

Massachusetts Toxics Use Reduction



CELEBRATING
25 YEARS

Toxics Use Reduction is a tool that we use continuously in our facility because we've found that the benefits are extensive – we are protecting worker health and the environment, improving efficiencies and saving money. Receiving the TURA 25th Leadership award validates our work and for that, we are very appreciative.

- Anuj Mohan, Chief Operating Officer, ChemGenes

Stainless Steel Coatings

- Reduced the use of xylene by 57 percent and eliminated the use of hexavalent chromium.
- Saved more than \$15,000 per year in reduced waste disposal costs.
- Reduced hazardous waste generation by 52 percent.
- Reduced energy costs by 20 to 25 percent and saved 14,500 pounds of CO2 emissions per year.



Shawmut Corporation

- Eliminated the use of toxic chemicals (TCE) by more than 431,000 pounds per year by:
- Implementing a TCE carbon adsorption system.
- Improved TCE capture system
- Extracted VOC's from products
- Improved clean-up operations
- Ultimately substituted less toxic and hazardous hot melt adhesive process – eliminating the need for TC
- Saved \$1.75 million as a result of process improvements and efficiencies

Columbia Manufacturing

- Recover 98 percent of the plating bath nickel and chromium chemistry.
- Implemented a closed loop system to recover water and chemistry - \$4 million expense
- Since 2001 Columbia has saved \$3.0 million in water and sewer fees
- Saved \$3.85 million in nickel and purchases and usage
- \$800,000 in chrome purchases and usage