BGreen 2020

A Sustainability Plan for Bridgeport, Connecticut

Highlights and Early Action Items  Presentation to DEP
April 27, 2010
Where We’ve Been

• 2009: From Vision to Plan:
  Establishing a framework
  – Mayor’s Executive Order
  – Public/private partnership
  – CAC and five technical committees
  – Comprehensive sustainability plan

• Developing stakeholder relationships

• Identifying project and program opportunities
BGreen 2020
A Sustainability Plan for Bridgeport, Connecticut

Energy
Recycling
Business Jobs
Green Purchasing
Land Use Transportation
Green Spaces
Water Resources

Outreach and Education
Green Energy and Buildings

• Retrofit municipal buildings and schools
  – First Project --- Burroughs Public Library
• Consolidate facilities where appropriate
Energy Improvement District

- Green Energy Park
- Biomass study to convert sludge to electricity
- Municipal building retrofit financing
- Solar leasing initiatives
- Community weatherization programs
- Comprehensive Energy Plan
Green Business, Jobs and Purchasing

- Green Collar Institute
  - Green Business Incubator
  - Green Collar Jobs Training
  - Green Business Resource Center
  - Environmentally preferred purchasing
  - Regional Green Collar Corridor
Zoning and GIS for Green Development

- New zoning regulations
- Green building incentives
- GIS-supported land planning
  - Brownfield redevelopment
  - Pocket Parks
  - Flood management
Transit First and Complete Streets

- Transit incentive programs
- Sidewalk enhancement near transit
- Bikeways
  - E/W and N/S arteries
  - Neighborhood connectors
  - Safe Routes to School
- Complete streets
  - Multimodal neighborhood resources and amenities
Open Space Planning

- Waterfront access
- Pocket parks
- Natural resource protection
- Community gardens & urban farming
- Blue/Green infrastructure
Water Resources

• Stewardship
  – Storm drain marking
  – Rain barrels and rain gardens

• Green infrastructure
  – Permeable paving
  – Bioswales
  – Field scale demonstrations
  – Long Term Control Planning integration
Recycling

- Recycle Bank pilot in residential sector
- Single Stream
- Commercial demonstration projects
- Recycling in all schools
- New composting center with re-entry community
- Construction and debris materials recycling
### MSW and Recycling/Composting

<table>
<thead>
<tr>
<th></th>
<th>FY 05-06</th>
<th>FY 06-07</th>
<th>FY 07-08</th>
<th>FY 08-09</th>
<th>FY 09-10</th>
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</thead>
<tbody>
<tr>
<td><strong>Total MSW</strong></td>
<td>44,662</td>
<td>43,137</td>
<td>41,310</td>
<td>40,450</td>
<td>36,584</td>
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<tr>
<td><strong>Leaves and Yard Waste</strong></td>
<td>1,581</td>
<td>1,500</td>
<td>2,626</td>
<td>3,596</td>
<td>5,250</td>
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<tr>
<td><strong>Total Residential Recycling</strong></td>
<td>2,438</td>
<td>2,111</td>
<td>2,291</td>
<td>2,362</td>
<td>2,775</td>
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<td><strong>Tons Recycled % (MSW + Rec)</strong></td>
<td>4.70</td>
<td>4.30</td>
<td>4.90</td>
<td>5.10</td>
<td>5.40</td>
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**Graphs:**
- Total MSW
- Leaves and Yard Waste
- Total Residential Recycling
- Tons Recycled % (MSW + Rec)
Composting

1. Working with EPA and DEP on a composting pilot that involves including schools, businesses and city facilities.

2. As you can see from the previous slide we are seeing a substantial increase in leaves and yard waste as well.

3. The idea ultimately is to include the Re-Entry Community as a potential source of green jobs.

4. Additionally we are studying the potential for a biomass facility that could use this material to increase the temperature in an anaerobic digestion process to increase the effectiveness for the production of clean energy.

5. Revenue from this process could be used to fund additional programs,
2010 Early Actions

• Recycling and Waste Management
  – Commercial recycling demonstration
  – Composting facility design
  – School based recycling
  – Sludge to methane system design (for electricity) or to a biomass (for gasification)
2010 Early Actions

- **Alternative Energy**
  - Downtown Roof Tops Solar Leasing - 183 acres, 24 MW
  - Green Energy Park- 5-8 MW renewable energy

- **Conservation**
  - Energy Performance Contracting
    - City: Reduce 95M KBTU by 10% in 5 yrs
    - BOE: Reduce 251M K BTU by 10% in 5 yrs

- **Consolidation**
  - Reduce City footprint
2010 Early Actions

- **Green Business and Jobs**
  - Formation of Green Collar Institute
  - Expanded green collar jobs training
  - Green business incubator planning
  - Creation of Green Business Resource Center – to green existing businesses
2010 Early Actions

- Green Infrastructure
  - Greenscaper training – rain gardens
  - Urban forest canopy – public/private initiative
  - Field scale demonstration
  - Green infrastructure integration into Long Term Control Planning
2010 Early Actions

• **Green Spaces**
  – Green space development planning
  – Community gardens and urban farming initiatives

• **Transportation**
  – Complete streets demonstration project

• **Education and Outreach**
  – Mayor’s Conservation Corps
Community Outreach and Engagement

- Institutionalize Mayor’s Conservation Corps
- Local Capacity Building
  - BGreen Ambassadors
    - EJ Community
    - Neighborhood organizations
    - Community leaders
- Sustainability curriculum