



Water Conservation: An Opportunity Worth Exploring

Pam Eliason, TURI

Beth Fitzpatrick, RPS North America

Brian Pazol, MSI Transducers Corp

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Agenda



- Overview of Regulations
- Discussion of Reasons for:
 - Becoming a RC certified TUR Planner
 - Choosing RC planning every other cycle
- Case Study: MSI Transducers Corp

What is Resource Conservation?

310 CMR 50.10 Definitions

An action that decreases the use or consumption of a natural asset such as water, energy, or raw material, or

increases the efficiency of the use of the assets,

- without increasing risk to the public, workers, consumers, or environment and
- without increasing the amount of waste generated

Resource Conservation Natural Asset Areas

310 CMR 50.92 (2)



Energy
use

Water
use

Materials
and
products
that
contribute
to solid
waste

Toxic
substances
used below
threshold
amounts

Chemical
substances
exempt
from TURA
reporting

Facility-Wide Requirements

- Employee Notification
- Management Policy
- Scope of the Plan
 - Natural asset selected
 - Summary characterizing use of selected asset
 - Identification and ranking of opportunities for resource conservation
 - Descriptions of options identified for detailed evaluation
 - Summary of process used for identifying options
 - Description of options selected for implementation
- Expected change in facility-wide usage

Detailed Plan Requirements

- Process flow diagram
- Total amount of asset used
- Unit of product
- Purpose of asset in relevant operations
- Cost of asset in relevant operations
- Goals for reducing use of asset
- Procedures used to identify RC techniques and options
- List of all options potentially achieving resource conservation of the asset
- Screening of options
- Technical evaluation of options
- Economic evaluation of options
- Schedule for implementation

If You Choose to do RC Planning

Provide notice of the requirements of the Plan and solicit input from employees *on or before January 1st of the planning year*



Complete a Resource Conservation Plan



Submit to MassDEP a certified Resource Conservation Plan Summary (e.g., 2020)



Submit to MassDEP a Resource Conservation Progress Report with the next TUR Plan Summary (e.g., 2022)



Maintain Records

Plan Summary Form

Must be submitted to MassDEP by July 1 of applicable even-numbered year, and identifies:

- Asset Selected
- Selected Operations
- Baseline Amount of Asset Used
- Options Selected to Implement
- Other Options Considered
- Goals for Reducing the Asset
- Expected Change in Amount of Asset Used

Progress Report Form

Must be submitted to MassDEP by July 1 of applicable even-numbered year, 2 years after the RC plan summary. It identifies:

- Asset Selected
- Baseline Amount of Asset Used
- Status of Options Implemented
- Progress in Reducing the Asset
- Actual Change in Amount of Asset Used



Massachusetts
Department
of
ENVIRONMENTAL
PROTECTION

**RESOURCE CONSERVATION
PLANNING GUIDANCE**
**UNDER THE TOXICS USE REDUCTION ACT
(TURA)**

Published in accordance with MGL c. 211 and 310 CMR 50.00

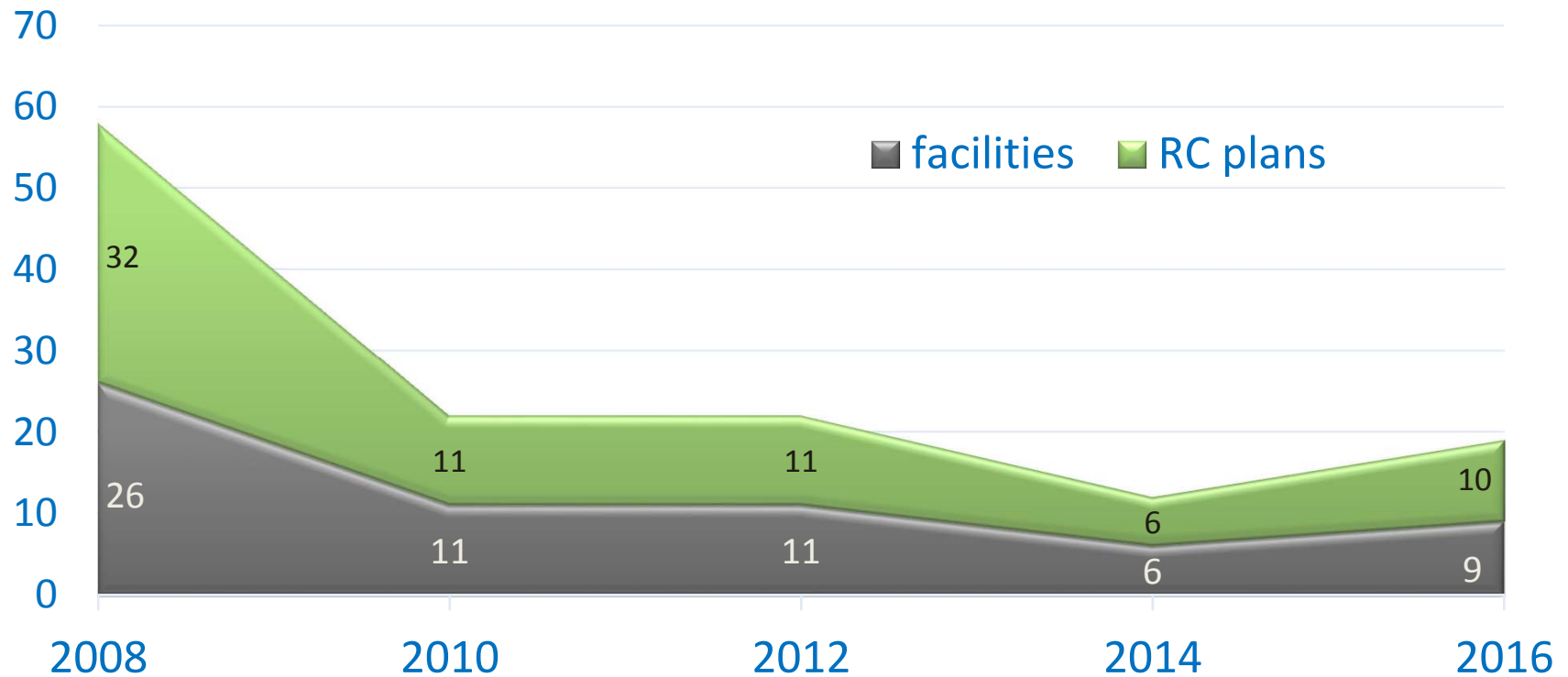
Developed in collaboration with:
Toxics Use Reduction Institute
Office of Technical Assistance and Technology
Executive Office of Energy and Environmental Affairs

Updated March 2014

<http://www.mass.gov/eea/docs/dep/toxics/laws/rcplguid.pdf>

Trends in RC Planning

Resource Conservation Planning Trends



Water Conservation Plan Summaries

In planning year 2016:

- 2 facilities completed water conservation plans
- Total water currently consumed = 37,523,000 gallons
- Expected reductions total 1,166,400 gallons (3%)

Contact

Mass DEP Website on RC Planning:

- <http://www.mass.gov/eea/agencies/massdep/toxics/tur/toxics-use-reduction-act-tura-planning-requirements.html>
- ***RC Plan Questions:*** Lynn Cain, MassDEP, 617-292-5711, lynn.cain@state.ma.us

OTA Website:

- <http://www.mass.gov/eea/grants-and-tech-assistance/guidance-technical-assistance/agencies-and-divisions/ota/>

TURI Website:

- www.turi.org