

# GAIA

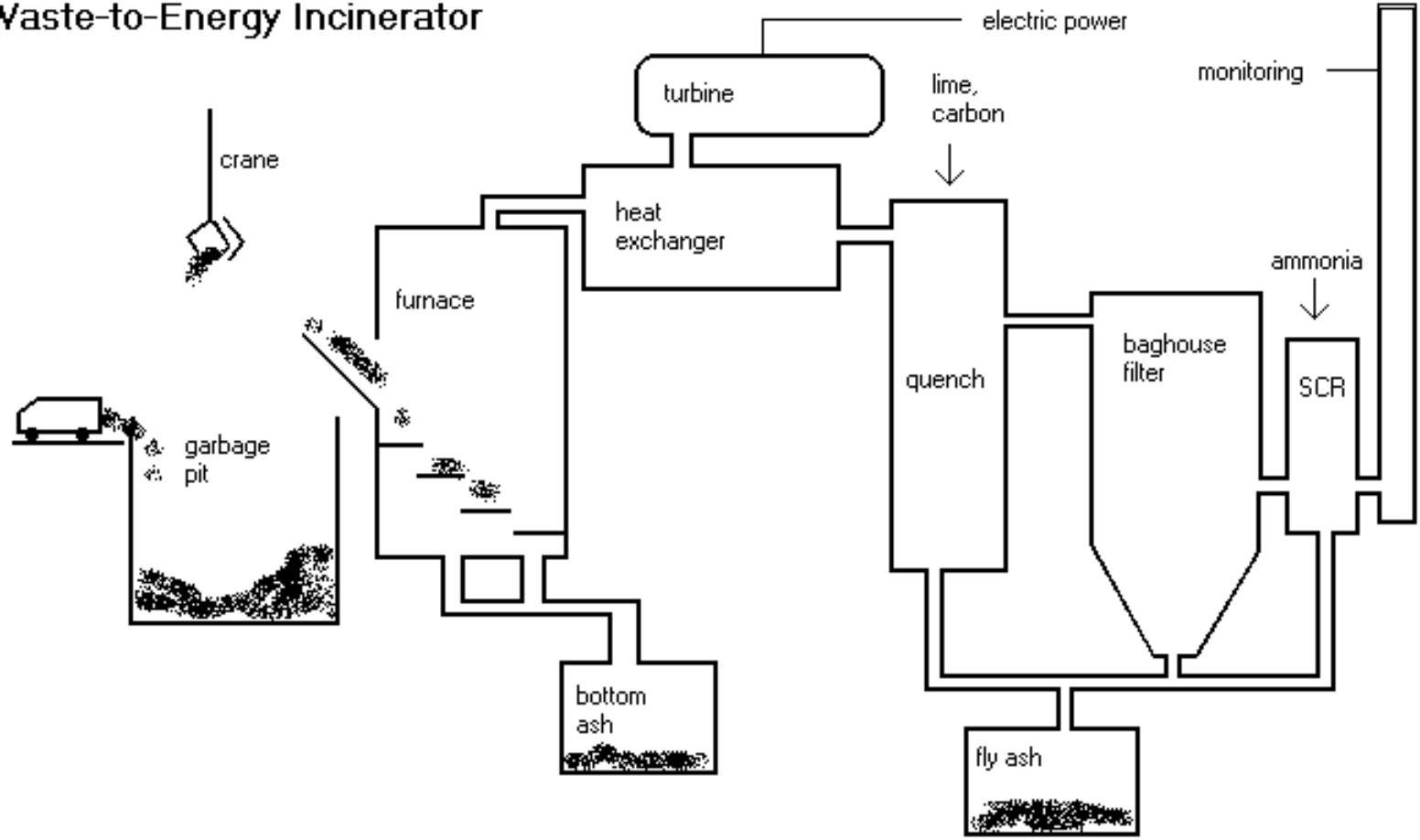


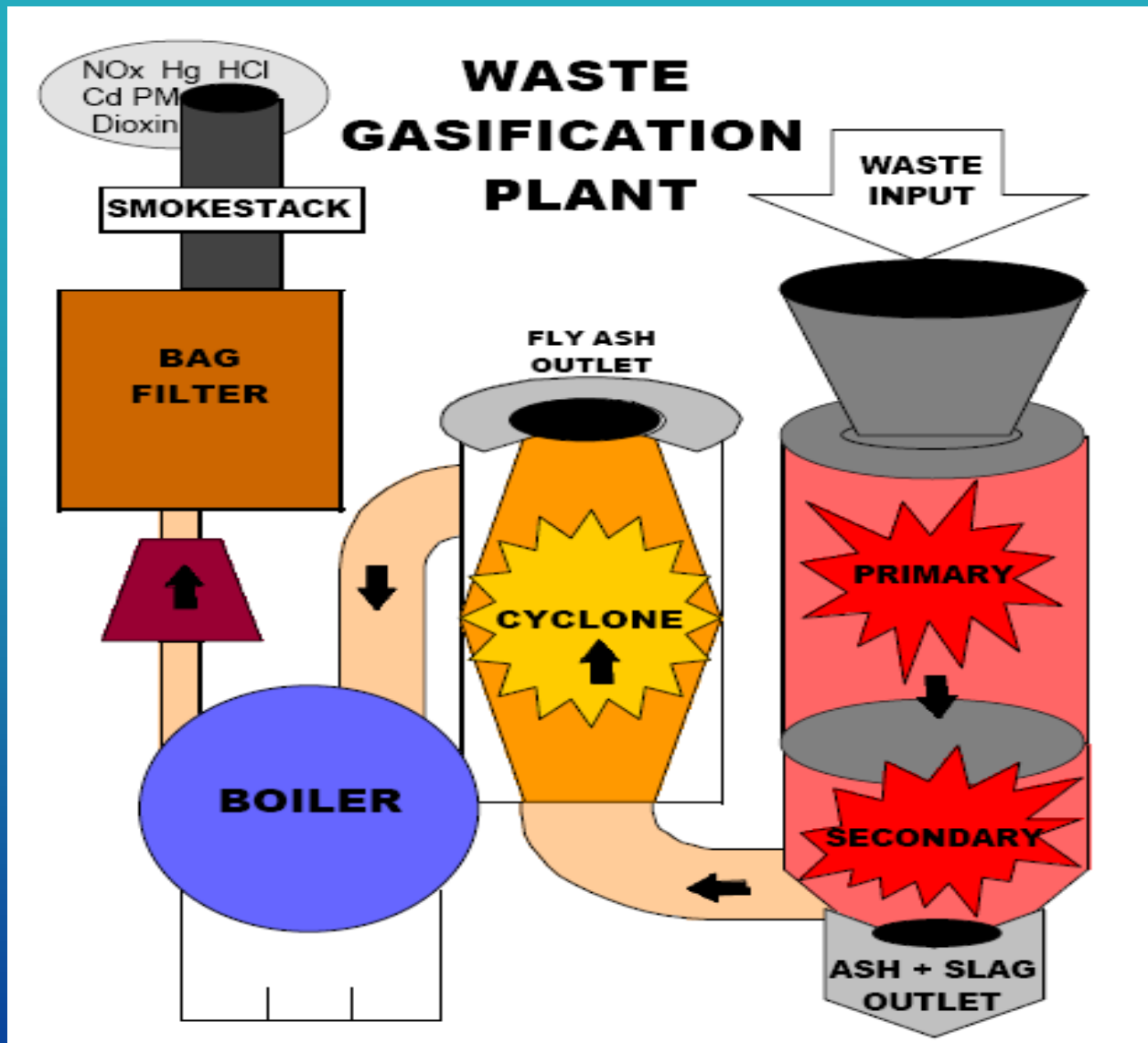
**Global Alliance  
for Incinerator  
Alternatives**

**G l o b a l  
A n t i - I n c i n e r a t o r  
A l l i a n c e**

# INCINERATION

Waste-to-Energy Incinerator





From [bredl.org](http://bredl.org)

(Blue Ridge Environmental Defense League)

# INCINERATION



## Key Issues:

- Toxic Emissions
- Toxic Ash Disposal
- Environmental Justice
- High Cost
- Waste of Energy
- Sustainability – the big picture

$\text{CO}_2 + \text{H}_2\text{O}$

ACID GASES: HCl,  $\text{NO}_x$ ,  $\text{SO}_x$

TOXIC METALS: Pb, Cd, Hg, Cr

New Compounds: VOCs, Dioxins,  
Furans, PAHs,  
Benzene

# How did we get here?

Resources



Production



Consumption

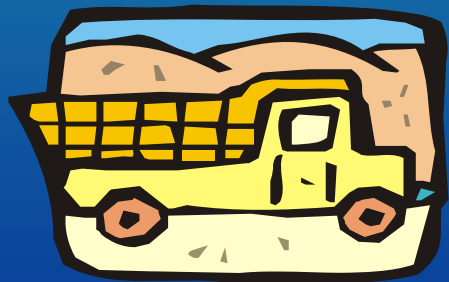


WASTE



Waste Disposal Industry

Where can we put it?  
Is it safe?



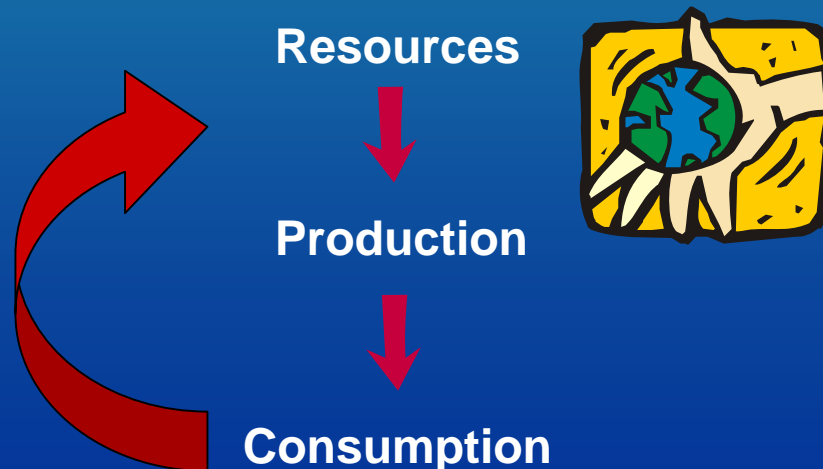
If We Ask The Wrong Questions,  
We Get The Wrong Answers.

# Zero Waste

Eliminate waste to landfills and incinerators

Reduce and eliminate toxicity in products

Make closed loop system possible



# Cities with Zero Waste Resolutions

Canberra, Australia

Buenos Aires, Argentina

San Francisco, CA

Oakland, CA

Many cities and towns in New Zealand

Citizen's Zero Waste Plan: New York City

# Leading waste diversion rates

Zabbaleen areas of Cairo, Egypt	80-90%
Opotiki District, New Zealand	85%
Gazzo (Padua), Italy	81%
Trenton, Canada	75%
<i>The Netherlands</i>	72%
Boothbay, Maine, U.S.A.	66%
Curitiba, Brazil	65%
San Francisco	63%
Galway, Ireland	63%
Canberra, Australia	61%
<i>Switzerland</i>	50%
Andheri, Mumbai, India	50%



# San Francisco, CA

- 75% goal by 2010, zero waste ultimate goal
- Food waste collected weekly
- Extended Producer Responsibility resolution
- New ban on kids' products with bisphenol A and some phthalates

# Recycling and composting

## Opotiki, New Zealand

- 9600 residents
- Zero waste goal during landfill crisis
- 85% diversion in 3 years
- Recyclables collected, stockpiled, sold



# Recycling and composting

## Nova Scotia, Canada

- Compostable waste **banned** from landfills, 18 compost facilities
  - Baddeck: 4000 population, 1 ton/day compostables, windrows
- Also banned from disposal are: used tires, recyclable containers, toxic materials (batteries, paint, car fluids)
- Thousands of new recycling jobs

# Extended Producer Responsibility

## British Columbia, Canada

- Paint, solvents, fuels and pesticides must be taken back by producers, collected at depots and retailers
- Reforming tire and battery collection programs to make producers responsible

# GrassRoots Recycling Network Zero Waste Communities Program

[www.grrn.org](http://www.grrn.org)

**GAIA**



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