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LA

Los Angeles

COUNCILMAN  
GREIG SMITH



A Resource  
Management  
Blueprint for the  
City of Los Angeles

2005 - 2025

# ZERO WASTE

## The RENEW LA Goal

To reduce, reuse, recycle, or convert the resources (municipal solid waste) now going to landfills so as to achieve an overall recovery level of 90% or more by 2025.

**The purpose of the RENEW LA plan** is to create a new paradigm of Zero Waste and concrete strategy to get there.



# KeyQualities

- ✓ Sustainability
- ✓ Resource conservation
- ✓ Maximum material recovery
- ✓ Environmental protection
- ✓ Renewable energy
- ✓ Economic benefit
- ✓ Environmental justice

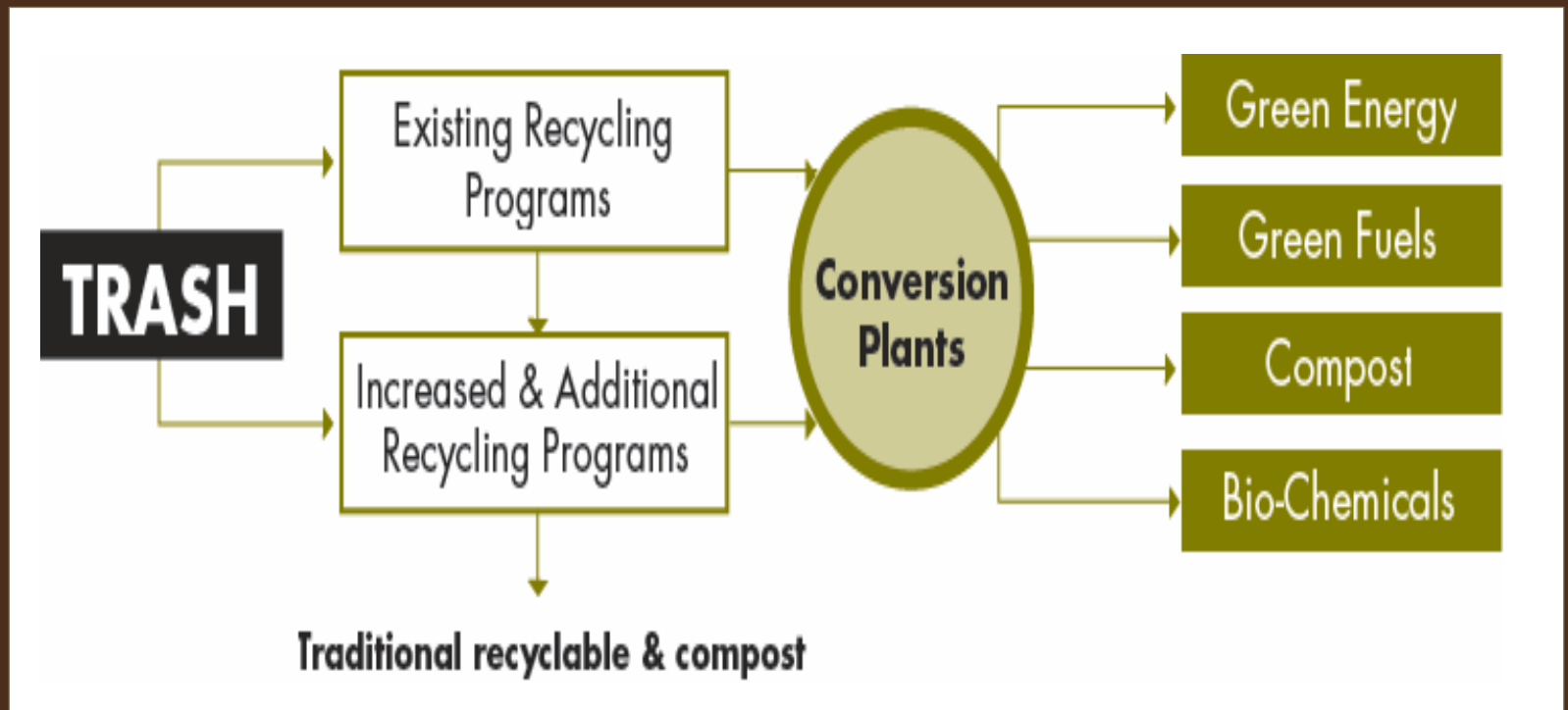
# THE CHALLENGE

## WHERE WE ARE NOW



# RENEW LA STRATEGY

2005 - 2025



# CONVERSION TECHNOLOGIES



**Organic Materials**

## Gasification & Pyrolysis

Over 80 plants in Japan. Big renewable energy producer. Minimal residual.

**STEAM, ELECTRICITY, FUELS**

## Anaerobic Digestion

Over 80 plants in Europe. All biological process. Major product is compost.

**COMPOST, HEAT, ELECTRICITY, FUELS**

## MSW Composting

Several full scale plants in North America. Simple operation.

**COMPOST**

## Autoclave

First 2 plants in construction in U.S. Flexibility of products. Potential front-end for other CTs.

**PAPER PULP, RECYCLABLES, GREEN ENERGY, COMPOST**

## Fermentation

Huge demand for product - ethanol. First plants on-line.

**ETHANOL, CHEMICALS, GREEN ENERGY**

# THE WAVE OF THE FUTURE

## THE RENEW LA PLAN



Anaerobic Digestion Plants (Belgium)





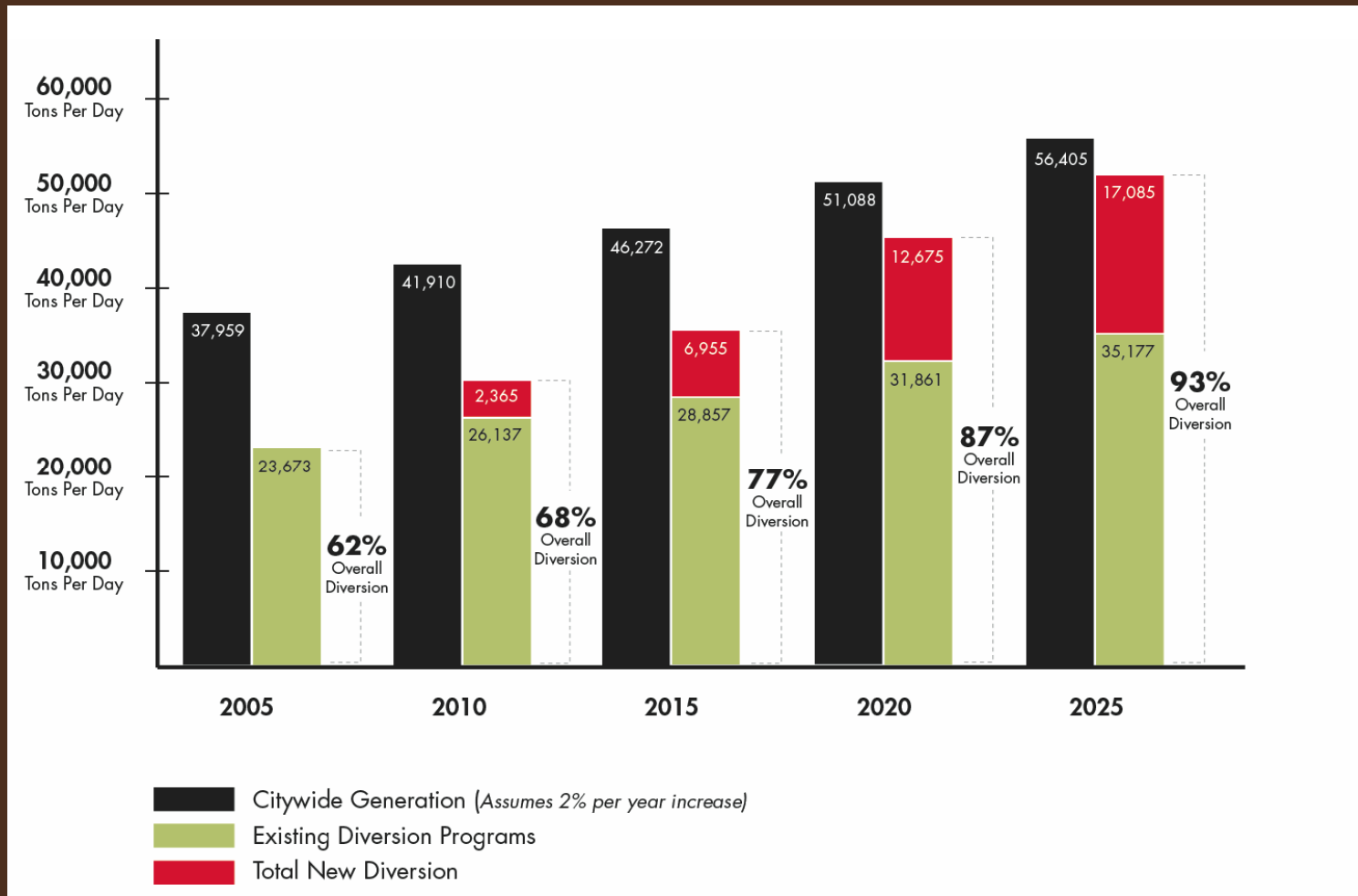
**Gasification Plants (Germany)**





# RENEW LA PLAN

## ZERO WASTE TARGET 2025



# Build & Improve

## Existing Programs



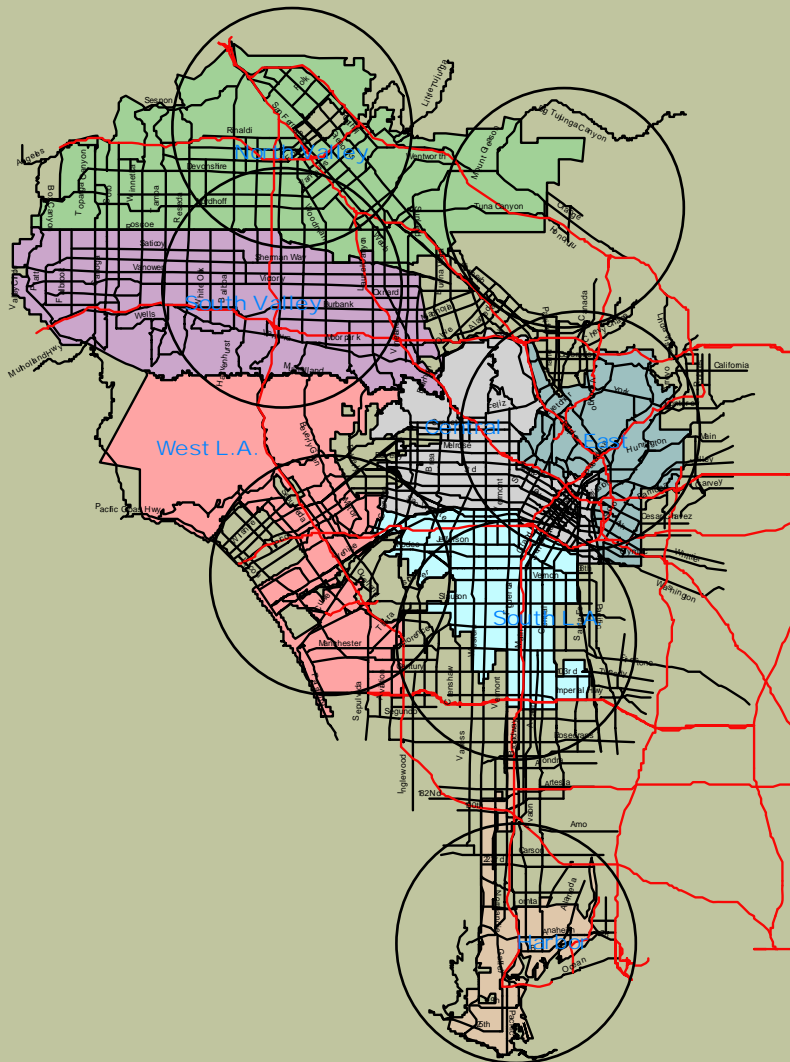
- **Curbside Recycling**
- **C&D Processing**
- **Mixed Material “MRFinng”**
- **Food Waste Recycling**
- **Green Waste Composting**



- **Multi-family recycling** –100,000 units online by December, 2007
- **Business recycling** – Task Force on Commercial Recycling & Green Business Incentives Formed
- **Industry recycling** – i.e.: Green Building
- **Styrofoam Recycling** –Launched July 1, 2007
- **Universal Waste** –S.A.F.E. Centers & Take it Back Partnership  
–Exploring a curbside U-waste collection (Garcetti-Smith motion)
- **E-Waste** –S.A.F.E. Centers and Curbside Collection

**RECOVER THE REST THROUGH  
CONVERSION TECHNOLOGY**

# CT PLANT DEVELOPMENT



➤ - **Regional Coverage**

➤ - **Environmental Justice**

- **Seven “wastesheds”**
- **Each hosts a local facility**
- **Possibility of partnering with neighboring jurisdictions**

YEAR	TOTAL NUMBER OF PLANTS	TOTAL TPD
2005 - 2010	<b>2</b>	<b>1,000</b>
2010 - 2015	<b>4</b>	<b>4,000</b>
2015 - 2020	<b>6</b>	<b>10,000</b>
2020 - 2025	<b>7</b>	<b>14,500</b>

# ENVIRONMENTAL PROTECTION



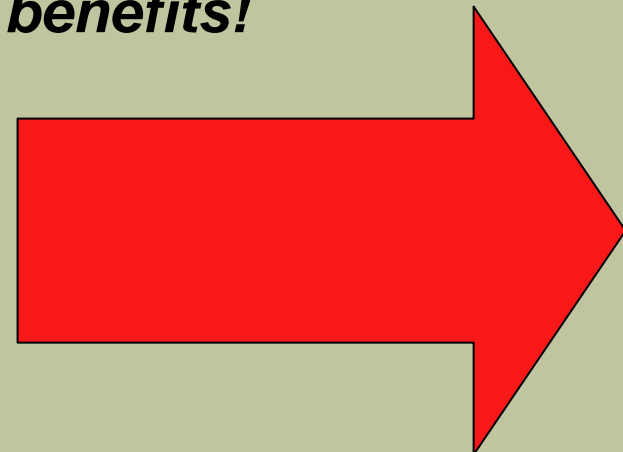
- ✓ **Cleaner Air**
- ✓ **Less Truck Traffic**
- ✓ **Best and Highest Use of Resources**
- ✓ **Green, Renewable Energy**
- ✓ **Reduce Dependency on Foreign Oil & Fossil Fuel**

# EconomicBenefit

*“Doing well by doing good”*

Not only does the RENEW LA plan lead the way to sustainability, environmental protection, and resource recovery and conservation...

***It does it while providing many economic benefits!***



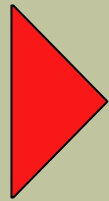
# EconomicBenefit

*Continued...*

- Creates new industry to handle - process - recycle our resources

Current Recycling in Los Angeles:

600 Companies  
8,000 Jobs  
\$200 Million Payroll  
\$ 1.8 Billion Revenue



Just the beginning!

- “Green collar” jobs created

7:1

Engineering & Construction multiplier

10:1

Operational multiplier over landfill jobs



# Economic Benefit

## *Continued...*

### **- Conversion Technologies are less expensive than rail haul**

Especially when all the savings in traffic, air quality, use of foreign oil, and resource depletion are taken into account.

### **- Diversion vs. Disposal**

- Total sales and value added impacts more than doubled
- Total income impacts nearly doubled
- Jobs nearly doubled





# **KEY** *Recommendations For Action by City of Los Angeles*



- ✓ **RENEW LA Plan** –Adopted February '06
- ✓ **Add food waste to green can recycling** –Pilot in development
- ✓ **Modify zoning code** –Ordinance coming to Planning Commission in August '07
- ✓ **Site and develop 1st and 2nd CT plants** –RFP due back August '07
- ✓ **Implement commercial recycling and establish city tax breaks to encourage resource recovery** –Task Force Created, initial recommendations due in September '07
- ✓ **Implement multi-family recycling** –Rollout in progress -100,000 units by December '07
- ✓ **Establish DWP green energy producer bonus** –Working with DWP
- ✓ **Revise City Procurement Policy** –EPP policy passed & funded in 07-08 Budget
- ✓ **Adopt Zero Waste Policy** –Scheduled for next Ad-Hoc RENEW LA committee meeting

# CITY OF L.A. COMPLEMENTARY POLICIES, LEGISLATION AND INITIATIVES

- ✓ **Green LA - GHG emissions reduction to 35% below 1990 levels by 2030**
  - Accelerated RPS Goals - 20% by 2010 and 35% by 2020
  - 100% of BOS fleet powered by alternative fuels by 2010
  - Recycle 70% of waste by 2015 (former goal 2020)
- ✓ **Mayoral Directive for first Alternative Technology Facility by 2010**
- ✓ **S.W.I.R.P. - Six-year stakeholder process**
- ✓ **Blue Bins in 236 LAUSD Schools**
- ✓ **Recycle For Dollars - Education and incentive program**
- ✓ **Expansion of Restaurant Foodwaste collection - Residential Foodwaste Pilot in development**
- ✓ **Rebates against the City's Private Hauler Fees - For loads taken to a certified processor for recycling**
- ✓ **Minimum LEED Silver Standard for Municipal Buildings**
- ✓ **C & D Recycling Ordinance - Stepping it up to a mandatory requirement**
- ✓ **Curbside Collection of Universal Waste - Legislation introduced**
- ✓ **Time-Certain Reduction in Tonnage to the Sunshine Canyon Landfill - 0 TPD by 2011**
- ✓ **Newly Negotiated Recycling Contracts - Require contractors to take all plastics 1-7, including Polystyrene while providing a local market for the material**
- ✓ **Commercial Waste Action Plan - Creating Green Business certification**



**“Some people see things as they are and say why?  
I dream of things that never were and say why not?”**

*- Robert Kennedy*

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