



Toxics Use Reduction Institute

# Supporting Green Practices in Small Businesses

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February 2009



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# Some Questions

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- Why does my bank want to support capitalization of environmental projects in businesses?
  - What are things to think about?
  - What assistance is available from the state TUR program?
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## Why do companies stay in Massachusetts?

It is a good place to live, with clean air, clean water and healthy neighborhoods.



# Globally: there are many signs that we are hitting the wall.

## ***Increased costs***

- Energy & peak oil
- Waste disposal
- Wars, storms & debt

## ***Unexpected costs***

- Contamination
- Sick buildings
- Liability, insurance
- Closed markets

## ***Unlivable communities***

- Violence
- Poverty & Inequity

## ***Regulatory compliance***

- Waste
- Stewardship
- Materials restrictions

## ***Public health***

- Environmentally induced cancer
- Air and water quality deterioration
- Obesity
- Learning disabilities
- Compromised immune systems
- Pharmaceutical waste

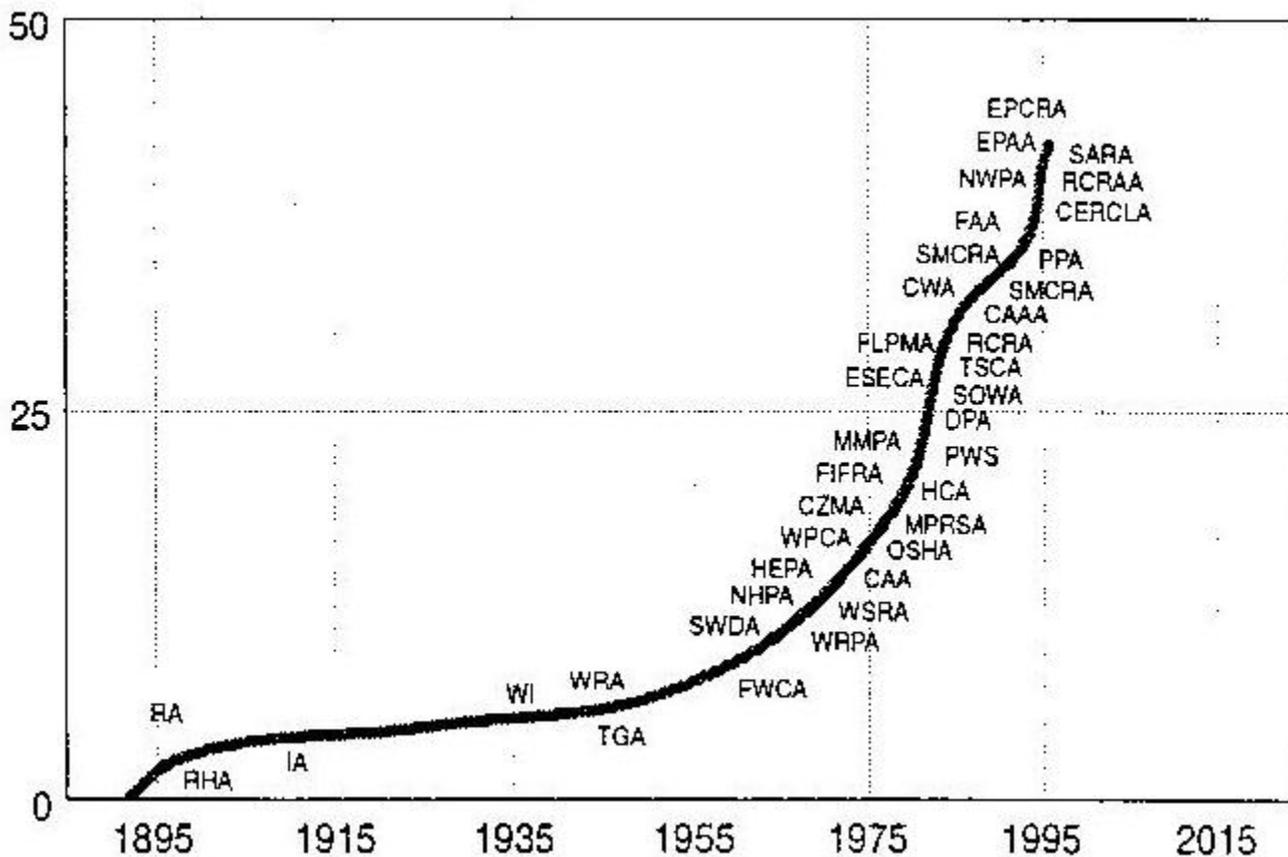




**Poor health -- affects worker productivity and student learning.**



# Regulations are increasing still in 2009



**Response to new science about impacts of toxic materials in our factories, homes and environment.**



# Some new regulations

1. TURA High Hazard List: Lower threshold (MA)
  2. **RoHS: Restriction Of Hazardous Substances**  
Bans Use of Lead, Cadmium, Mercury, Hexavalent Chromium, PBB/PBDE Flame Retardants in Electronic Products over entire lifecycle. Producers must manage post-consumer recycling and disposal, (EU and China)
  3. WEEE (EU and US states) Waste Electronics
  4. **REACH Registration, Evaluation and Authorization of Chemicals** Requires Registration & Risk Assessment of Chemical Substances, Possibly including downstream use in products
  5. ChAMP US response to REACH
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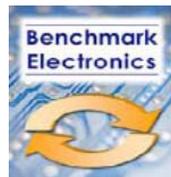


# More new restrictions

6. **EuP Energy Using Products** (A framework directive) Requires producers to design products that meet specific eco-design criteria over entire lifecycle.
7. **EPP Environmentally Preferable Purchasing** Buyers of good and services in states, institutions, federal government)
8. **LEED** green building certification framework
9. **ISO 14000 EMS, Responsible Care** management systems like quality management systems, critical for trade



# Companies Are Asking More from Suppliers



Raytheon



**RoHS**  
**WEEE**  
**EMS ISO 14000**

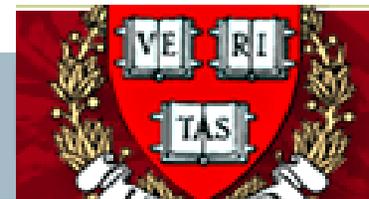
City of Boston



Environment and Energy Services Cabinet



Harvard Green Campus





# SMEs that think sustainably are better trading partners

## For big corporations, SMEs offer....

- Important source of **local supply and service**
- Extensive **local knowledge** of resources, supply patterns and purchasing trends
- Partners for **finding new customers** that may not be accessible to the traditional distribution networks of these corporations.
- Important source of **innovation** – SMEs tend to occupy specialized market “niches” and follow competitive strategies that set them apart from other companies



# What Does this Look Like?

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- **Environmentally Preferable Purchasing**
  - **Supply Chain Programs** (new contracts, training, standards, partnerships, competition)
  - **Green Design:** DfE, materials restrictions, alternatives assessment, total cost accounting
  - **Product Stewardship** (takeback, reuse)
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# TUR in SME

Smaller companies such as

- **dry cleaners,**
- **metal finishing shops,**
- **janitorial services,**
- **Assembly or repair,**
- **floor finishing,**
- **construction and**
- **small high technology** companies and more

realize the benefits of using less toxic materials and finding safer alternatives.

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# Where do You find answers?

- ☀ What is toxic?
- ☀ What are compliance issues in this sector?
- ☀ What do companies do in other regions?



☀ Who has already made changes?

## **TURI offers:**

- Website, Library and guidance material, experts.



# Is Change a Good Idea for this Facility?

☀ Was a Toxics Use Reduction Plan done?

☀ Are ALL costs counted?

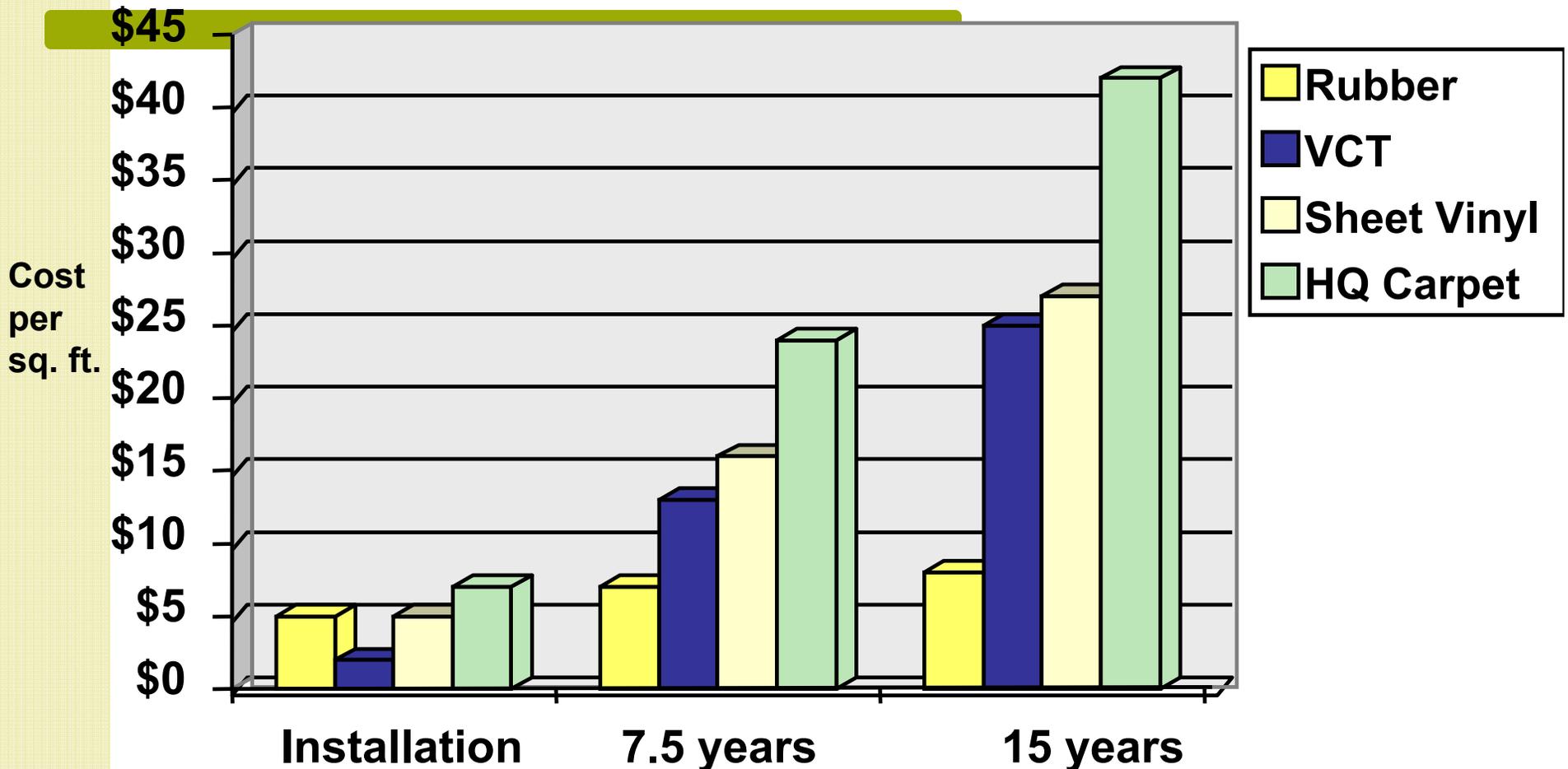


## **TURI offers:**

- Information on sector specific case information.
- Tools like Total Cost Accounting
- Process planning for TUR



# Installed versus life cycle cost for facility flooring, a hospital in Orlando



From "How to make business decisions for facility flooring" by Suzanne R Barnes, AIA . [Not included: \$ for occupant and worker health, safety, productivity, absenteeism, noise reduction or fall-induced litigation.]

<https://www.buildinggreen.com/auth/article.cfm?filename=120501a.xml>



# Are the Proposed Changes Good Ideas?

☀ Were the right  
People involved?



☀ How were  
choices made?

## **TURI offers:**

- Training, workshops and peer networks, demonstrations and research partnerships.
- Assessment tools and methods





# TURI has Questions for you

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Could we partner on our big projects:

- Perc in Dry Cleaning
- Lead in electronics

What should our staff do when we know a company has done its homework and needs capital for a good project?

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Toxics Use Reduction Institute



*Tools to Reduce Toxic Chemical Use at the Source*



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## Community

## Policy

## Training

## Laboratory

## TURAData

## Library

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### Who we are:

TURI provides services and grant programs to reduce the use of toxic chemicals, energy and water while enhancing the economic competitiveness of local businesses. It was established by the State's Toxics Use Reduction Act of 1989.

On this website you can find **green alternatives** to use in green designs that protect employees, consumers, and the environment. Check here for **training events**, **clean technology demonstrations**, and **grant deadlines**.

Connect to onsite business assistance for **energy efficiency and renewable energy**.

***We invite you to get Email updates! [Click here.](#)***

### Calendar 2009

- [Chemical Management Services Training Program](#) -- Feb 24th - 26th, 2009 - The Lenox, Boston, MA
- [TURA Advisory Committee Meeting](#) -- March 2, 2009, Boston, MA
- [Environmental Management Systems for Planners](#) -- March 5 & 12, 2009 - Westborough, MA
- [Meeting of the TUR Administrative Council](#) - March 10, 2009 - Boston, MA
- [Resource Conservation Day One](#) - March 19, 2009 - Leominster, MA
- [Planning for Environmental Management Systems for Professionals](#) - April 2 & 7,

### Online Tools

- [CleanerSolutions Database](#)
- [TURI Library Catalog](#)
- [TURAData](#)
- [Web Links at P2Gems](#)

