



2030 Target Scoping Plan Update

November 19, 2015



Today's Climate Change Presentations

- ▣ 2030 Target Scoping Plan Update
 - ▣ near- and long-term vision for the State
- ▣ Cap-and-Trade Program
 - ▣ economy-wide program
 - ▣ backstop ensures GHG targets are achieved
- ▣ U.S. EPA's Clean Power Plan Rules
 - ▣ national power sector plan
- ▣ Cap-and-Trade Adaptive Management
 - ▣ ensuring no disproportionate air quality impacts

Presentation Outline

- ▣ California Climate Strategy
- ▣ AB 32 Background and Goals
- ▣ Process for the 2030 Target Scoping Plan Update
- ▣ 2030 Target Scoping Plan Overview
- ▣ Advisory Groups
- ▣ Tentative Schedule

CALIFORNIA CLIMATE STRATEGY

An Integrated Plan for Addressing Climate Change



VISION

**Reducing Greenhouse Gas Emissions
to 40% Below 1990 Levels by 2030**

GOALS

**50%
reduction
in petroleum
use in vehicles**



**50%
renewable
electricity**



**Double energy
efficiency savings
at existing buildings**



**Carbon
sequestration
in the land base**



**Reduce
short-lived
climate pollutants**

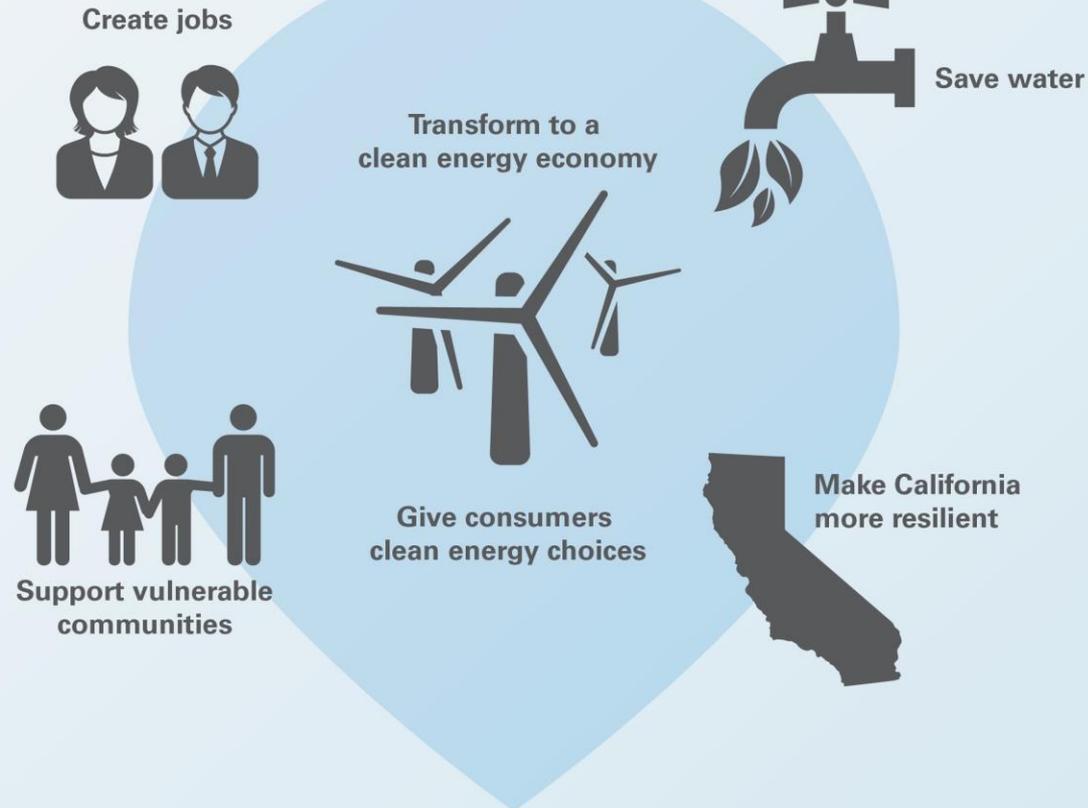


**Safeguard
California**



CALIFORNIA CLIMATE STRATEGY

PRINCIPLES



CALIFORNIA CLIMATE STRATEGY

IMPLEMENTATION

SCOPING PLAN

Climate Action Plans

SLCP Plan

Forest Carbon Plan

Other plans/regulations for renewables, efficiency, transportation, fuels

LEGISLATION

Cap and Trade Regulation

GGRF Investment Plan

2040 CA Transportation Plan

AB758 Energy Efficiency Plan

Healthy Soils Action Plan

BUILDING BLOCKS

Partnerships



Research



Incentives



Grants



Voluntary Action



Regulations



Local Action



AB 32 Objectives

- ▣ Develop a balanced approach to address climate change
- ▣ Improve air quality and public health
- ▣ Provide a consistent policy approach to drive investment in clean technology
- ▣ Provide a model for future national and international climate change efforts
- ▣ Achieve 1990 emissions by 2020; maintain and continue reductions past 2020
- ▣ Coordinate efforts across government agencies

Prior Scoping Plans

- ▣ Established new paradigm for climate mitigation
- ▣ First economy-wide climate change plan
- ▣ Pioneered the concept of a market-based greenhouse gas reduction program supplemented with complementary measures
- ▣ Sector-by-sector approach
- ▣ Public outreach and education
- ▣ Must be updated at least every 5 years

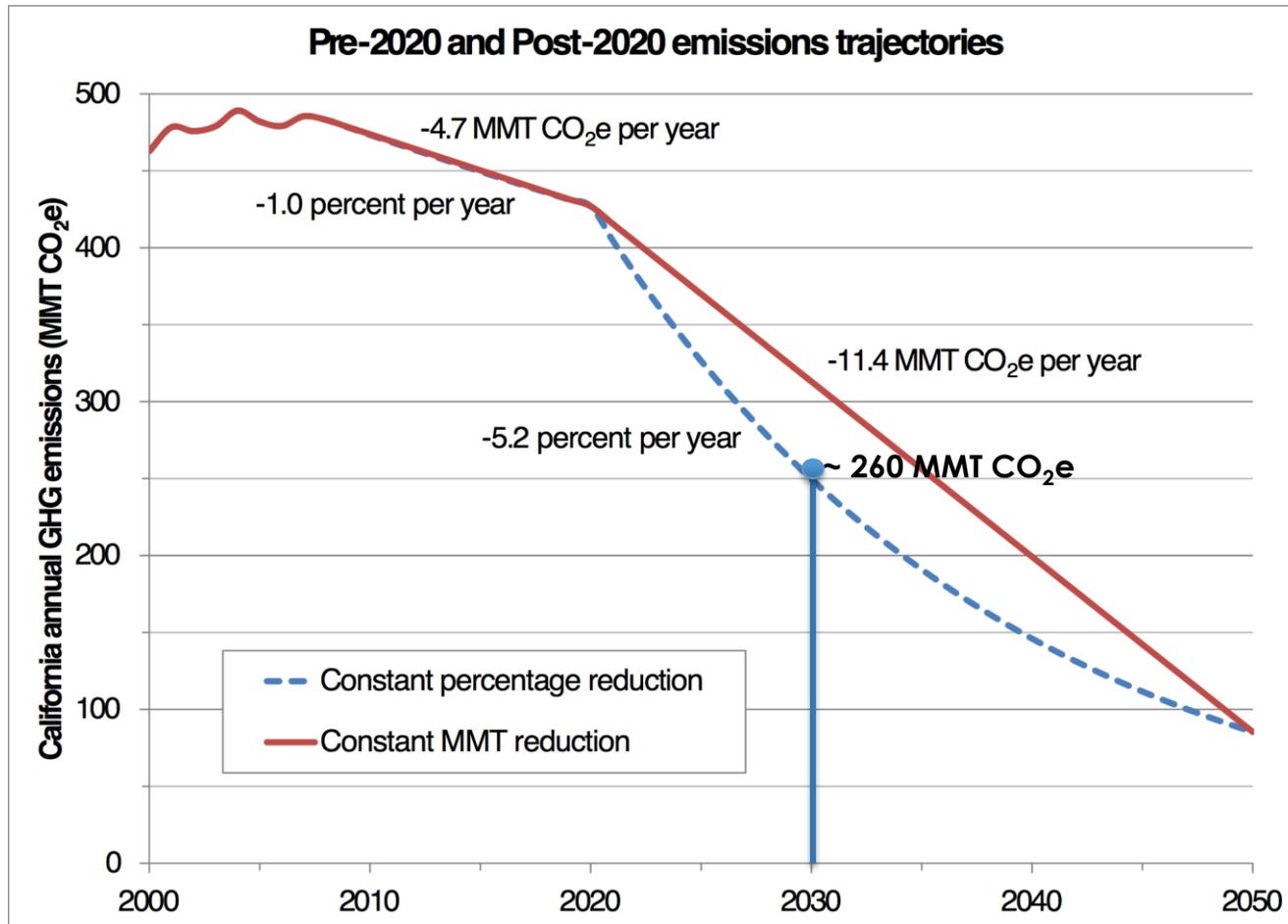
Executive Order B-30-15

- Reduce greenhouse gas emissions to 40% below 1990 levels by 2030 to ensure California meets its target of reducing greenhouse gas emissions to 80% below 1990 levels by 2050
- Update the AB 32 Scoping Plan to incorporate the 2030 greenhouse gas target
- Update the State's climate adaptation strategy and factor climate change into planning and investment decisions

2030 Target Scoping Plan Development

- ▣ Collaborate with State Agencies
- ▣ Engagement with Legislature
- ▣ Coordination with other plans (i.e. 111(d), Cap & Trade, SIP, Freight Strategy, etc.)
- ▣ Environmental Justice Advisory Committee Engagement
- ▣ Environmental Analysis (CEQA)
- ▣ Public Process: Workshops
- ▣ Economic Analysis with Peer Reviewers
- ▣ Draft Report / Final Report (targeted measures and estimated emission reductions)

Path to 2050 Greenhouse Gas Target



Guiding Principles

- ▣ Reduce Greenhouse Gas Emissions to 40% Below 1990 Levels by 2030 (Executive Order B-30-15)
- ▣ Create jobs and support a robust workforce
- ▣ Save water
- ▣ Support Disadvantaged Communities
- ▣ Make California more resilient
- ▣ Transform to a clean energy economy
- ▣ Give consumers clean energy choices

Achieving the 2030 Target

- Continuation and strengthening of programs established to reach the 2020 GHG emissions reduction target
 - Low Carbon Fuel Standard
 - Renewable Portfolio Standard
 - Advanced Clean Cars Program
 - ZEV Program
 - Sustainable Freight Strategy
 - SB 375 Sustainable Communities Strategy
 - Cap-and-Trade Program
 - Preferred option with declining caps
 - Evaluation of carbon tax and prescriptive regulations

Elements of 2030 Strategy

- Focus areas
 - Energy
 - Energy Efficiency
 - Transportation
 - Industry
 - Water
 - Natural and working lands
 - Agriculture
 - Waste management
- Maximize synergies among sectors

Environmental Justice Advisory Committee

- Environmental Justice Advisory Committee (EJAC) to advise the Board in developing the Scoping Plan
 - Representatives from communities in State with the most significant exposure to air pollution, including communities with minority populations or low-income populations, or both
- 13 members representing all regions of the State
- Committee meeting planned for early December 2015
- AB 32 directs EJAC to advise in implementation of Act
- Board engagement:
 - 2 additional Board members
 - Supervisor Serna

Goals of the Economic Analysis

- Evaluate the economic impact of options for achieving the 2030 GHG target
 - Estimate the economic impact of various technology pathways and carbon pricing
 - Assess the economic impact of options for achieving the 2030 GHG emission target on the California economy, California businesses, and individuals
 - Inform measure development

Expert Reviewers

- ▣ Core group of experts in economics, modeling, and technology, with insight from additional experts as needed
- ▣ Public meetings
- ▣ Review the economic and technical assumptions and methods in the technology pathways and macroeconomic analyses
- ▣ Review metrics and tools proposed to be utilized

Public Process to Date

- ▣ 2030 Target Scoping Plan Update Kickoff Workshop - October 1, 2015
- ▣ Multi-agency participation
- ▣ Public comments (oral and written)
 - ▣ Over 30 written comments received
- ▣ Continued opportunity for robust public process

Next Steps: Tentative Schedule

- EJAC Meeting – Early December 2015 (tentative)
- Regional workshops – Winter 2015 to Spring 2016
 - Bay Area, Los Angeles, Central Valley
- Technical and Econ Workshops – Winter 2015 to Mid 2016
 - Economic/environmental analyses
- Draft 2030 Target Scoping Plan – Spring 2016
 - 45-day informal comment period prior to Board hearing on draft
- Final 2030 Target Scoping Plan presented to Board – Fall 2016

Questions and Comments