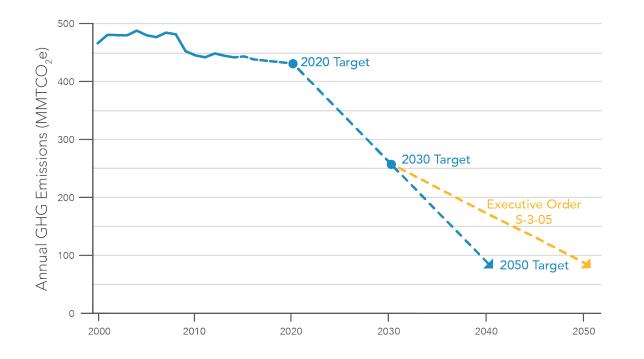
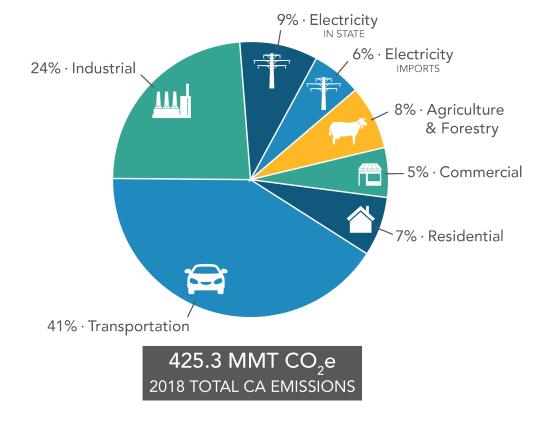
# Overview of California Cap-and-Trade Program



OCTOBER 2021

### California GHG Reduction Targets





Source: CARB, 2017

## CARB's Climate Portfolio for 2030 Target



Double building efficiency



More clean, renewable fuels



Cleaner zero or near-zero emission cars, trucks, and buses



Walkable/bikeable communities with transit



Cleaner freight and goods movement



60% renewable power



Slash potent "super-pollutants" from dairies, landfills and refrigerants



Cap emissions from transportation, industry, natural gas, and electricity



Invest in communities to reduce emissions



Protect and manage natural and working lands

#### Cap-and-Trade: Program Development

- Broad implementing legislation (AB 32) to achieve GHG reductions
- Multiple years of policy discussions as a member of the Western Climate Initiative helped shape the design of the Program
- Extensive communication and engagement with industry, government, academic, and public stakeholders
- Broad education and communication efforts to ensure the public was aware of opportunities to participate in the process
- Formal rulemaking culminating in approval of the Cap-and-Trade Regulation by CARB's Board in 2011

#### Public Participation

Informal workshops and public meetings were used to:

- Introduce new ideas to stakeholders
- Have stakeholders explain special circumstances
- Discuss the rationale for draft regulation changes
- Explain implementation

 Expert advisory groups provided venues to understand and address a range of perspectives on economics, market design, technology, and environmental justice

Formal participation in formal public rulemaking process

#### External Capacity Building

- Instantaneous distribution of information on CARB's website and through e-mail bulletins
- Easily accessible information on all aspects of the Program
- Publication of regulatory guidance
- CARB provides training and accreditation for verifiers in the Mandatory Reporting Program and for offset project verifiers
- CARB Help Desk provides stakeholder assistance through telephone and email

### Cap-and-Trade Program Background

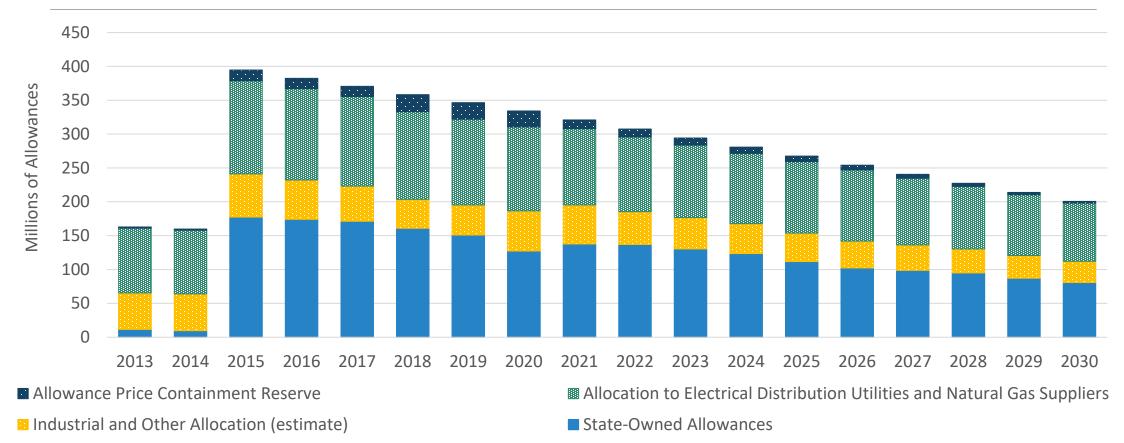


- Critical part of State strategy to achieve AB 32 and SB 32 GHG reduction targets
  - Ensure GHG reduction targets are realized through a strict limit
  - 2017 Scoping Plan that includes Cap-and-Trade is four times less costly than alternatives
- Works in concert with other complementary air quality and climate policies
- Provide compliance flexibility to achieve cost-effective reductions
- Facilitate integration of regional, national, and international GHG reduction programs
- Program linked with cap-and-trade system of Québec

## Cap-and-Trade: Facts and Figures

- Covers ~80% of State's emissions
- ~450 covered entities in the Program
  - Based on annual, third-party verified reported GHG data
  - Large industrial sources & electricity generators with emissions ≥ 25,000 MTCO2e per year
  - Electricity importers, natural gas suppliers, and transportation fuel suppliers
- 32 auctions held to-date (24 joint-auctions)
  - First joint auction with Québec was held in November 2014
- Over \$13 billion generated for California Climate Investments
  - ~50% of investments are benefiting disadvantaged communities

#### Cap-and-Trade Allowance Budgets

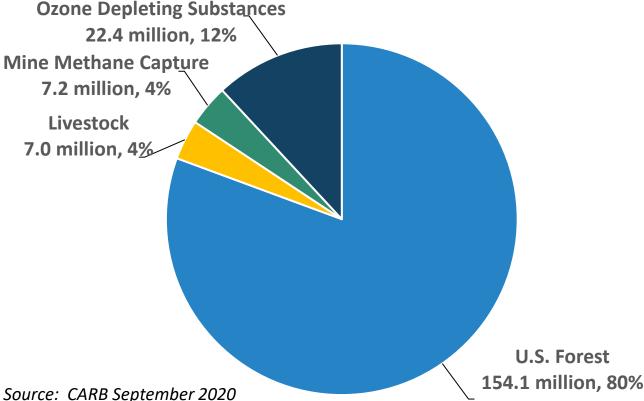


#### Source: CARB 2018

## **Compliance Flexibility**

#### Offset credits issued, Sept. 2020

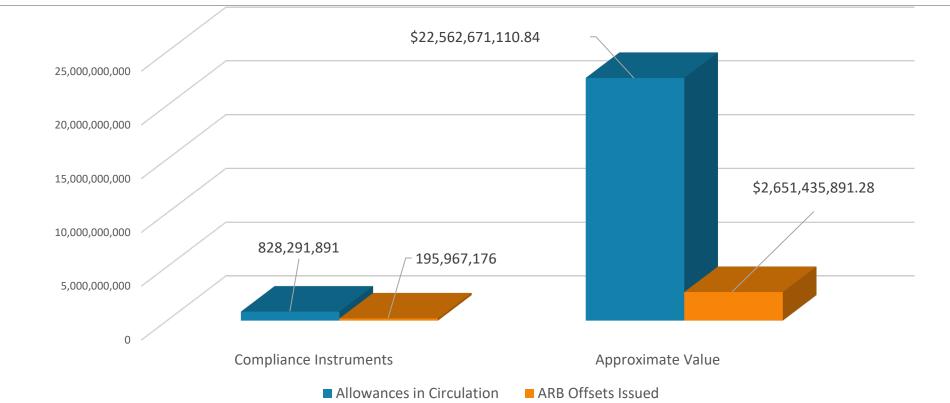
- Allowances never expire
  Limited Use of Offset Credits
- Banking subject to holding limits (hedging with protections from cornering the market)
- Multi-year compliance periods



## Cap-and-Trade: Market Integrity

- Mechanisms for ensuring market integrity
  - Auction purchase and account holding limits
  - Registration and relationship disclosure requirements
  - Tracking system (CITSS)
  - Financial penalties
- Oversight
  - Coordinate with the U.S. Commodity Futures Trading Commission (CFTC) and Federal Energy Regulatory Commission (FERC)
- Enforcement
  - Coordinate with California Department of Justice

### Approximate Value of Compliance Instruments in the Cap-and-Trade Program



- Compliance instrument quantities are from the <u>Q3 2021 Compliance Instrument Report</u>.
- For this slide, allowance quantities in circulation include those in entity general and limited use holding accounts. The allowance price of \$27.24 is the ICE Current Vintage Settlement Price for December delivery on October 8, 2021, as publicly published at theice.com. The offset quantity reflects total ARB offset credits issued, minus those that those in the forest buffer and invalidation accounts. The offset price (\$13.53) is the weighted average price as reported in the <u>Q2 2021 Summary of Market Transfers Report</u>.

#### California and Québec Carbon Allowance Prices

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Secondary Market Prices are a composite of commodity exchange futures contract prices for near month delivery and a survey of OTC brokered transactions for California Carbon Allowances. Secondary market prices are provided with permission of <u>Argus Media Inc.</u>

#### Resources

Cap-and Trade Website:

https://ww2.arb.ca.gov/our-work/programs/cap-and-trade-program

Mandatory Reporting Website:

https://ww2.arb.ca.gov/our-work/programs/mandatory-greenhouse-gas-emissions-reporting