

City of Sacramento Climate Action Plan

**CA Energy Commission
Energy Aware Planning Guide Workshop
February 18, 2010**

Background

- Sustainability Master Plan (2007): 9 focus areas (incl. Climate Protection & Energy Independence)
- 2030 General Plan (2009): requirement to complete Climate Action Plan by July 2011
- Planning strategy: “lead by example”
 - **Phase 1: Internal operations (2009-2010)**
 - **Phase 2: Community-wide strategies, public involvement, and adaptation (2010-2011)**

Funding

- Energy Efficiency & Conservation Block Grant (EECBG): \$4.7 million
 - **Climate Action Plan: \$250,000**
 - Green Building Task Force: \$100,000
 - Regional AB 811/PACE program: \$740,000
 - Regional Energy Alliance (SMUD): \$900,000
 - Small Business EE Pilot: \$500,000
 - EE for City facilities: \$1.8 million
 - LED Streetlight Pilot: \$100,000

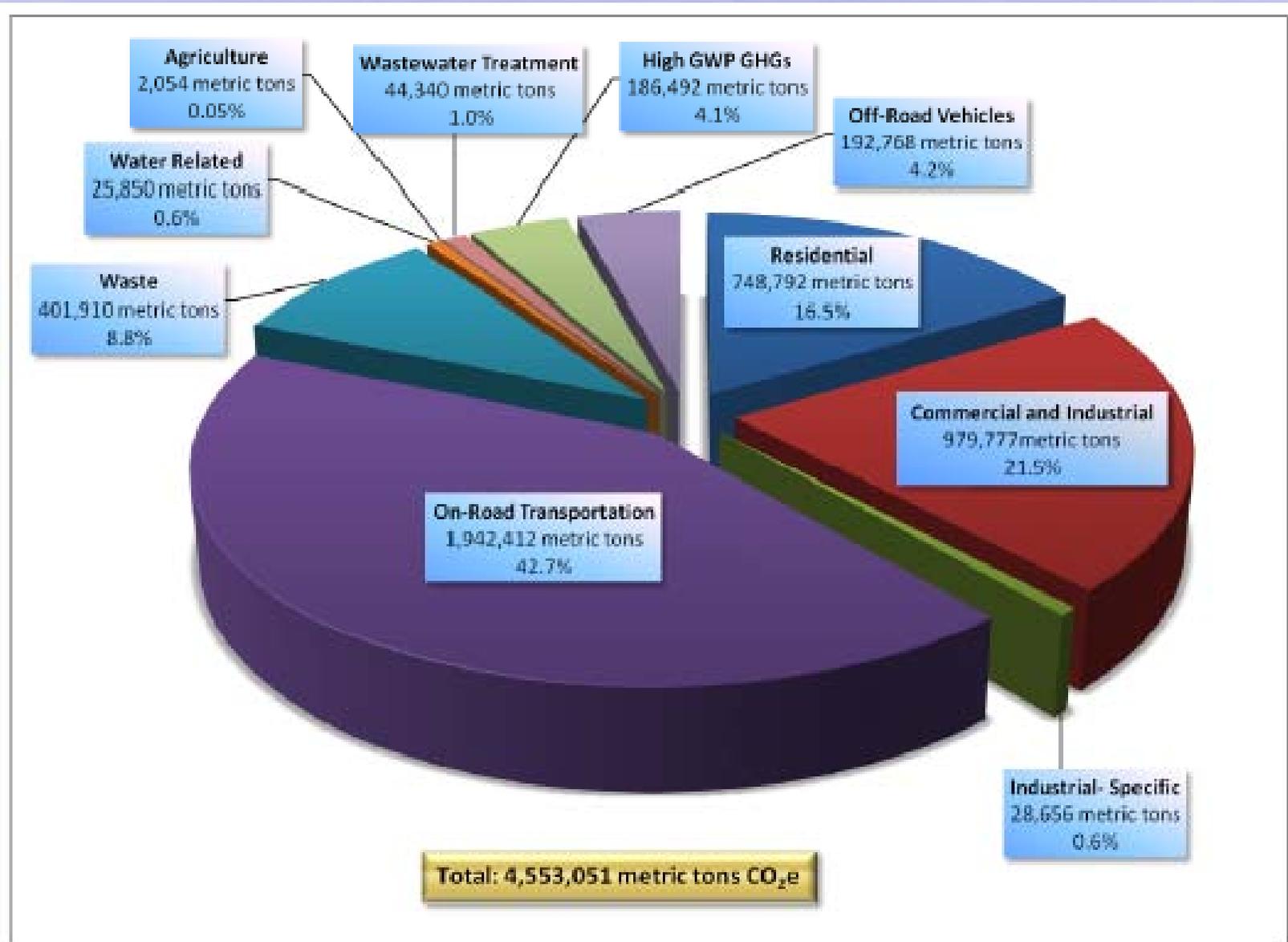
City CAP Process: Based on 5 Milestones (ICLEI)

- 1. Conduct GHG Emissions Inventory and Forecast**
- 2. Identify GHG reduction targets**
- 3. Create an Action Plan**
- 4. Monitor and Assess Progress**
- 5. Adjust and Update as Needed**

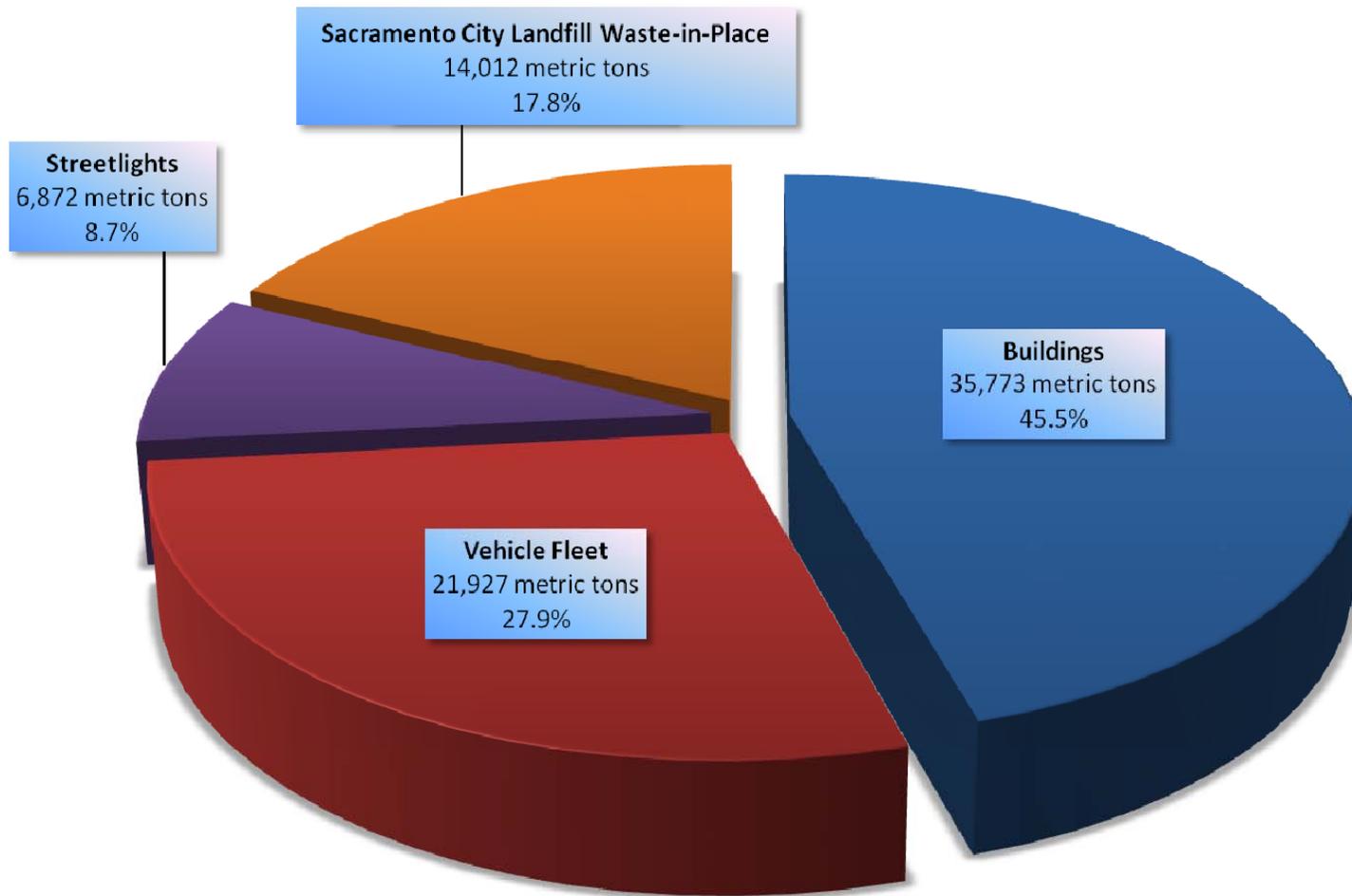
1. Countywide GHG Inventory

- 2005 baseline inventory, all jurisdictions (County + cities) in Sac County
- Local Government Protocol (ARB, ICLEI)
- Scope 1 and 2 emissions only
- Communitywide, and Internal Operations as a subset, for each jurisdiction
- Sacramento Area Green Partnership
- Participation from SMUD, PG&E, SRCSD, SMAQMD, SACOG

City of Sac: Community GHG



City of Sac: Internal Ops

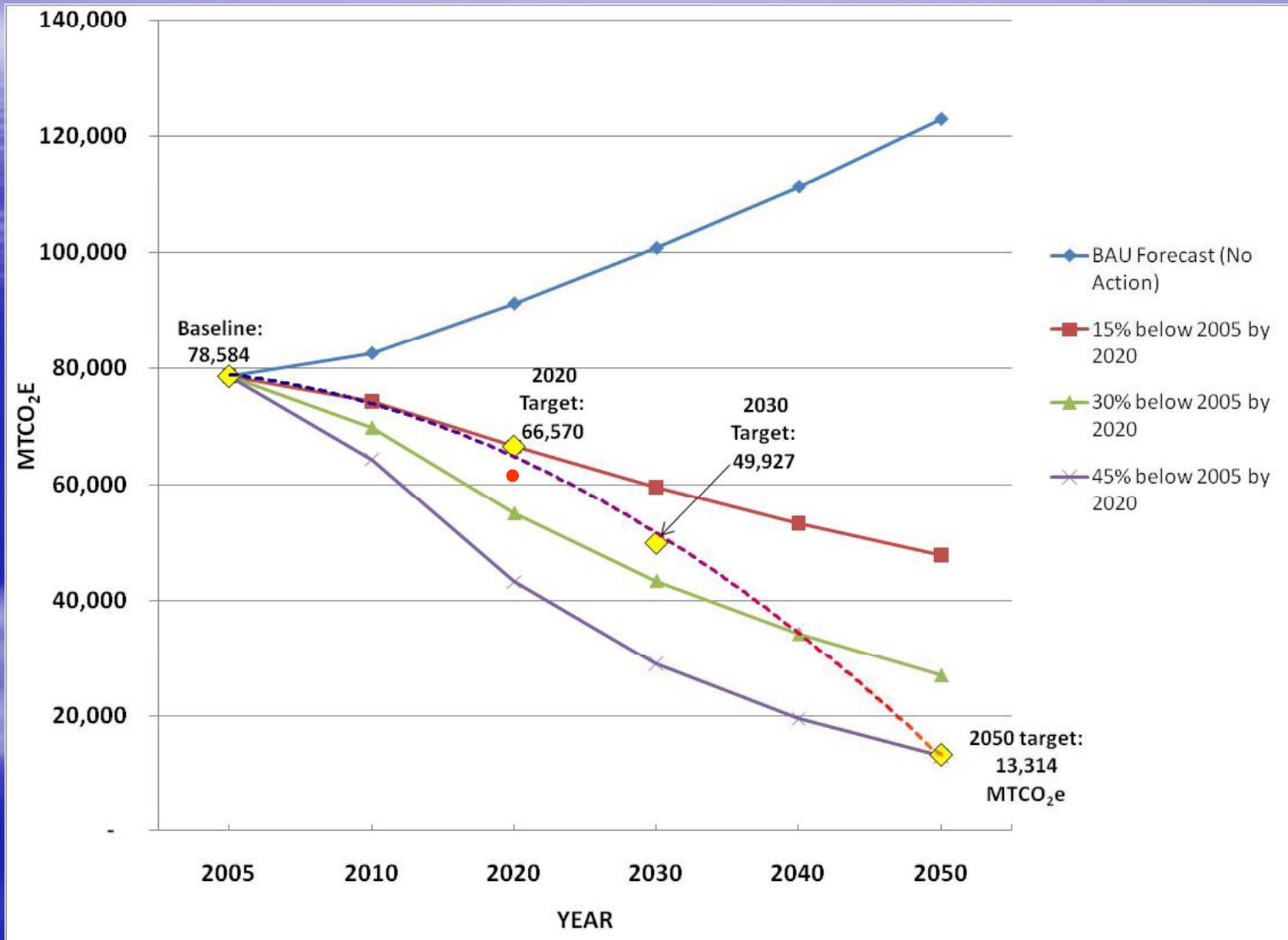


Total: 78,584 metric tons CO₂e

2. Setting Targets

- 1990 levels by 2020 (AB 32): what were our levels in 1990???
- Scoping Plan: **15% below 2005 levels by 2020 (min recommended for local gov'ts)**
- How much is enough (or too much?)
 - Sonoma County: 25% below 1990 by 2015
 - Berkeley: 33% below 2000 levels by 2020
 - Chicago: 25% below 1990 by 2020
 - Obama: 28% below 2008 levels by 2020

Forecast & Targets: City Ops



3. Action Strategies (City Ops)

- **22% below 2005 levels by 2020**
 - City action strategies: 13% reduction
 - SMUD Actions (renewable portfolio): 9% reduction
- **30 Action Strategies**: all municipal operations sectors, consistent with Sustainability Master Plan
 - Some Completed Projects (2005-2009)
 - Many Ongoing/Phased Programs (2005-2020)
 - Some New Programs/Projects (2010-2020)

How much will it cost?

- Low/No Cost – direct savings to City (“low hanging fruit”)
- Moderate Cost – some investment required, but reasonable payback
- Higher Cost – cost savings may be less than cost to implement (may be mandated, or other co-benefits)

Top 6 Strategies (City Ops)

- **Fleet Telemetrics (GPS):** \$800K/yr saved cost \$2.6 million
- **Streetlight LED Retrofits:** \$650K/yr saved, pilot cost \$100K, total cost \$20 million+
- **Building Energy Efficiency Retrofits:** \$500K/yr saved, cost \$4 million+
- **EnergyStar/Green IT:** \$350K/yr saved
- **Sustainable Ops Policy:** \$150K/yr saved
- **Solar PV & Thermal:** up to 4 megawatts PV

Phase 2: Key Issues

- Transportation/Land Use: SB 375 implementation, Blueprint v 2.0?
- Existing buildings: will AB 811/PACE be enough?
- New construction: green codes, zero net energy?
- Water: 20% less per capita by 2020?
- Waste: Zero Waste by 2040?
- Cross-cutting strategies: achieving multiple objectives (e.g. low-maint landscaping, waste-to-energy)
- Community Involvement: identify stakeholders, what are top ways to take action (and save \$\$)?

Lessons Learned in Sac

Successes:

- Sustainability Master Plan and 2030 General Plan
- Sac Area Green Partnership (collaboration)
- Many tools already available (ICLEI, CARB, CEC, CAPCOA, LGC, ISC, other CAP docs, etc)

Challenges:

- Getting organized, building consensus, finding “champions” (Green Team)
- Quantification of costs and benefits
- Connecting the Dots: achieving multiple sustainability objectives, not just cutting GHG

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http://www.sacgp.org/climate_action_plan.html

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