Toxics Use Reduction Act (TURA) Overview

TURI
TOXICS USE REDUCTION INSTITUTE
UMASS LOWELL

How TURA Works

Users of large amounts of toxic chemicals must:

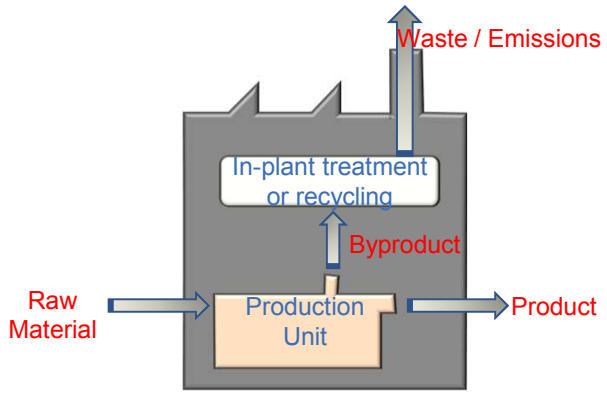
- ***Report*** **toxics use**
- ***Pay*** **fees**
  - **Funds support services to industry & communities**
- ***Plan*** **toxics reduction**

Massachusetts Toxics Use Reduction Act (TURA)

The Massachusetts Toxics Use Reduction Act (TURA):

- Enacted in 1989
- Helps Massachusetts companies and communities reduce their use of toxic chemicals while promoting the competitive advantage of Massachusetts businesses.

Reporting: Focus on USE



TURA Structure: Implementing Agencies

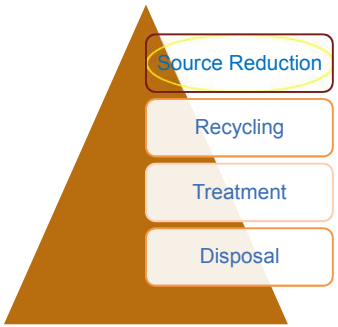
Massachusetts Department of Environmental Protection (MassDEP): Enforcement, filings, planner certification, data analysis, publications

Massachusetts Office of Technical Assistance and Technology (OTA): On-site, confidential technical assistance, training, publications, related activities

Massachusetts Toxics Use Reduction Institute (TURI): Training, grants, research, alternatives assessment, policy analysis, technical support, laboratory, library

TURA – Core concepts

- Focus on Use
- Focus on Hazard
  - Look for opportunities to eliminate or reduce hazard
- Focus on Planning
  - Diffusion of knowledge through certified planners
  - Businesses not required to reduce or eliminate any chemical



Core concepts, cont'd

- Avoid risk shifting
- Combination of mandatory & voluntary elements
- Primary prevention of disease by avoiding toxic exposures

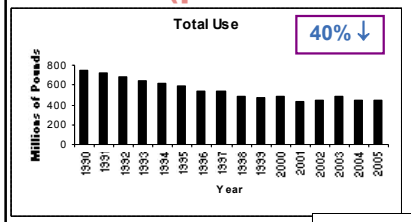
TURA Structure: Advisory & Decision-making Bodies

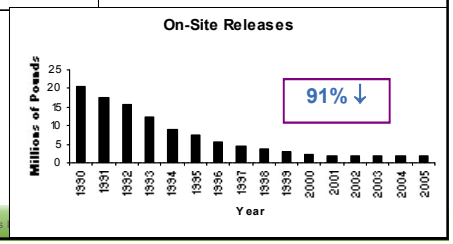
- ***Administrative Council***
  - Final decisions on regulation (listing & delisting, higher & lower hazard designations, & more)
  - State agencies responsible for environmental protection, public health, occupational safety, public safety, economic development
  - Interagency coordination on toxics
- ***Advisory Committee***
  - Provides advice to the Administrative Council
  - Broad spectrum of stakeholders
- ***Science Advisory Board***
  - Assures a scientific basis for decisions

Facilities subject to TURA requirements

- Large quantity toxics users in covered sectors with ≥ 10 FTE's
- Thresholds:
  - Manufactured or processed: 25,000 lbs
  - Otherwise used:10,000 lbs
  - PBTs:
    - Lead, lead compounds, & others: 100 lbs
    - Mercury, mercury compounds, & others: 10 lbs
    - Dioxin & dioxin-like compounds: 0.1 gram
  - Higher Hazard Substances: 1,000 lbs

TURA Results, 1990 – 2005 (production adjusted)



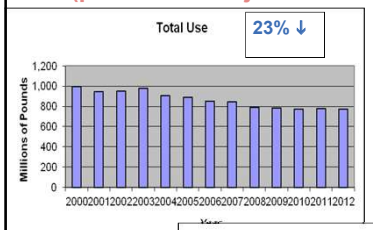


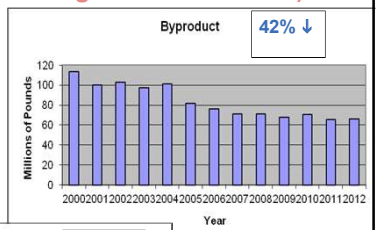
TUR Techniques

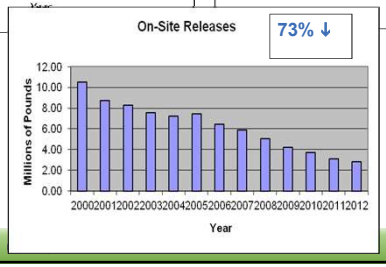
- Input substitution
- Product reformulation
- Production unit redesign, modification, or modernization
- Improved operations & maintenance
- Integral recycling

TURA Results 2000 – 2012

(production adjusted & excluding trade secret data)







TURI Resources & Activities

in partnership with MassDEP & OTA

- Education & training
- Grants
  - Large & small businesses
  - Municipalities, regional governments & community organizations
- Demonstration sites
- Alternatives assessment
- Laboratory & library services
- University research on safer alternatives
- Supply chain work groups
- Policy analysis

