

Saving The World Is Our Business
Veolia Environmental Services Recycling Solutions
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It seems you can't be exposed to any media today without being overwhelmed by the 'green wave' washing over America. From the ridiculous to the sublime, it seems nearly every product or service can be touted as green. New terms, like greenwashing, have been coined to deal with this Madison Avenue blitz. Simply put, consumers can spot truth through the whitewash.

Veolia Environmental Services' Technical Solutions (Veolia) business, on the other hand, has been legitimately green long before it was trendy to say so. Veolia has been providing recycling solutions to generators of hazardous, universal and non-hazardous waste for nearly 30 years. These recycling solutions focus on metals, e-waste and solvents.

Metals

If spent acids and caustics are disposed of, then they are considered a waste. But when recycled as a feedstock to make a product, or used as a substitute for other commercially available products, these spent caustics are excluded from regulations as hazardous waste.

Veolia has developed a process that can exempt your waste metal-bearing sludges, acids and caustics from RCRA regulation. Their manufacturing process enables them to recover copper, tin and precious metals from sludge generated in the chemical conversion of aluminum and in electroplating operations. Acids and caustics from a wide variety of sources are used to recover metal from plated metals. The process avoids the costly problems of treatment, reporting and future liability.

Additionally, Veolia has developed a process to produce custom feeds for smelters from various sludge, grindings, filter cakes and residues generated in manufacturing operations. Hazardous or non-hazardous sludge may be processed into a raw material that substitute for metal concentrates and ores used by smelters.

E-waste

Veolia has four electronics recycling facilities located throughout the United States. The facilities process a wide variety of items for recycling: products containing mercury, such as lighting waste, switches, gauges and thermometers; e-waste containing metals and precious metals, such as laptops, printers, CRT's and fax machines; electrical equipment with and without polychlorinated biphenyls, including transformers, bushings, switches, lighting ballasts, capacitors; and batteries.

Veolia is the largest commercial recycler of lamps and ballast in the US, capable of processing up to 250,000 lamps per day. They provide recycling services to customers who represent many different industries, including utilities, municipalities, lighting

contractors, government agencies, hospitals, distribution centers, retail groups and many other types of large companies.

Solvents

Veolia operates five facilities located throughout the United States that manage organic, Btu-rich materials. Services and capabilities include solvent recovery, energy recovery and ethanol production.

On-site recycling minimizes waste and reduces both transportation and disposal costs for virgin solvent. Veolia Environmental Services' technical expertise and operating experience will help you realize the benefits of on-site recycling. They can install and/or manage on-site recycling equipment.

Tolling reduces the cost of solvents used in manufacturing. With tolling, Veolia accepts used solvents from customers, reclaims the solvent to predetermined specifications and returns the reclaimed solvent to the original generator for reuse.

The beneficial reuse option allows companies to convert waste to products and minimize waste. Veolia can accept used solvents from a generator as a product and then manage the solvent to an audited third party to utilize as a raw material during a manufacturing process.

Veolia accepts used solvents from a variety of customers and reclaims the solvents to our specifications. We then deliver the clean solvents to third parties who use the material as a replacement for virgin solvent.

In addition to offering solvent tolling, beneficial use and reclamation, Veolia also offers traditional energy recovery, or fuels blending, at the same four locations. Using this process the Btu value of the waste is used to displace fossil fuels at cement kilns.

Veolia's newest and greenest recycling facility produces ethanol for use in the fuel market. Veolia offers secure brand destruction services for industrial and consumer products. These products may include bulk liquids, returned packaged goods or products that are expired or cannot be sold for other reasons, and ethanol containing waste from manufacturing processes. Among the consumer products that may qualify are mouthwash, flavorings and perfume.

Once the packaging is destroyed, these products are used to produce ethanol. One potential use for the recovered ethanol is as a high-octane automotive fuel that is blended with gasoline to reduce particulate emissions and our dependence on foreign crude oil.

This recycling alternative eliminates the need for disposal which may carry the environmental liability in the future. Sending industrial ethanol for disposal through incineration or fuel blending may subject that waste to Subtitle C of the Resource Conservation Recovery Act (RCRA). One way to exempt industrial ethanol from RCRA regulation is through reclaiming the material. Producing ethanol from discarded products

is a cost effective solution with the added benefit of producing a positive environmental impact.

In the near future Veolia will accept non-alcoholic beverages for recovery. The product will undergo the same processing with the additional step of fermentation.

Veolia Environmental Services' recycling solutions, no environmental whitewash here, just legitimately green solutions for many of today's waste challenges.

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Ethanol recovery distillation unit, Veolia Environmental Services' Medina, OH