City of San Pablo

Greenhouse Gas Inventory
Baseline Year – 2005
Interim Year - 2007
What is a Greenhouse Gas Inventory?

Accounts for greenhouse gases emitted within the city (base year 2005) by:
  • City operations/facilities (Municipality)
  • Entire community

Used as a basis for:
  • Forecasting future emissions
  • Comparing forecasts to reduction program results
ICLEI’s Milestone Process

- Conduct a Greenhouse Gas Emissions Analysis
- Establish a Reduction Target
- Develop a Climate Action Plan
- Implement the Climate Action Plan
- Monitor Progress and Report Results
- Repeat Periodically
City of San Pablo
2005 Government Operations GHG Emissions
1,926 Metric Tonnes CO2e
City of San Pablo
2005 Government Operations GHG Emissions Equiv CO2 (%)
City of San Pablo
2005 Community GHG Emissions
171,128 Metric Tonnes CO2e

<table>
<thead>
<tr>
<th>Category</th>
<th>Emissions (tonnes)</th>
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<tbody>
<tr>
<td>Residential</td>
<td>27,806</td>
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<tr>
<td>Commercial</td>
<td>16,279</td>
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<tr>
<td>Industrial</td>
<td>3,686</td>
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<tr>
<td>Transportation</td>
<td>104,623</td>
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<td>Waste</td>
<td>18,734</td>
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City of San Pablo
2005 Community GHG Emissions
Equiv CO2 (%)
City of San Pablo - Government GHG Emissions Equivalent CO2 (tonnes) Comparison – 2005 base year to 2007 interim period

- Buildings and Facilities
- Employee Commute
- Refrigerants
- Streetlights/Traffic Signals
- Vehicle Fleet
- Waste

2005: 1,926 MT CO2e
2007: 2,377 MT CO2e
City of San Pablo - Community GHG Emissions
Equivalent CO2 (tonnes)
Comparison – 2005 base year to 2007 interim period

<table>
<thead>
<tr>
<th>Year</th>
<th>Residential Equivalent CO2 (tonnes)</th>
<th>Commercial Equivalent CO2 (tonnes)</th>
<th>Industrial Equivalent CO2 (tonnes)</th>
<th>Waste Equivalent CO2 (tonnes)</th>
<th>Transportation Equivalent CO2 (tonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005</td>
<td>171,128 MT CO2e</td>
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<tr>
<td>2007</td>
<td>176,788 MT CO2e</td>
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CARB recommends establishing a greenhouse gas emission reduction target of 15% below the 2005 baseline by the year 2020.

We can strive to reduce energy use in City operations and the community as a whole.
City of San Pablo - Community
GHG Reduction of 15% from 2005 to 2020
(Assuming Business as Usual)

Reduction Target of 15% by 2020
Save $$, save Energy, Breath Easier
Federal Stimulus funds - $169,886

- City Hall lighting retrofit –
  - estimated annual energy savings of $21,118 and annual CO2 emission reduction of 151,763 lbs

- City owned streetlights retrofit to LED lights –
  - estimated annual energy savings of $2,341 and CO2 emission reduction of 94,935 lbs

- Parking lot light retrofit to LED lights -
  - estimated annual energy savings of $2,432 and CO2 emission reduction of 5,492 lbs
EPA Climate Showcase Communities Grant

- EPA Climate Showcase Communities grant - San Pablo, El Cerrito, Albany, Piedmont

- approx. 72K to San Pablo
  - HVAC upgrade to City Hall
  - Residential and commercial energy efficiency incentives
  - Some staff support
Community Programs
GHG Reduction Measures

- Contra Costa County and PG&E
  - Low income weatherization program

- Business Retrofit program – Smart Lights
  - 37 business lighting upgrades done, estimated savings of over 9,500 kWh/yr
Potential GHG Reduction Programs to implement:

- **CaliforniaFirst** -
  - property owners - property tax loan program - energy efficient retrofits.

- **Publicize ABAG Residential Energy Retrofit program** to San Pablo property owners - Contra Costa County awarded $1.1 million in rebates for property owners
  - energy retrofit programs
  - 20% energy savings = 20% rebate on cost
Reduce Waste going to the Landfill
Plant Trees –
Trees sequester
Greenhouse Gases
Consider Green Vehicle Purchases for City
Encourage Community to use CFL and LED light bulbs