

California Integrated  
Waste Management Board  
[www.ciwmb.ca.gov](http://www.ciwmb.ca.gov)



**Take It Back Conference - West**  
Implementation of California's  
E-Waste Recycling Program  
**San Francisco, CA**  
**March 3, 2004**

Board Member Mike Paparian  
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# E-Waste Recycling in California

## The Dilemma

- Storage – 6 Million Monitors/TVs
- Recycled – 20%
- Capacity – 16,000 TPY
- Obsolete – 10,000 Daily
- Transportation – Largest Cost
- Sales – Strong Through 2006



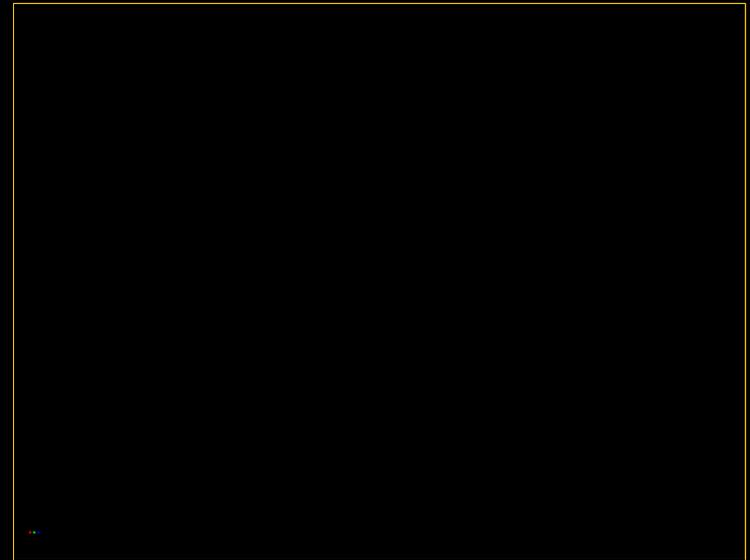
# Governor Schwarzenegger

## California

Strong Commitment to the Environment

*"Economic Growth & the Environment Can Co-Exist..."*

*...Jobs vs. the Environment is a False Choice"*

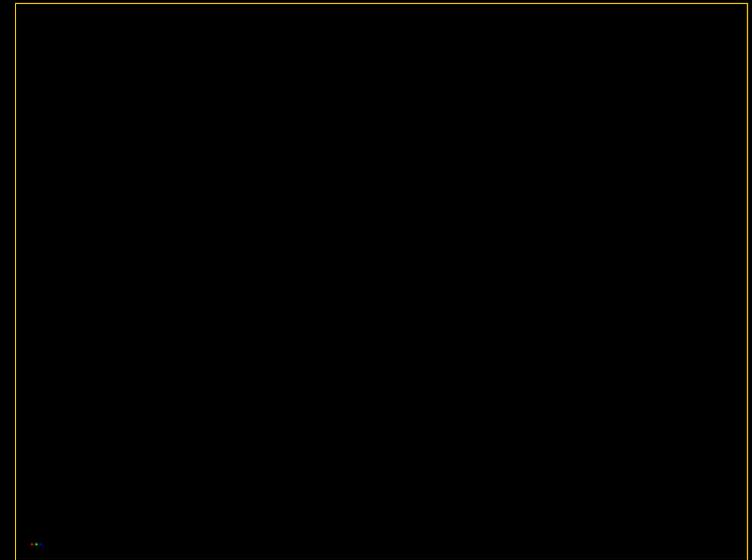


State of the State, 2004

# Secretary for Environmental Protection

## Terry Tamminen

- ❑ Supports Sound Environmental Programs in Tough Fiscal Times
- ❑ E-Waste Bill: "A Priority of This Administration"



Press Briefing - January, 2004

# Exportation of E-Waste Problematic

## Basel Treaty

- ❑ Signed by U.S. in 1989
  - ❑ Not Yet Ratified By Senate
- ❑ “Control of Transboundary Movements of Hazardous Waste & Their Disposal”
  - ❑ U.S. Does Not Participate
- ❑ Exportation of E-Waste
  - ❑ Not Sustainable
  - ❑ Significant Impacts



China, 2002

# E-Waste Recycling in California

## Previous E-Waste Efforts

- ❑ SB 1523 - Davis Veto in 2002
  - ❑ Strong Message Sent to Industry
- ❑ Cal/EPA Secretary & Papanian
  - ❑ Tasked To Lead Cal/EPA Efforts
  - ❑ Manufacturers Were Required to Meet European Directives/Goals
  - ❑ Manufacturers Asked to Apply European Experience to CA



Illegal Dumping - 2003  
Long Beach, California

# E-Waste Recycling in California

## Senate Bill 20

- ❑ Electronic Waste Recycling Act of 2003
- ❑ Senator Sher - SB 20 Author
- ❑ Important "First Step" to E-Waste Management



City of Napa, CA

# E-Waste Recycling in California

## What's in the Act?

- ❑ Consumers Pay Advance Recycling Fee
  - ❑ Point of Sale Collection
- ❑ CIWMB Will Disburse Payments
  - ❑ E-Waste Collectors & Recyclers
- ❑ Manufacturers to Limit Use of Hazardous Materials
  - ❑ Use of the European Directive (ROHS)
- ❑ State Environmentally Preferred Procurement Policy



Disassembly

# E-Waste Recycling in California

## Key Issues

- ❑ Scope & Definitions
- ❑ Fee Collection
- ❑ Recovery & Recycling Payment
- ❑ Manufacturer “Responsibilities”



# Scope & Definitions

## What's In, What's Out!

- ❑ Cathode Ray Tube (CRT)
- ❑ Computer Monitors & TVs
- ❑ Further Expansion - DTSC
  - ❑ As of March 1 Flat Panel & Laptop Included
- ❑ Fee Structure:
  - ❑ \$6.00 – 4" to 15"
  - ❑ \$8.00 – 15" to 35"
  - ❑ \$10.00 – 35" and Up



Drop-Off Program

# E-Waste Recycling in California

## Fee Collection

- ❑ Multitude of Retail Businesses (70,000)
  - ❑ Out-of-State Retailers
  - ❑ Internet Sales
- ❑ Our Experience in Fee Collection
  - ❑ Motor Oil
  - ❑ Tires
  - ❑ Tipping Fees
- ❑ Enforcement
  - ❑ Up to \$2500 Per Unit



# Recovery Payments to Collectors (Proposed)



# Recovery and Recycling Payment

## How Much, How Often, & To Whom?

- ❑ Financial Relief
  - ❑ E-Waste Recycler
  - ❑ E-Waste Collection
- ❑ Participation
  - ❑ Local Governments
  - ❑ Nonprofit Organizations



Electronics Partners Corporation  
Los Angeles, 2004

# E-Waste Recycling in California

## Time Frames & Deadlines

- ❑ April 1, 2004
  - ❑ What's In, What's Out
  
- ❑ July 1, 2004
  - ❑ Fee Collection
  - ❑ E-Waste Recovery/ Recycling Payment Schedule
  
- ❑ January 2005
  - ❑ All New Products Must Identify Manufacturer



Electronics Partners  
Los Angeles, 2004

# E-Waste Recycling in California

## Time Frames & Deadlines

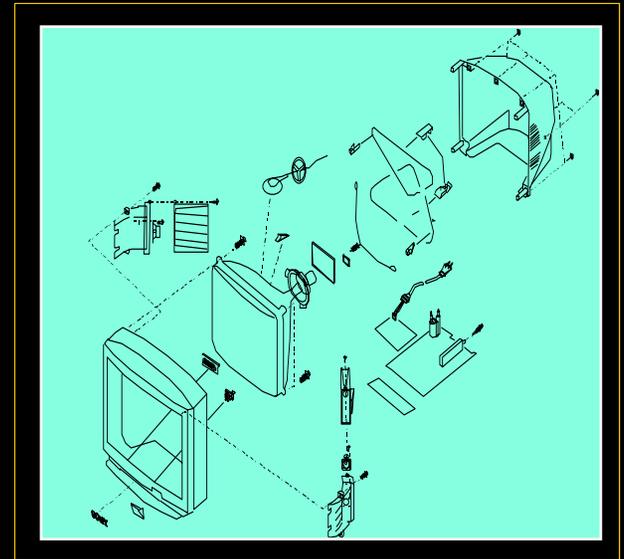
- ❑ July 2005
  - ❑ E-Waste Management Info.
  - ❑ Fee Adjustment
- ❑ July 2006
  - ❑ Payment Adjustment
- ❑ January 2007
  - ❑ DTSC Regulations
- ❑ July 2007
  - ❑ Fee Adjustment
- ❑ December 2007
  - ❑ CRT Stockpiles and Legacy Devices Gone



# E-Waste Recycling in California

## Manufacturer Responsibilities

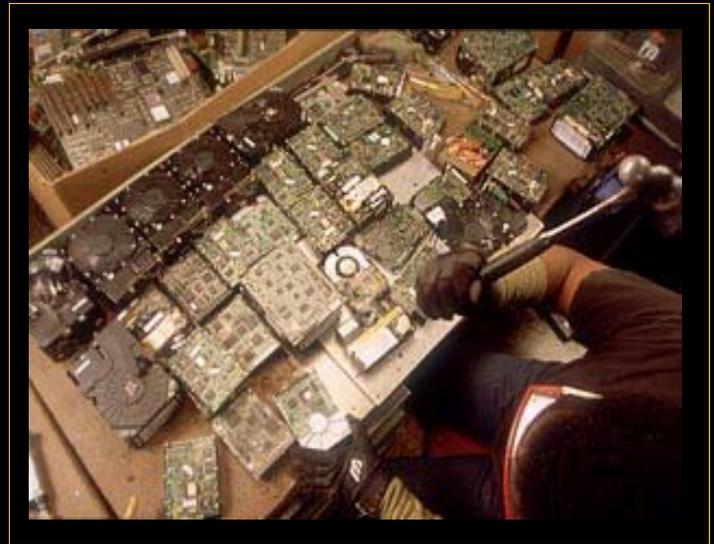
- ❑ Notify Retailers About Covered Products
- ❑ Provide Information to Consumer
  - ❑ Where To Recycle
  - ❑ How to Recycle
  - ❑ Where to Return
  - ❑ How to Dispose
  - ❑ Provide Toll-Free Number & Internet Web Site



# E-Waste Recycling in California

## Manufacturer Responsibilities

- ❑ Report Annual Sales
- ❑ Report Annually – 2005
  - ❑ Number of Devices Sold
  - ❑ Toxic Materials in Devices
  - ❑ Estimate Recycled Content
  - ❑ Design for Recycling Efforts
- ❑ Phase-Out of Hazardous Materials
  - ❑ EU Model by January 1, 2007



# E-Waste Recycling in California

## Retailer Responsibilities

- ❑ They are the Public Face of E-Waste Program
  - ❑ **Raise Public Awareness**
- ❑ Collect Fees on Covered Electronic Devices
- ❑ Remit Fees to State Board Of Equalization?
- ❑ May Offer Collection Services



Ventura County Collection

# E-Waste Recycling in California

## Commitment to Stakeholders

- ❑ Local Governments
- ❑ Private Recyclers
- ❑ Environmental Community
- ❑ Manufacturers
- ❑ Retailers
- ❑ Consumers



# E-Waste Recycling in California

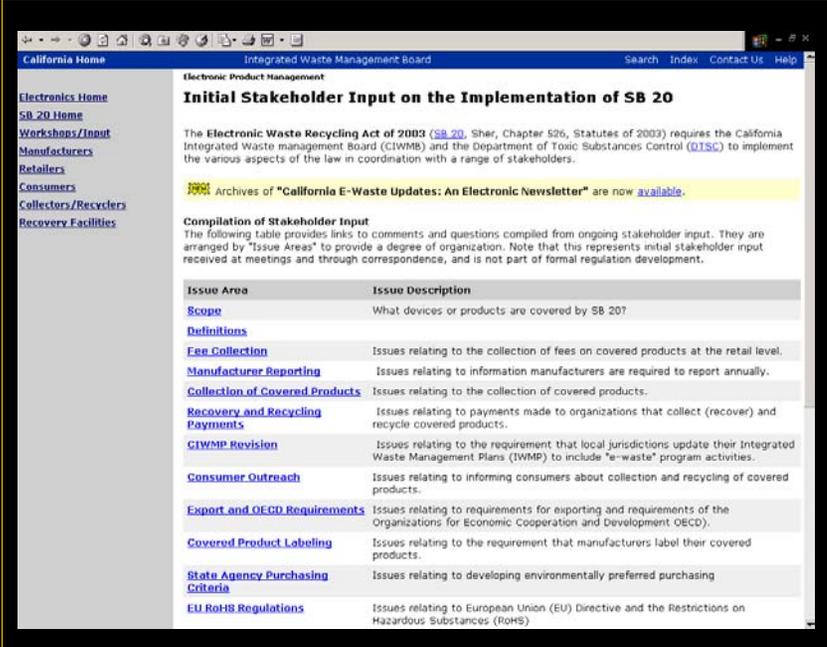
## CIWMB Web Site

- ❑ List Serve
- ❑ E-Mail
- ❑ Next Meeting: April 2<sup>nd</sup>
- ❑ CIWMB

Attn: Matt McCarron

P.O. Box 4025

Sacramento, CA 95812



The screenshot shows a web browser window displaying the California Integrated Waste Management Board (CIWMB) website. The page title is "Initial Stakeholder Input on the Implementation of SB 20". The content includes a paragraph about the Electronic Waste Recycling Act of 2003 (SB 20) and a table of stakeholder input issues.

**Initial Stakeholder Input on the Implementation of SB 20**

The **Electronic Waste Recycling Act of 2003 (SB 20)**, Sher, Chapter 526, Statutes of 2003 requires the California Integrated Waste management Board (CIWMB) and the Department of Toxic Substances Control (DTSC) to implement the various aspects of the law in coordination with a range of stakeholders.

2003 Archives of "California E-Waste Updates: An Electronic Newsletter" are now [available](#).

**Compilation of Stakeholder Input**  
The following table provides links to comments and questions compiled from ongoing stakeholder input. They are arranged by "Issue Areas" to provide a degree of organization. Note that this represents initial stakeholder input received at meetings and through correspondence, and is not part of formal regulation development.

Issue Area	Issue Description
<a href="#">Scope</a>	What devices or products are covered by SB 20?
<a href="#">Definitions</a>	
<a href="#">Fee Collection</a>	Issues relating to the collection of fees on covered products at the retail level.
<a href="#">Manufacturer Reporting</a>	Issues relating to information manufacturers are required to report annually.
<a href="#">Collection of Covered Products</a>	Issues relating to the collection of covered products.
<a href="#">Recovery and Recycling Payments</a>	Issues relating to payments made to organizations that collect (recover) and recycle covered products.
<a href="#">CIWMB Revision</a>	Issues relating to the requirement that local jurisdictions update their Integrated Waste Management Plans (IWMP) to include "e-waste" program activities.
<a href="#">Consumer Outreach</a>	Issues relating to informing consumers about collection and recycling of covered products.
<a href="#">Export and OECD Requirements</a>	Issues relating to requirements for exporting and requirements of the Organizations for Economic Cooperation and Development (OECD).
<a href="#">Covered Product Labeling</a>	Issues relating to the requirement that manufacturers label their covered products.
<a href="#">State Agency Purchasing Criteria</a>	Issues relating to developing environmentally preferred purchasing
<a href="#">EU RoHS Regulations</a>	Issues relating to European Union (EU) Directive and the Restrictions on Hazardous Substances (RoHS)

[www.ciwmb.ca.gov/Electronics/](http://www.ciwmb.ca.gov/Electronics/)

**Our Commitment  
to Implementation  
is Strong . . . . .**



**“I recycle more with  
my pinky than you  
do with both hands.  
Recycle now,  
thank me later.”**

**RECYCLE HARD**

California Environmental Protection Agency  
California Integrated Waste Management Board

Michael Paparian, Board Member

[www.ciwmb.ca.gov/electronics](http://www.ciwmb.ca.gov/electronics)

