

San Leandro Climate Action Plan Update



City Council
March 4, 2013

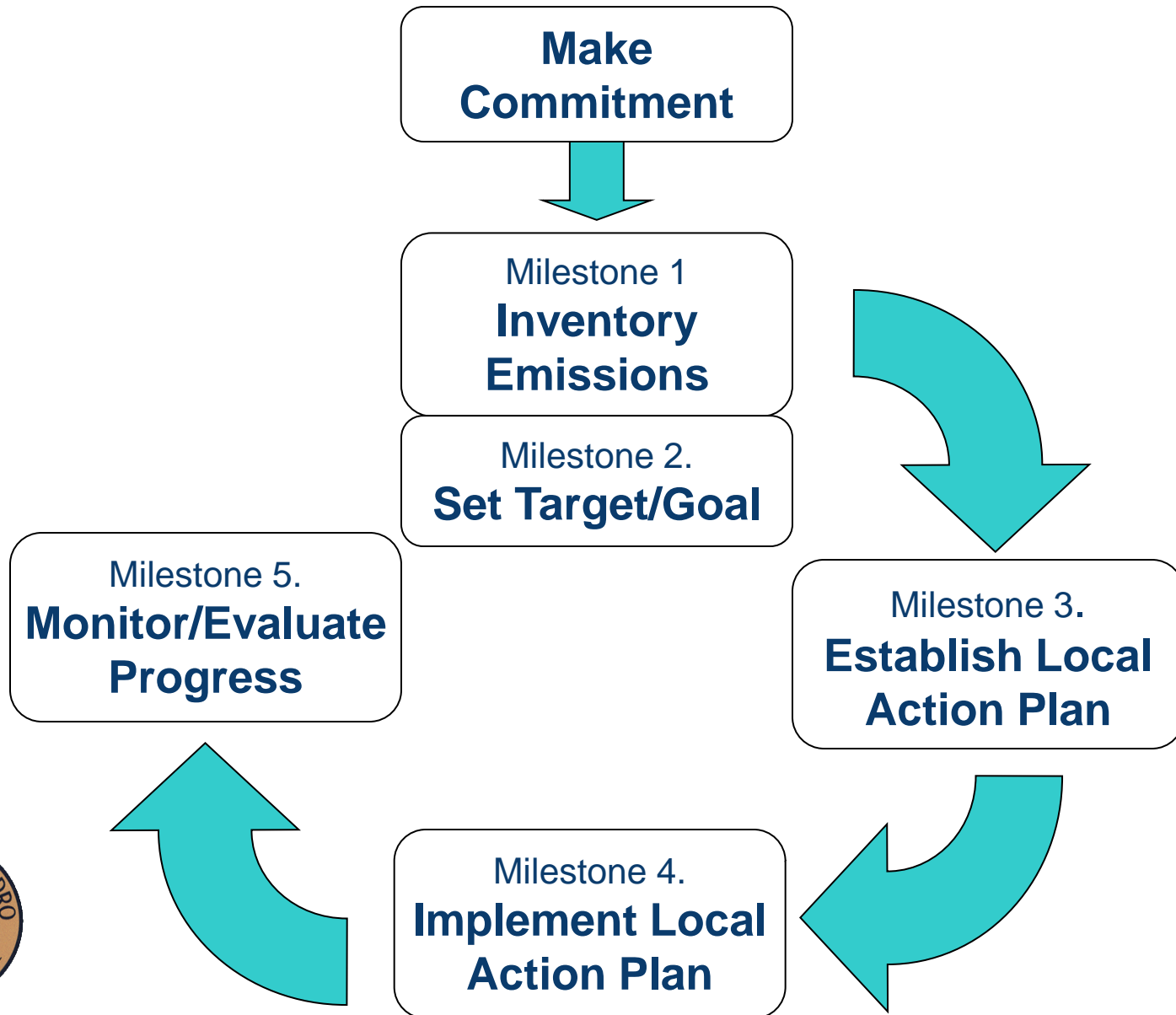
Climate Action Plan

- Roadmap for San Leandro to meet its reduction target
- Provides a list of Goals and Actions for future adoption
- Provides a robust quantitative analysis of emissions reduction measures through a Cost-Benefit Analysis
- Reduce, then Produce



5-Milestone Protocol

Local Governments for Sustainability (ICLEI)



Background

- February 2007: City Council adopted goal to reduce carbon emissions to 25% below 2005 levels by 2020.
- December 2009: City Council adopted the San Leandro Climate Action Plan
- January 2010: City Council directed Community Development to suspend coordinated implementation of the CAP due to budgeting and staffing constraints
- 2010 to present: various departmental efforts have carried out extensive energy upgrades with Federal Stimulus (EECBG) funds, as well as other Federal, State and City resources

Staff Collaboration

- Public Works
 - Facilities
 - Recycling
 - Streets
 - Open Space/Parks
- Community Development
 - Planning
 - Building
 - Housing
 - Office of Business Development
- Engineering/Transportation
- Recreation and Human Services
- Finance

Climate Action Plan in Context

- General Plan policies support energy efficiency, waste reduction, transit oriented development, and others
- Climate Action Plan included actions carried out with Efficiency and Conservation Block Grant (EECBG) funds
- Final Climate Action Plan will be transformed into a Sustainability Element for General Plan at a future update



Implementation: Vision from 2009

- Develop an Implementation Plan
- Annual Sustainability Work Plans to City Council
- Designate a Sustainability Coordinator
 - Implementation
 - Monitoring
 - Inventories
 - Public outreach
 - Grant procurement/management



Implementation: Building Energy Use

Residential Energy Efficiency – Goal 3.1

- ◆ Develop revolving loan fund for building energy audits: *45 households; \$26,735 in EECBG funds*
- ◆ Leverage existing grants and incentive programs (e.g. PG&E, State of CA): *\$29,840 in EECBG funds to StopWaste, leveraged into a \$6.7M project*
- ◆ Engage grass roots organizations such as CYES: *518 households served; 18 summer youth jobs; \$43,511 in EECBG funds*
- ◆ Offer home performance classes by building staff: *15 classes taught to approximately 300 residents; \$90,177 in EECBG funds*



Implementation: Building Energy Use

Commercial/Industrial Energy Efficiency – Goal 3.2

- ◆ Industrial Competitiveness Program: *7 companies received forgivable loans for a total of \$50,308; 6 companies attended Sustainability Circles with \$20K in City funding (Redevelopment and EECBG funds)*
- ◆ Support Green Businesses: *21 certified businesses in San Leandro supported by Public Works / Recycling with outreach and website exposure*



Implementation: Building Energy Use

Renewables – Goal 3.3

- ◆ PACE financing: *adopted CA First in 2010*
- ◆ Solar facilities on affordable housing projects: *Fargo Senior Housing, Estabrook Place, San Leandro Crossings (planned)*

Green Building – Goal 3.4

- ◆ Encourage compliance with LEED and Green Point Rated for new buildings: *BLD checklist, various projects*
- ◆ Encourage compliance with above standards for existing buildings



Implementation: Transportation and Land Use

Walkable Communities - Goal 4.1

- ◆ Implement Transit Oriented Development: *San Leandro Crossings project*
- ◆ Design standards for parking behind buildings: *South Area and Downtown Area Zoning Changes*
- ◆ Allow reduced parking where appropriate: *Ongoing*



Implementation: Transportation and Land Use

Public Transit - Goal 4.2

- ◆ Innovative transit improvement projects: *BRT; \$130K New Freedom funding for accessible pedestrian signals near transit*
- ◆ Increase transit ridership with cross-town connections: *new AC Transit loops*
- ◆ Increase bus safety and comfort: *bus shelters and benches*



Implementation: Transportation and Land Use

Alternative Transport (Biking / Walking) – Goal 4.3

- ◆ Improve bike routes for safety: *Fall 2013 expansion of Class II and Class III bike lanes east of SPRR*
- ◆ Update Bicycle and Pedestrian Master Plan: *2011*
- ◆ Expand Safe Routes to School program: *SRTS/SR2S grants - \$410K for 35 traffic safety classes and \$430K for traffic signal at 136th and Bancroft*

Expand Car- and Ride-Sharing – Goal 4.4

- ◆ Locate car share companies in San Leandro: *BMW in 2012*



Implementation: Transportation and Land Use

Encourage fuel efficient cars and traffic – Goal 4.5

- ◆ Reduce idling at traffic lights: *Traffic Operations Center and signal coordination system implemented with \$750K in funding from Federal, State and City funds (TLSP, CMAC, DFSI)*
- ◆ Plug in Stations: *McDonalds at 148th, SL Downtown Garage*
- ◆ Plug-in Stations at WPCP: *10 EV stations at plant underway*

Increase Urban Green Space – Goal 4.6

- ◆ Increase urban forest canopy: *200 trees added since 2009*
- ◆ Adopt an Urban Agriculture Ordinance: *Chicken and Bee Ordinance upcoming in 2013*



Implementation: Waste Reduction and Recycling

Increase residential recycling – Goal 5.1

- ◆ Increase participation in curbside recycling and composting
- ◆ Promote e-waste recycling: *7 tons recycled per year since 2009*

Increase commercial recycling – Goal 5.2

- ◆ Partner with StopWaste to help businesses recycle
- ◆ Mandatory recycling and composting of food scraps: *mandatory for large generators, July 2012*



Implementation: Waste Reduction and Recycling

Promote waste reduction and re-use – Goal 5.3

- ◆ Support locally produced compost: *compost to 1,500 households each year (\$235K in annual Measure D funding ends 2015)*
- ◆ Plastic bag ban: *January 2013 (grocery stores)*
- ◆ Styrofoam ban: *November 2012 (food establishments)*



Implementation: Government Operations

Increase Building Energy Efficiency– Goal 6.1

- ◆ Retrofit traffic signals and streetlights: *660 LED streetlights (14%) installed with EECBG and PGE rebates*
- ◆ New buildings and retrofits: *\$337K in EECBG funds for Energy Management Systems; SL Downtown Garage LEED Silver*
- ◆ High efficiency equipment at WPCP: *Blower purchased with 0% loan for 276K KWh, providing \$30K annual savings*

Increase Building Energy Efficiency– Goal 6.2

- ◆ Replace City fleet vehicles with car-share or hybrids

Increase waste reduction in City facilities – Goal 6.3



Milestone 5: Monitoring and Verification

- Track GHG emissions every 3-5 years
- StopWaste.Org provided technical support in 2012 with a six-month internship (2010 inventory)
- Final report challenging to interpret - changing measurement methods and data availability
- Overall emissions from community and municipal sources, not a tracking of actual CAP policies
- Data not always comparable between 2005 and 2010



Comparison of inventories 2005 / 2010*

2005 Municipal Emissions:	5,235 tons
2005 Community Emissions:	727,986 tons
2005 CO ₂ e emissions:	733,221 tons

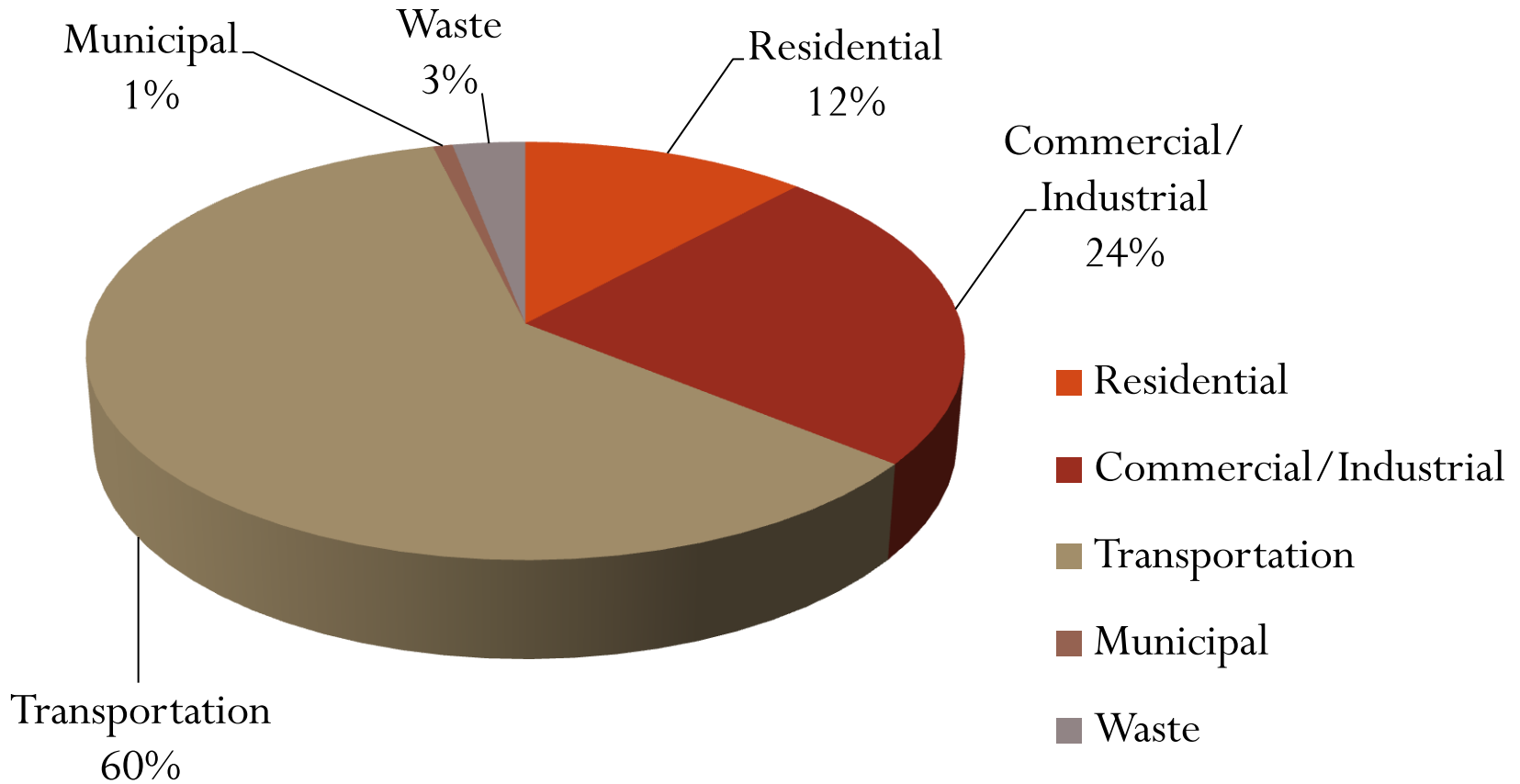
2010 Municipal Emissions:	4,833 tons
2010 Community Emissions:	668,318 tons
2010 CO ₂ e emissions:	673,151 tons

Percent change: - 8.2%

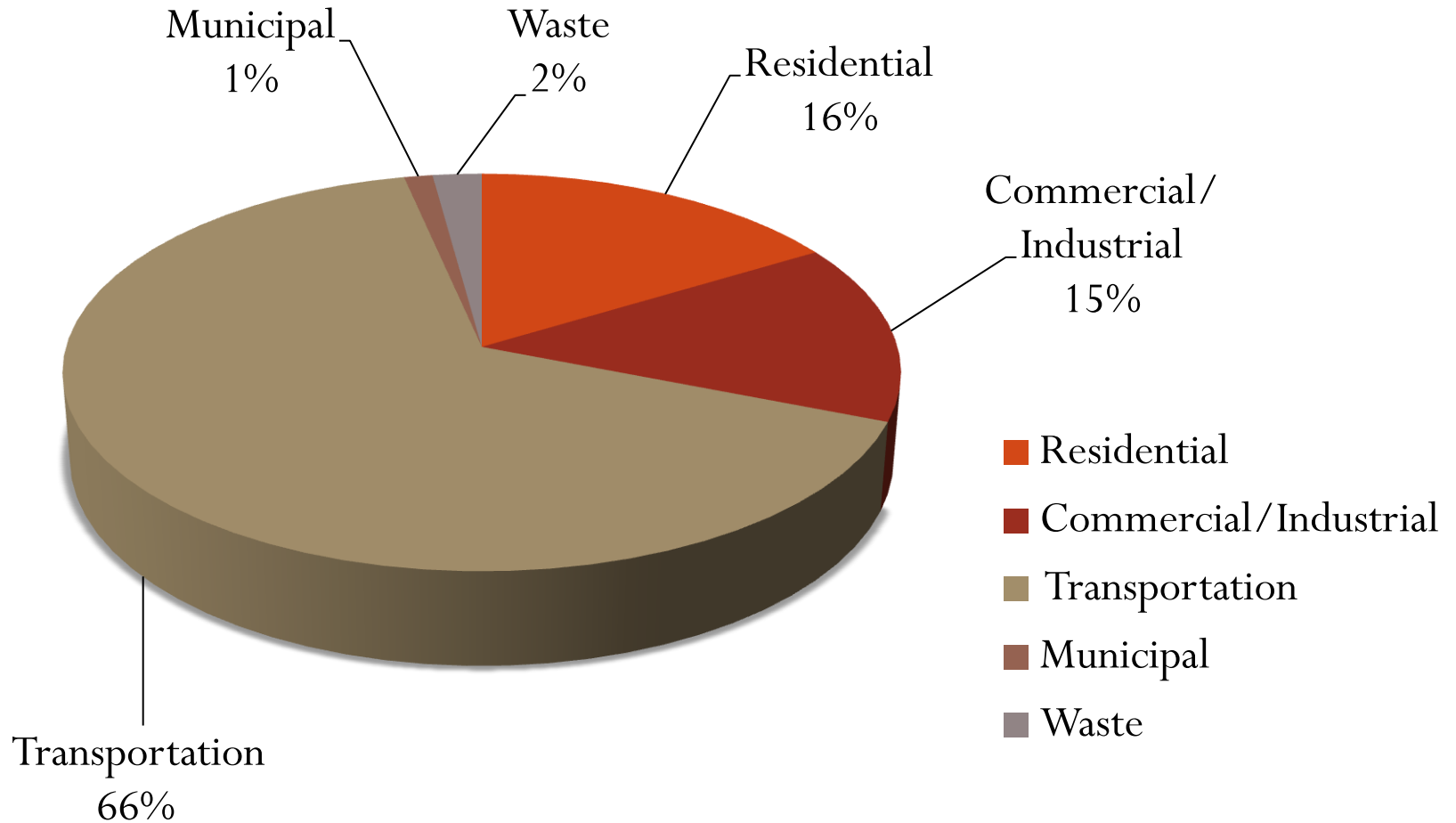
* *directly comparable items (metric tons)*



Results of GHG inventory 2005



Results of GHG inventory 2010



2010 GHG inventory - issues to consider

- PG&E emissions factors down – electrical grid produced 21% less carbon per kWh in 2010 than 2005
- Fuel consumption down:
 - Commercial/Industrial: -20.6% (recession factor)
 - Residential: - 1.2%
- Total on-road emissions down 1.7%:
 - Passenger vehicles: -5%
 - Heavy truck and bus: + 4%



sanleandro.org/climate