste starch and sugar from their food processing business into ethanol, which is then distilled and dried into Fuel Grade Ethanol in our system.



Summit Foods Distillation System and Molecular Sieve

Wren Oil Pty Ltd. - Lot 4, 37 Harris Rd, Picton 6229, Western Australia

PESCO-BEAM designed, built, and commissioned our first 1000 liter per hour used crankcase oil recovery system for Wren Oil in **1996**. This unit produced diesel, light lube, and #4 fuel oil from waste crankcase oil, and has been in production for almost 20 years. Wren oil has commissioned PESCO-BEAM to add an additional forced circulation evaporator and fractionation column in 2003. In 2013 Wren Oil commissioned PESCO BEAM to design and build a Solvent Extraction System which will improve the quality of the base lube it is producing. This system was commissioned by the end of 2014 and has been operating flawlessly since then. In July 2014 Wren Oil executed a contract with PESCO BEAM to expand their distillation capacity to 7,500 Kg. per hour and we have now completed the first phase this system.

Contact David Wren, Managing Director, Phone # [61] 97 25 4002, Fax # [61] 97 25 4847



Wren Oil Plant



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Wren Oil Plant expansion

Comolube

Comolube of Duluth, Minnesota has a PESCO-BEAM used oil recovery system which went into operation in the Summer of 2007, and produces a group 2 base lube from used lube oil. The system includes our Regenerating Clay technology. It has been in production for 6 years.



Encore Energy LLC. (Encore 1 Plant)

In 2001 Encore Energy of Reno, Nevada, has joined Oil Re-refining company of Portland, Oregon, to purchase and install one US based PESCO-BEAM Oil RE-refinery. This system was installed in Late 2003 and has been running for over 10 years. The system produces MDO. Design Capacity 800 GPH, Has operated at over 1,000 GPH. It is now owned and operated by American Petroleum Environmental Services (APES) of Seattle, Washington. Contact Mike Mazza, Owner - Phone 253 538 5252, Email mmazza@apes-inc.com



Encore 1 Plant in Portland, Oregon

Encore Energy LLC. (Encore 2 Plant) – Fallon, Nevada.

PESCO-BEAM designed, built, and commissioned the second plant for Encore in Fallon, Nevada, near Reno. This plant had been producing for over 3 years now, and had been operating at 125% of the 800 GPH design capacity. Contact Ron Bell, plant manager.



Tankers Discharging Used Oil at Encore Plant 2 (Fallon, Nevada)

Local Oils LTD. (LOL):

PESCO-BEAM has designed and built an Oil Re-refinery for Ewart Harney, owner of Harney Motors in Antigua. The plant has been operating for over two years. This plant produces Diesel Fuel for the Bus Fleet in Antigua, and Asphalt for road building. Design capacity 60 GPH.

Contact: Ewart Harney - (268) 726-9826



Local Oils Limited Plant in Antigua

SOLUTION RECOVERY SYSTEMS, INC.

Solution Recovery Systems, Inc. of Anne Arbor, Michigan recently commissioned PESCO-BEAM to design and build a Mobile **Rolling Mill Oil** Recovery System for their company. The system is the most sophisticated high vacuum distillation system ever put on wheels, and is recovering virgin quality rolling mill oil on site now. The entire system is contained in a box trailer and is completely mobile. Design Capacity 300 GPH.

Contact: Tom Czartoski, President, SRS Inc. Anne Arbor, Michigan. Telephone: 734 426 9015



Solutions Recovery System Inc. Mobile Distillation Unit being installed

[Pollution Control Industries, Now Tradebe Environmental Services, LLC](#) of Chicago, Illinois. PESCO-BEAM has designed and built a 1,200 Liter per hour **hazardous industrial solvent** recovery system for PCI. It separates light hydrocarbons from a middle cut oils and heavy cut oils, as well as from solids. The system has been in operation since early 2005. Since then PCI has ordered and received a second Solvent Recovery System from PESCO-BEAM which includes a thin film evaporator. This system has been commissioned in June of 2009 and has been operating since then. Design capacity 500 GPH.

Contact: Steven Thomas, Distillation Manager, Tradebe Environmental Services, LLC, Office: 1-219-397-3951 x2398

www.tradebeusa.com



Tradebe Mixed Solvent Recovery System in operation

Brent Industries Inc., of Brent, Alabama, a large industrial laundry company purchased two **Xylene** re-distillation systems from us in 1995 and 1996. PESCO-BEAM continues to advise Brent in the operation and maintenance of these systems. At each facility they process 135,000 liters per day each of contaminated xylene, which would otherwise have to be incinerated or disposed of as a hazardous waste. The PESCO-BEAM systems recover 98% of the solvent for reuse in their own laundry. PESCO-BEAM designed and built these systems, which consist of flash evaporators and vapor fed fractionation columns. They separate the cleaning solvent from dirt, grease, dye, and from other solvents. These systems have been operating successfully for over 12 years. Contact Person: Royce Willie [Owner] – cell phone - **419-708-5555** or **Bill Lange - 774-696-1815**

Brent Industries System - Design Capacity – 1,500 GPH



[Sartomer Inc.](#) of Chatham, Virginia. PESCO-BEAM has designed and built a 3 column fractionation system for Sartomer, which separates **Toluene and Heptane** from polymers and from each other (this is a very complex separation). This system was commissioned in June of 2000, and has been recovering clear on spec product for re-use in the plant for over 13 years. This system is totally automated and operates with minimal attendance. Design Capacity 120 GPH.

Phone - (434) 432-3706, Tim Lineberry– Plant Manager



[Sartomer Solvent Recovery System](#)

VEDCO LLC:

In 1998, PESCO-BEAM designed and built a state of the art solvent recovery facility in Roanoke, Virginia. The facility includes a forced circulation evaporator, combined with set of Stainless Steel Packed Columns. The system includes a vacuum system capable of achieving vacuums down to 25 mmHg. This state of the art fractionation system can process many different solvents to better than Virgin Solvent Purity. For the past 10 years the system has been processing primarily Mono, Di and Tri Ethylene Glycol, (from Polyester Manufacturers) separating the various glycol fractions from each other and from polymeric solids, and water. Contact Bill Melvin - Eden Custom Processing – Roanoke.

VEDCO LLC Glycol Recovery System



ECP Flexible Solvent Fractionation System



Eden Custom Processing LLC (ECP):

In 2002, PESCO-BEAM designed and built a state of the art solvent recovery facility in Eden, North Carolina. The facility includes a large Hastalloy C thin film evaporator, combined with a set of Stainless Steel Packed Columns. The system includes a vacuum system capable of achieving vacuums down to 50 mmHg. This state of the art fractionation system can process many different solvents to better than Virgin Solvent Purity. This system has been processing primarily NMP combined with salts, water and other contaminants. It has been doing this for Solvay, and returns the NMP back to Solvay for reuse.

Contact: Glenn Austin, Owner – (cell phone) 540 798 7021, Office: 540 427 4000

Green View Technologies (GVT) – Rollinsford, New Hampshire:

In 2011 PESCO BEAM designed and built a Used Motor Oil Re-refinery for GVT. The system was brought on line in 2012 and has been producing Group 2 API Approved Base Lube since then. Contact Mark Wentworth, Owner: Mark Wentworth [markw@gvtoil.com], phone – 603 767 0518



GVT ULO Re-refinery



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GVT Computer Control System

NUSETT LLC – Salt Lake City, Utah – In 1995 PESCO-BEAM built a glycol recovery system for a waste recovery company in Salt Lake City. This system has been recovering MEG from various waste streams for over 14 years.

Contact Mike Redd, part owner and manager: Phone 801 977 0220

PESCO-BEAM has designed, built and commissioned 25 other solvent and oil recovery plants throughout the world. Of these at least 17 are still operating, with some of the other plants shut down only after the owning company ceased its operations.