

Direct Assistance Program

Success Stories

Consumer Product

NYSP2I assisted a children's furniture manufacturer by identifying alternative materials for a PVC-based biteguard and mattress enclosed in PVC. NYSP2I developed a set of metrics based on the *Cradle To Cradle™* design protocol and other attributes enabling alternative materials to be evaluated for potential human health impacts, environmental impacts and product functionality. On substituting the PVC with the alternative recommended by NYSP2I, it is estimated that the manufacturer:

- ◆ saves 5,400 pounds of PVC per year by replacing the bite guard, and
- ◆ saves an additional 1,500 pounds of PVC per year by replacing the mattress.

Industrial Product

TECT Corp. manufactures turbine blades used in the airline industry. The manufacturing process requires chemical etching of the turbines using a mixture of hydrofluoric and nitric acid. The cost of purchase and disposal of these hazardous materials totaled > \$400K annually. NYSP2I utilized a pollution prevention approach to reduce the quantity of hazardous waste generated. It is estimated that:

- ◆ hazardous waste will be reduced by > 360 tons per year, and
- ◆ the company will save \$250-300K per year.

What is the NYSP2I Direct Assistance Program?

Through the Direct Assistance Program, the New York State Pollution Prevention Institute (NYSP2I) works with New York State manufacturing companies to develop cost-effective and environmentally preferable solutions. It is a three-phase program involving:

1. **Scoping** — *initial contact and discussion with company, identification of improvement opportunities*
2. **Assessment** — *assist in development of baseline, product/process improvement recommendations, cost and engineering feasibility analyses*
3. **Implementation** — *technical assistance during implementation of recommended solutions, annual follow-up to track critical environmental and cost metrics*

Program Benefits Include

1. Reduced costs through:
 - ◆ Efficient resource utilization
 - ◆ Reduction or elimination of waste generation, disposal and/or regulatory fees
2. Innovative engineering solutions
3. Reduced environmental impact
4. Competitive positioning as an environmentally conscious business

Who We Are

NYSP2I uses a new approach that goes beyond compliance-driven activities and focuses on waste minimization further upstream in a process rather than utilizing traditional methods of waste treatment or disposal. NYSP2I programs identify opportunities and provide implementation assistance to make NYS companies more efficient and economically stronger by:

- ◆ reducing toxics
- ◆ reducing waste
- ◆ saving energy
- ◆ improving product quality
- ◆ conserving water
- ◆ reducing life-cycle costs
- ◆ creating and retaining jobs
- ◆ applying sustainable technologies

Would you like to discuss a project opportunity with NYSP2I?

For additional information, please contact us at (585) 475-2512 or nysp2i@rit.edu.

Funding provided by NYS Department of Environmental Conservation



**New York State
Pollution Prevention Institute**

Rochester Institute of Technology ◆ 111 Lomb Memorial Drive ◆ Rochester, NY 14623
585.475.2512, phone ◆ 585.475.6610, fax ◆ nysp2i@rit.edu ◆ www.nysp2i.rit.edu

Scope

Assess

Implement

"The Pollution Prevention Institute has proved a key partner in helping us navigate confusing environmental requirements. [NYS]P2I challenges us not merely to meet new regulations but to respond ahead of the curve ... in the ongoing struggle to reduce our environmental footprint. We are grateful to have their expertise at our backs!"

*Dana Wisner, Design Manager,
Community Playthings*