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SB 350 Integrated Resource Planning Interagency Meeting

February 23, 2017

California Air Resources board



Outline

- ▣ Interagency Process
- ▣ 2017 Scoping Plan Update

SB 350 Requirements

- “[...]greenhouse gas emissions reduction targets established by the State Air Resources Board, in coordination with the commission and the Energy Commission, for the electricity sector and each load-serving entity that reflect the electricity sector’s percentage in achieving the economy wide greenhouse gas emissions reductions of 40 percent from 1990 levels by 2030.”
- ARB must “establish” sector and individual LSE planning targets.
- ARB Process
 - Public Workshops
 - Formal proposal with formal comment periods
 - ARB Board action

Interagency Process

- CPUC and CEC have significant and equal roles in establishing sector and individual LSE planning targets
- Each energy agency has its own required process
- 3 agencies will facilitate joint informal public process
 - Avoids duplication and streamlines process for agencies and stakeholders
 - Workshops will be attended by staff from three agencies, even if not noticed as joint workshops
 - Agencies will collaborate on public materials and jointly review comments and stakeholder feedback as appropriate
- ARB website will link to energy agency websites on this process and include any public workshop meeting details

2017 Scoping Plan Background

- Most aggressive climate target in North America: 40% reduction in GHGs by 2030 compared to 1990 levels
 - Builds on California's success reducing GHGs
 - Aligns California with the rest of the world in climate change fight
- Proposed Plan draws on the successes and the lessons learned from the previous plans
- Proposes continuing major successful programs that have served as a model for other states and jurisdictions around the world
- Proposed Plan achieves GHG reduction target and continues to make our communities and economy more resilient and equitable at the same time
- Scoping Plan and IRP are separate processes that address different needs in response to different statutory requirements

2017 Scoping Plan Objectives

- ▣ Achieve 2030 target
- ▣ Provide direct GHG emissions reductions
- ▣ Provide air quality co-benefits
- ▣ Minimize emissions leakage
- ▣ Support climate investment in disadvantaged communities
- ▣ Protect public health
- ▣ Facilitate sub-national and national collaboration
- ▣ Support cost-effective and flexible compliance
- ▣ Support Clean Power Plan and other federal action

Proposed Scoping Plan Summary

- ▣ *SB 350 – increase renewable energy and energy efficiency
- ▣ *SB 1383 – Short-Lived Climate Pollutant Reduction Plan
- ▣ *SB 375 – support sustainable community development
- ▣ *Mobile Source Strategy – help State achieve its federal and state air quality standards
- ▣ *Low Carbon Fuel Standard
- ▣ *Sustainable Freight Action Plan
- ▣ New Refinery Efficiency Measure – 20 percent by 2030
 - ▣ Fewer GHG emissions per barrel of a refined product
- ▣ Post-2020 Cap-and-Trade Program
 - ▣ Trading and offset usage limit of 8 percent

*Existing commitments included in any Scoping Plan Update

Energy Sector Details

- ▣ Increase Renewables Portfolio Standard to 50 percent by 2030
- ▣ Doubling of energy efficiency savings in natural gas and electricity end uses statewide by 2030
- ▣ Decrease methane emissions by 40 percent by 2030
- ▣ Behind-the-meter solar photovoltaic to reach 18.2 GW statewide by 2030
- ▣ Energy storage procurement target of 1.325 GW to be met by 2020
- ▣ Passenger ZEV/PHEV fleet population of 4.2 million by 2030

Estimated GHGs by Sector

Sector	1990 GHGs	2030 Scoping Plan GHG Range	% change from 1990
Agriculture	26	24-25	-8 to -4
Residential and Commercial	44	38-40	-14 to -9
Electric Power	108	42-62	-61 to -43
High GWP	3	8-11	167 to 267
Industrial	98	77-87	-21 to -11
Recycling and Waste	7	8-9	14-29
Transportation (including TCU)	152	103-111	-32 to -27
Net Sink	-7	TBD	TBD
Sub Total	431	300-345	-30 to -20
Cap-and-Trade	n/a	40-85	n/a
Total	431	260	-40

Schedule

- ▣ CEQA comment period: January 20 – March 6
- ▣ Workshops today and in early March
- ▣ February Board Hearing
- ▣ Spring 2017: Release Final Proposed Scoping Plan
- ▣ Spring 2017: Final Board consideration
- ▣ Fall 2017: ARB Board Consideration of SB 350 Sector and Individual Planning Targets