



IOT-ENABLED
**ON-SITE
SOLVENT
RECYCLING**

A SOLVENT RECYCLING SYSTEMS REPORT



THE PROBLEM

According to the EPA, reducing solvent waste is currently one of the most important elements of pollution prevention (P2) programs nationwide.

Solvent use, in general, is a leading source of hazardous waste, contributing to air and water pollution.



THE PROBLEM

On-site solvent recycling systems exist to change this, but they're not affordable and convenient enough for smaller facilities.

The operational cost for disposing solvent waste off-site can be \$4,000 per year vs. just \$355 for on-site recyclers. But it may take 2 years to see an ROI on a purchased solvent distillation unit.

THE FACTS

While necessary for some solvent wastes that require hazardous disposal specialists, off-site solvent recycling is not cost-effective or sustainable.

Disadvantages of off-site solvent recycling

- High volume of hazardous wastes
- Increased virgin solvent purchase and disposal costs
- Cannot acquire small generator status
- Short solvent shelf life
- Requires EPA permit and reporting
- Liability for every drum of waste that leaves your facility





THE INNOVATION: ON-SITE IOT SOLVENT RECYCLING

Solvent Recycling Systems, a Bensenville IL-based company, uses IoT solvent recycling to apply predictive analytics to traditional solvent waste recycling. Solvent recycling on-site with a solvent recycler can significantly reduce labor costs, eliminate hazardous waste disposal costs associated with manual tank inspection, and raise productivity for facilities of all sizes. Any business model or industry, with any waste processing need, can use a cost-friendly solvent distillation unit to take the guesswork out of solvent waste management.



THE INNOVATION: ON-SITE IOT SOLVENT RECYCLING

For the plant or operations manager, Solvent Recycling Systems brings the added assurance that clean solvent recycling is available at all times with the ability to replenish virgin solvent on-site. Solvent recyclers will typically take a solvent inventory read-out every 1-8 hours depending on your needs, streamlining the supply chain management.



ON-SITE RECYCLING BENEFITS

On-site solvent recycling using IoT-enabled recyclers means you only have to respond to critical warning alerts, improving routing and shipment efficiency.

Manually keeping track of pickup routes and fill-levels are expensive and time-consuming procedures. With automated, alert-based solvent recycling, facilities can increase customer satisfaction and uptime, and adhere to corporate disposal & compliance regulations.



ON-SITE SOLVENT RECYCLING BENEFITS

- Receive a solvent read-out every 8 hours
- Restore 98% of dirty solvent to virgin quality
- Alerts in the distillation tank are sent to all parties
- Boost productivity for operations managers
- Automate chemical refills to never run out of solvent
- Stay EPA compliant (and reduce reporting)
- Avoid environmental hazards
- Reduce the reliance on virgin solvent



SOLUTIONS FOR ANY WASTE STREAM

As a “solvent-as-a-service” company, Solvent Recycling Systems supports both low and high waste stream facilities (e.g., dynamic manufacturers, paints and coatings, and pharmaceutical companies). If purchasing a still is not ideal for your facility, lease a solvent recycler or operate on a cost-per-use basis.

ABOUT THE COMPANY

At Solvent Recycling Systems, we provide a better and more sustainable model for solvent re-use and recycling. Our equipment is adaptable and durable enough to handle basic to complex manufacturing wastes while remaining easy to use and cost-efficient.

We look at the solvent waste issue as both a challenge and as an opportunity to invent industry-changing solutions. In fact, we've already made a number of significant advancements through our automated solvent recyclers. Our solvent recovery equipment can recycle virtually any solvent used in a wide variety of applications. The reduction in waste generation can make a critical difference in an operation's compliance status, often keeping levels low enough to reduce or prevent the need for additional paperwork, recordkeeping, and reporting.

We can help you achieve true value from your contaminated solvents.

FREE ON-SITE DEMO



SOLVENT
RECYCLING SYSTEMS LLC