2022 Scoping Plan
California’s Proposed Strategy for Achieving Carbon Neutrality
Recent Climate Legislation

**AB 1279**

- 2045 carbon neutrality target, anthropogenic emissions to be reduced by 85% by 2045 relative to 1990 levels

**SB 905**

- Establishes a Carbon Capture, Removal, Utilization and Storage Program
Anthropogenic GHGs
Target 2045: 85% Reduction below 1990

- Some emissions remain in the AB 32 Sectors even after application of CCS
- Need carbon dioxide removal to compensate for residual emissions to achieve carbon neutrality
Significant GHG Emissions Reductions in Petroleum Refining Sector

85% reduction in Petroleum Refining GHGs without CCS and 94% with CCS

Petroleum Refining phased down with fuel demand through 2045
Role and Scaling of Carbon Dioxide Removal (CDR)

AB 32 GHG Inventory Sectors: Significantly reduced, but some emissions remain even with CCS

- Role of CDR is reduced if:
  - We reduce the emissions from the AB 32 GHG Inventory Sectors faster
  - NWL are able to become a sink

NWL a modest source

Need carbon dioxide removal to compensate for AB 32 GHG Inventory and NWL sectors
Cap-and-Trade Program & CCUS

• California Cap-and-Trade Program does not currently recognize reductions achieved through CCUS

• Once a SB 905 program is established, the Cap-and-Trade Regulation would need to be amended to count CCUS

• Longstanding policy stance: count CCUS towards reducing compliance obligations under the Program
  • Candidates for CCUS will be largest emitters that are covered by the Program
Ambitious Action Delivers Huge Benefits

Unprecedented Deployment of Clean Technology and Nature-Based Climate Solutions

- 37x total on-road ZEVs
- 6x electric appliances in residences
- 1700x hydrogen supply
- 4x installed wind/solar generation capacity
- > 2.5 Million acres of NWL climate action per year

Significant GHG Reductions

- 94% decrease in liquid petroleum fuel demand
- 91% decrease in fossil gas used in buildings
- 66% decrease in methane emissions from agriculture
- 10% reduction in wildfire emissions

In 2045 relative to 2022
CALIFORNIA’S CLIMATE PLAN LAYS THE ROADMAP TO 2045

- Cut air pollution 71%
- Slash greenhouse gas emissions 85%
- Drop gas consumption 94%
- Create 4 million new jobs
- Save Californians $200 billion in health costs due to pollution

Rajinder Sahota
Deputy Executive Officer
California Air Resources Board