

Environment and Resource Efficiency Plans EREP

Kelly Heffer
EPA Victoria



Role of EPA: a modern regulator



“The Environment Protection Authority will be equipped to ensure Victoria becomes one of the first places in the world where the environment routinely becomes a business opportunity rather than a business cost.”

The Hon John Thwaites

Former Minister for Water, Environment and Climate
Change


EREP: the basics



- Who is involved in EREP?
 - Sites using more than **120ML/yr** water or **100TJ/yr** energy
 - ~250 businesses including food, plastics, petrochemical, paper manufacturing, energy suppliers, universities, hospitals, sports venues, shopping centres
- What do they need to do?
 - Self-assess resource use and **register** on-line – by March 2008
(done)
 - Develop **action plan** to reduce energy, water and waste – by Dec 2008
 - **Implement actions** with 3 year or better payback – 2008 onwards
 - **Report** on progress - 2008 onwards

Support to businesses



- EREP Guidelines
 - Plan checklist (Section 2 and App 6)
- Online EREP Toolkit 
- Training and Workshops
 - How to use toolkit
 - Sector specific information (Module 5)
 - Relationship to other programs (EEO, waterMAP etc)
- EREP Relationship Manager

Module 1: Overview

Module 2: A management systems approach to resource efficiency

Module 3: A resource efficiency site assessment procedure

Module 4: Calculating payback periods

Module 5: Resource management tools, and where you can get further help

Developing a Plan: Steps



1. Establish baseline data

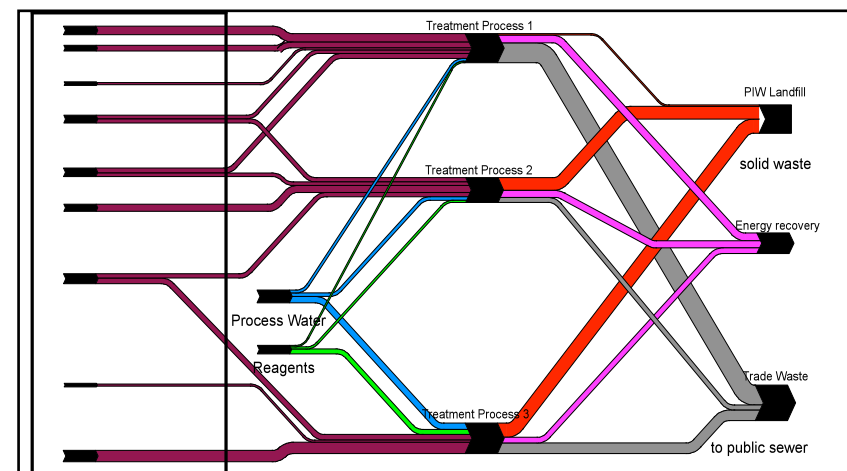
- representative of typical resource use? assumptions / anomalies
- at least 12 month period

2. Develop resource efficiency indicators

- relevant business activity measure (eg. water use/tonne, E use/unit production)

3. Assess energy, water using and waste generating activities

- Site walkthrough
- Audits
- Metering
- Mass balances / resource flow diagrams



SPC Ardmona: Shepparton



- Changes to cleaning practices included:
 - Reducing the diameter of hoses from 1" to 3/4"
 - Installing trigger nozzles
 - Cultural change (eg employing dry cleanup methods)



Water savings = **310ML/annum**

Payback = **less than 1 year**

The Paint Factory



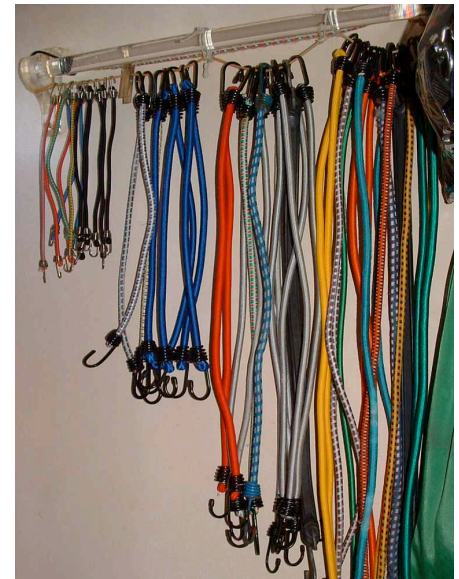
- High-pressure water gun
 - Cleaning time has decreased
 - 60% reduction in wash water volume
- Reuse of white wash water
 - Represents more than 60% of all wash water
 - Alteration to recipes
 - Raw material (eg thickeners) recycled
- Water savings **75,000L/annum**
- Implementation costs **\$5,915**
- Annual savings **\$28,200**



Flexibility



- Use existing, current supporting documentation (eg. audit reports)
- Flexible reporting periods
- Recognition of existing efficiency work (eg. waterMAP, EEO etc)



Other EREP program features



- Using environmental offsets:
 - Address an adverse environmental impact with an action at another location = **net environmental benefit**
- Using representative premises:
 - Using assessments of similar premises to identify actions

Website: www/epa.vic.gov.au/erep

Email: erep@epa.vic.gov.au

