

California Cap and Trade Program and Metro

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Los Angeles County Metropolitan Transportation Authority

April 18, 2013



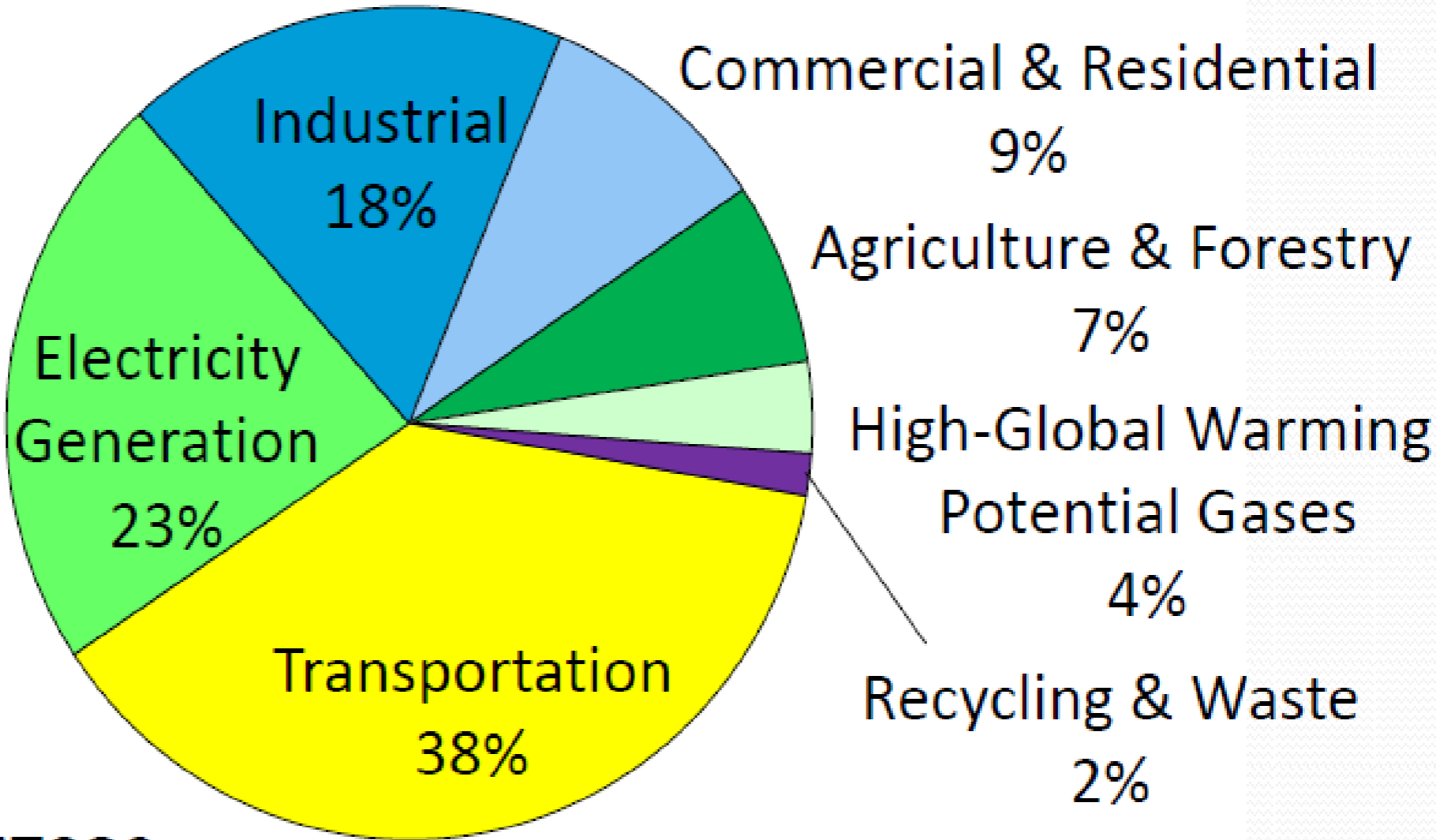
Outline

- > California Cap and Trade Drivers
- > Timeline
- > What Do These Mean to Metro?
- > Questions/Discussion



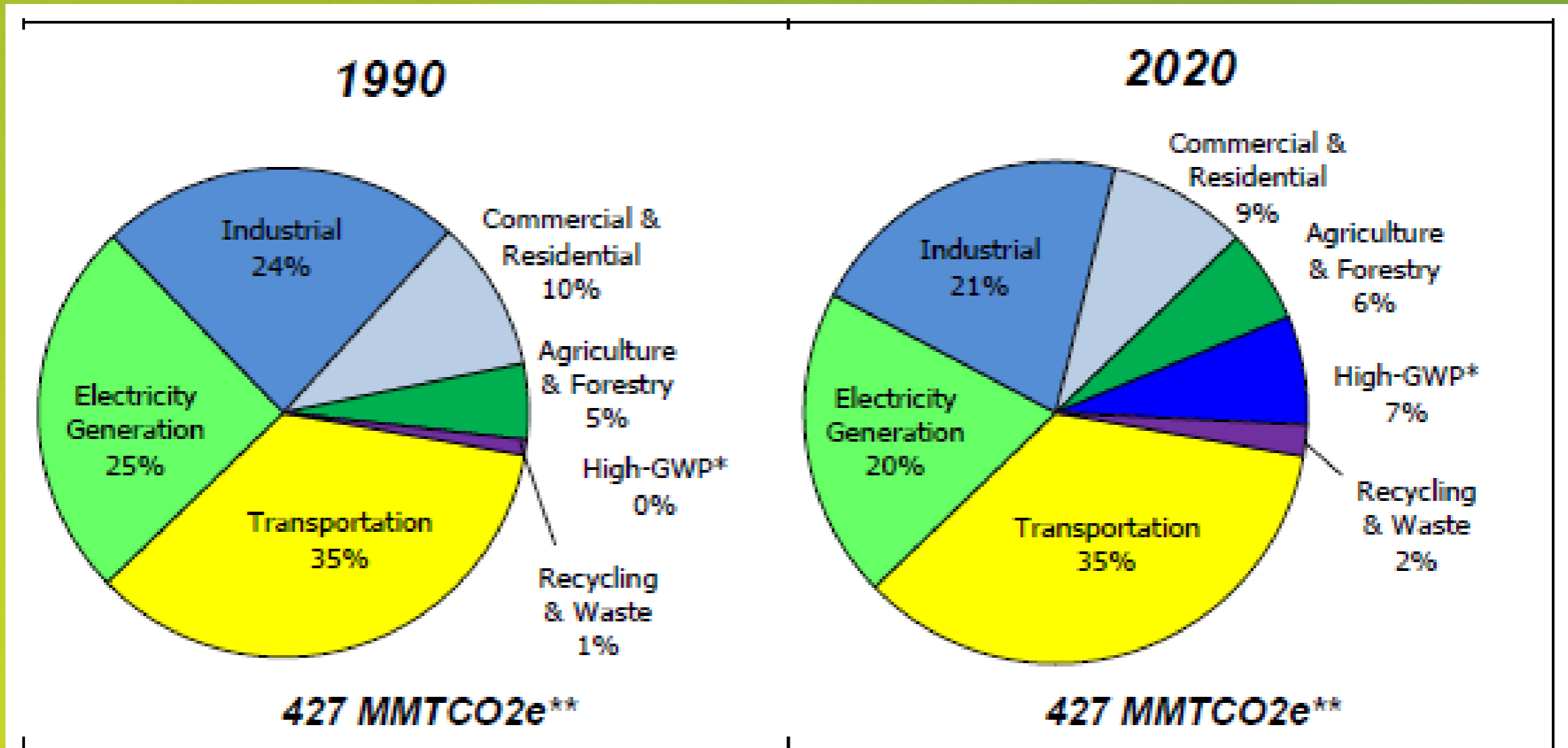
Greenhouse Gas Emissions Sources

Year 2009



457 MMTCO₂e

Statewide GHGs by Sector - 1990 Inventory and 2020 Forecast



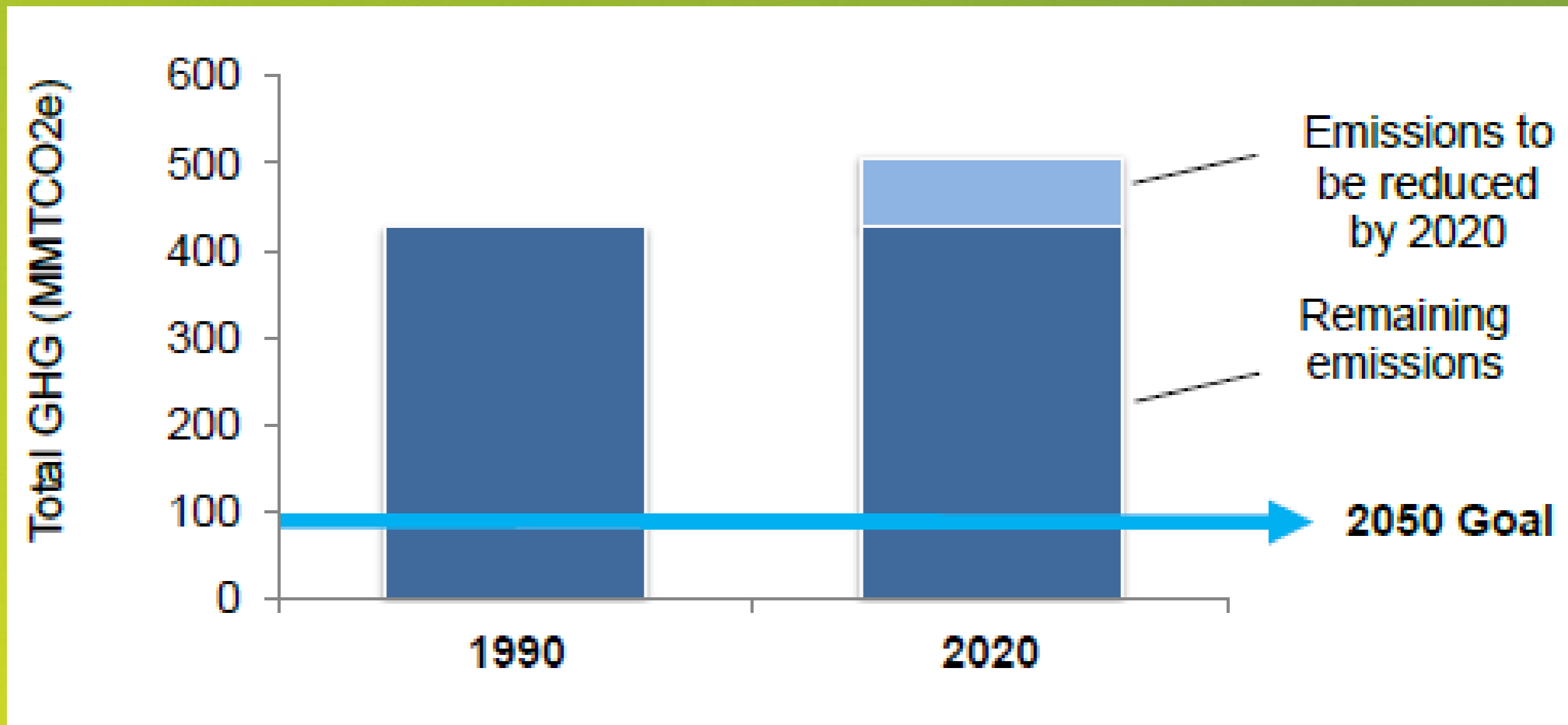
* High-GWP means high "global warming potential."

** MMTCO2e means "Million Metric Tons of Carbon Dioxide (CO2)-equivalent" emissions

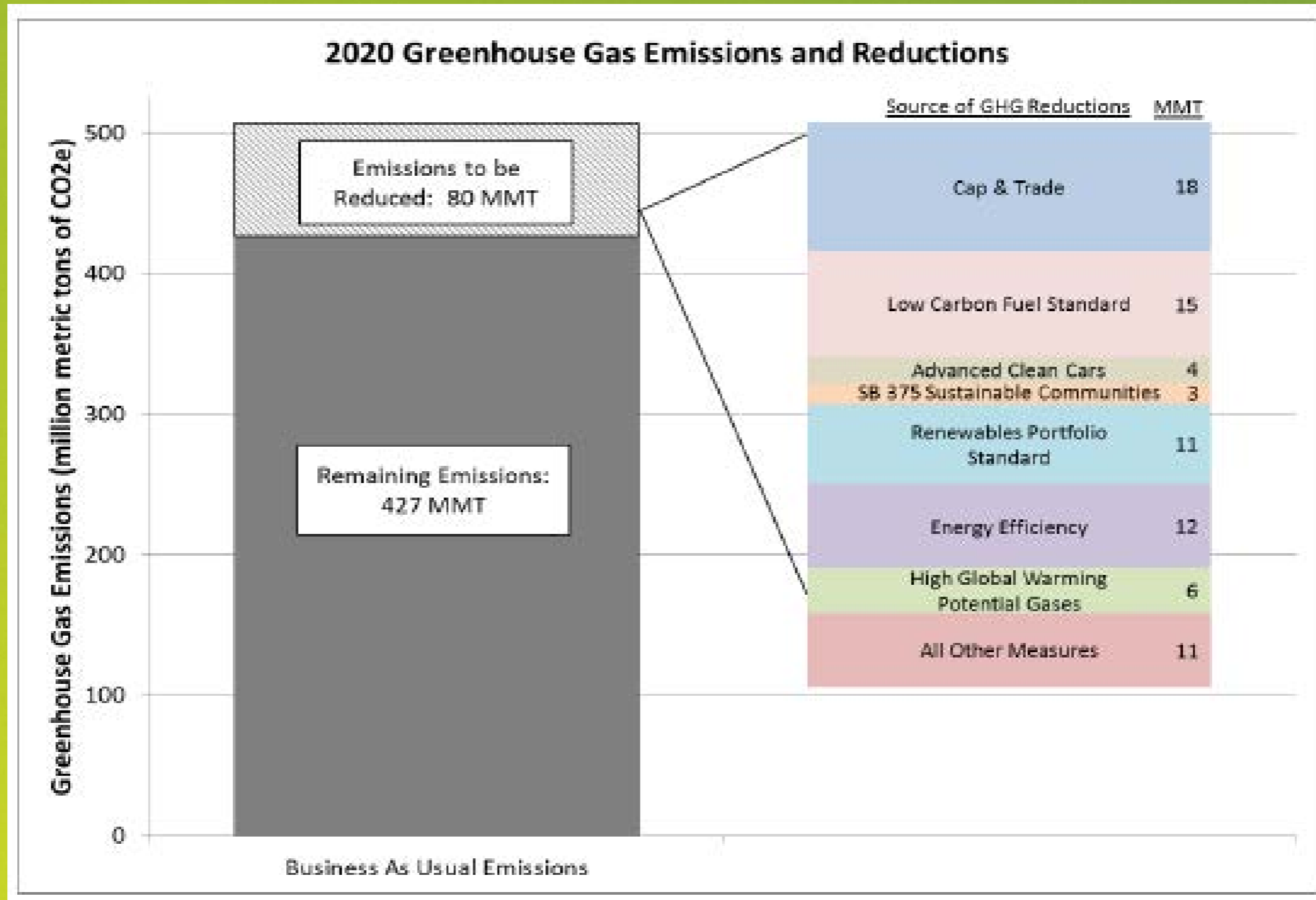




California GHG Inventory and Long-Term Reduction Goals



Where are the Reductions Coming From?





California Cap and Trade Program

- > AB 32 Global Warming Solutions Act
 - > Defines the GHG Emissions Goal
 - > Cap and Trade Program
- > Scoping Plans: 2008 & 2013
- > Program began in 2012
- > Tiered Schedule for Covered Entities
 - > Large Emitters (2012-2014)
 - > Small Emitters (2015-2017)
 - > 25,000 MtCO₂ threshold
- > Transportation Fuel Covered in 2015
 - > LCFS



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Timeline

- > **February 2013: Public Hearing on Investment Plan**
- > **March 8, 2013: Last Day to Submit Investment Plan Comments**
- > **Early April 2013 – Release Draft Investment Plan**
- > **April 25-26 , 2013- ARB Public Hearing in Sacramento on Plan**
- > **May 2013 - Final Investment Plan to Legislature**
- > **June 2013 - Budget Decisions for FY 2013-14**

- > **State agencies that receive appropriations use the money to fund projects that help achieve GHG reductions and further other AB 32 objectives, in accordance with AB 1532 and SB 535**



Funding Priorities (AB 1532)



- > Goods Movement
- > Advanced technology vehicles and vehicle infrastructure
- > Strategic planning and development of sustainable infrastructure projects: transportation and housing
- > Low-carbon and efficient public transportation
- > Advanced biofuels
- > Energy-Efficiency and Renewable Energy Programs
- > Water use and supply
- > Increased in-state diversion of municipal solid waste from disposal through waste reduction, diversion, and reuse
- > Land and natural resource conservation and management
- > Forestry and sustainable agriculture
- > Local programs and investments
- > Innovative technologies, measures, and practices





Clean Transportation – Investment Priorities

- > **Highlighted in the Governor's proposed budget:**
 - > **Mass transit**
 - > **High speed rail**
 - > **Electrification of heavy duty and light duty vehicles**
 - > **Sustainable communities**
 - > **Electrification and energy projects that complement high speed rail**



Clean Transportation Coordination

- > **Business, Transportation & Housing Agency (BTH)**
- > **CA Environmental Protection Agency (Cal/EPA)**
- > **CA Department of Transportation (Caltrans)**
- > **CA Air Resources Board (ARB)**
- > **CA Energy Commission (CEC)**
- > **High Speed Rail Authority (HSRA)**
- > **Strategic Growth Council (SGC)**



Examples of Integrated Systems to Reduce GHG Emissions



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(ARB, 2013)



Investments in Cleaner Vehicles and Equipment

- > Expand use of zero-emission passenger cars and buses
- > Develop, demonstrate, and deploy zero/near-zero emission equipment to move freight (e.g., trucks, locomotives, cargo equipment)
- > Build new infrastructure to support electrification, high-speed rail, and advanced technology vehicles
- > Research/develop biofuels & other low-carbon fuels



Investments to Improve System Connectivity and Efficiency

- > Provide coordinated ticketing & scheduling for transit**
- > Upgrade infrastructure to improve transit operations & reduce travel times**
- > Expand infrastructure to link systems**
- > Transit (high-speed rail, other rail, bus)**
- > Freight (trucks, ships, locomotives)**
- > Increase freight efficiency**

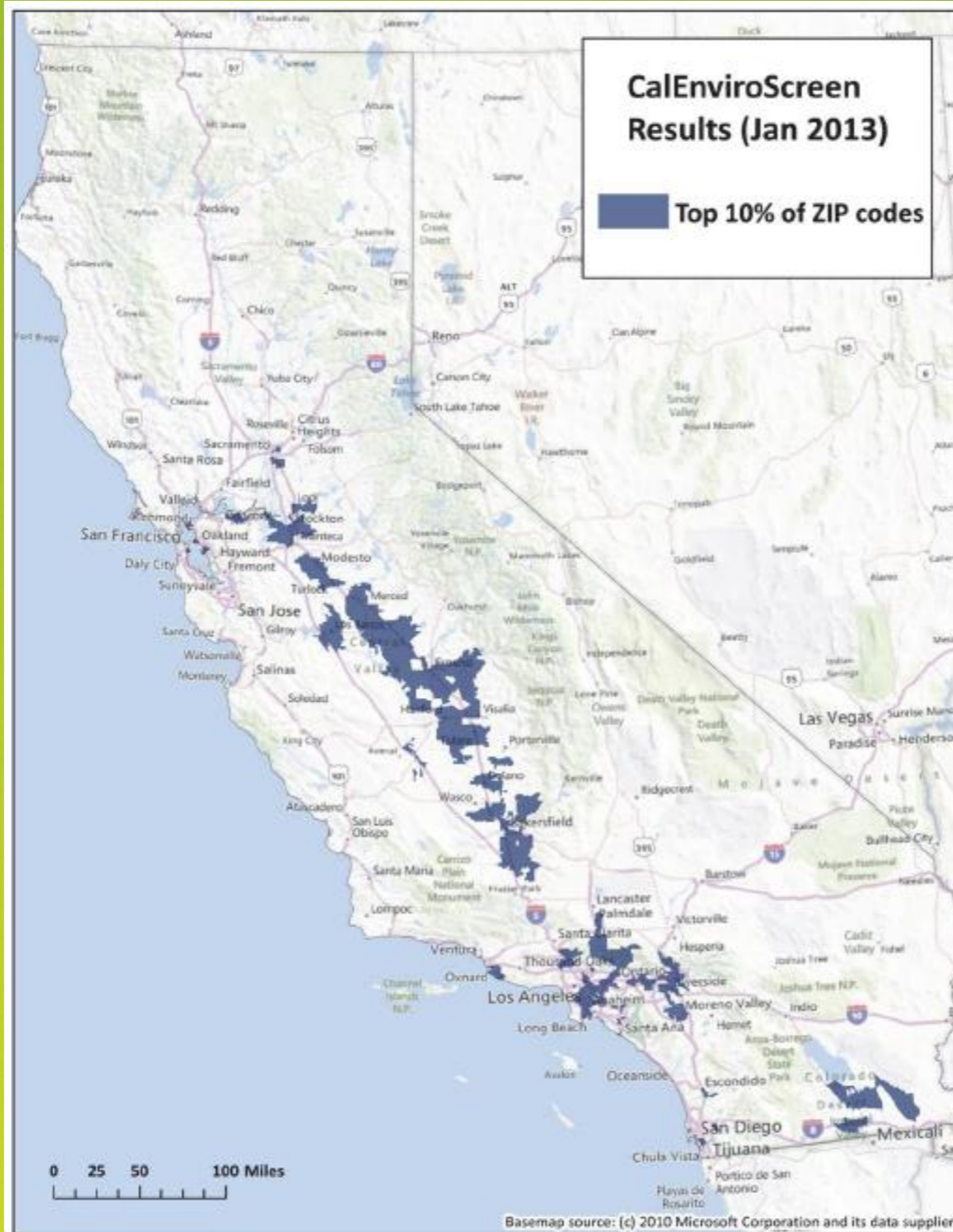




Investments in Planning and Land Use

- > **Help locals develop implementable plans**
 - > **Connect transportation and land use**
 - > **Support SB 375 goals**
 - > **Support biking and walking**
 - > **Promote infill and transit oriented development**
 - > **Improve transit access for disadvantaged communities**

CalEnviroScreen Tool



Disadvantaged Communities for Investment of Auction Proceeds

*SB 535
(De León,
Chapter 830)*



Co-Benefits of Transportation Investments

- > Reduced air pollution and improved health, especially in disadvantaged communities
- > Improved transportation mobility and safety, reduced traffic congestion
- > Enhanced energy security
- > Job creation
- > Preservation of agricultural land and protection of natural resources



Metro Related Activities

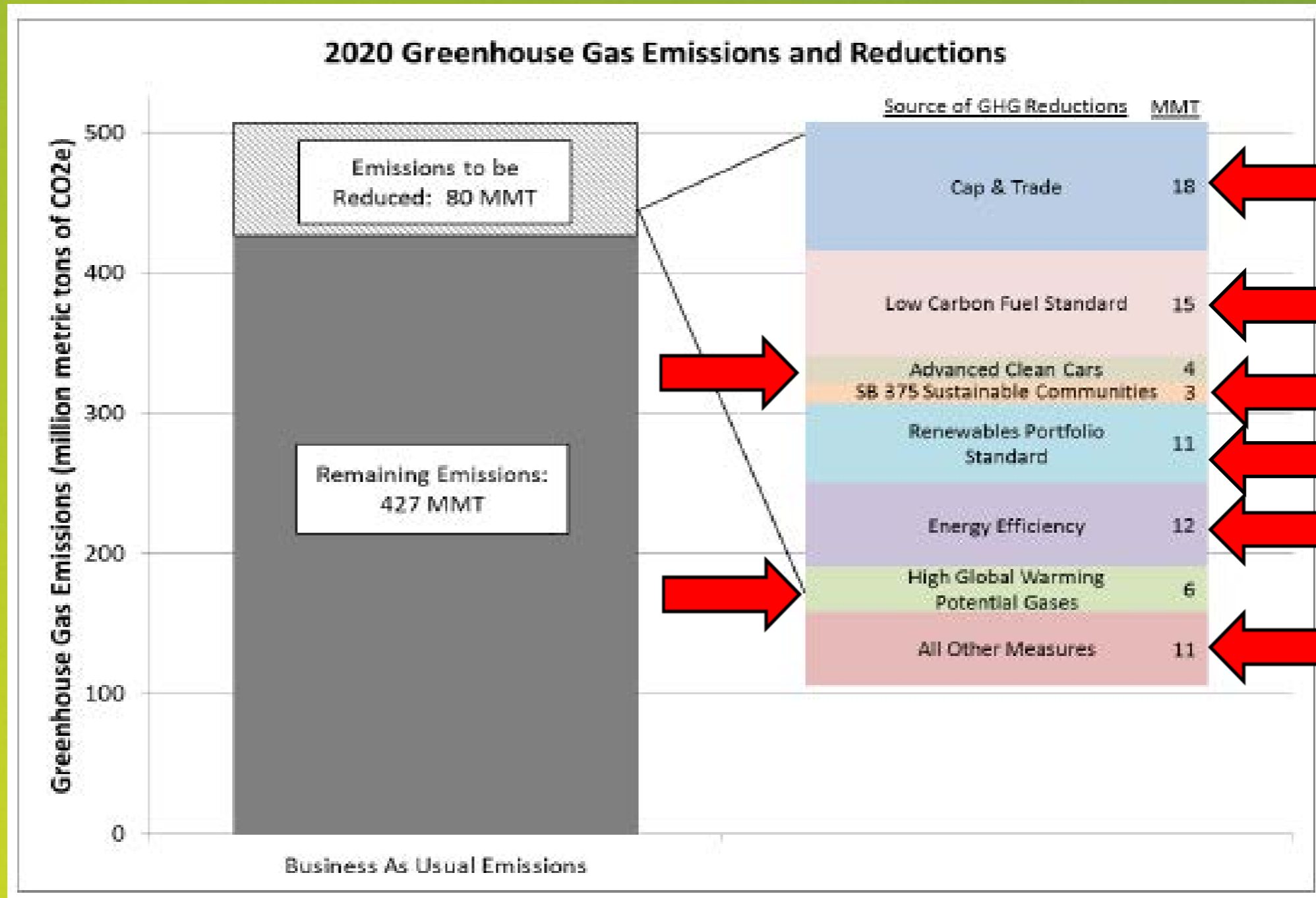
- > **Coordination with Other Stakeholders**
- > **Developed Detailed Comments: March 8**
- > **Develop a Cap and Trade Brochure**
- > **March 2013 Board Report**
- > **Legislative Advocacy**

- > **Low Carbon Fuel Standards Program**
- > **Biomethane**
- > **Energy Related Projects**
 - > **Efficiency and Renewable Energy**



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Which Strategy is Metro Pursuing?



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(ARB, 2013)



Additional Resources

> **Concept Paper:**

http://www.arb.ca.gov/cc/capandtrade/auctionproceeds/workshops/concept_paper.pdf

> **ARB Climate Change Programs:** <http://www.arb.ca.gov/cc/cc.htm>

> **Metro ECSD Initiatives:** <http://www.metro.net/projects/ecsd>



Questions/Discussion

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