

Laurie Waybarn
07-10-3

Adopting the Forest Protocols Maintains California's Climate Leadership

- Achieves significant early action GHG reductions
- Provides elegant solution to complex sector; second largest source of emissions globally
- Internationally significant; sets global standard for sector

Forests are part of the problem and part of the solution

Forest loss and depletion is a significant source of CO2 emissions

- 2nd largest source of global emissions; 25% of CO2
- 40-50% of excess CO2 now in atmosphere
- California is part of the problem

Forests provide significant opportunities for net emission reductions

- Increase carbon sequestration and avoid emissions
- Restoring natural carbon capacity key for adaptation
- California's forests amongst most productive in the world



Forest Protocols produce real, permanent, quantifiable and verifiable emission reductions

Standards fulfill universally accepted GHG

Project Principles:

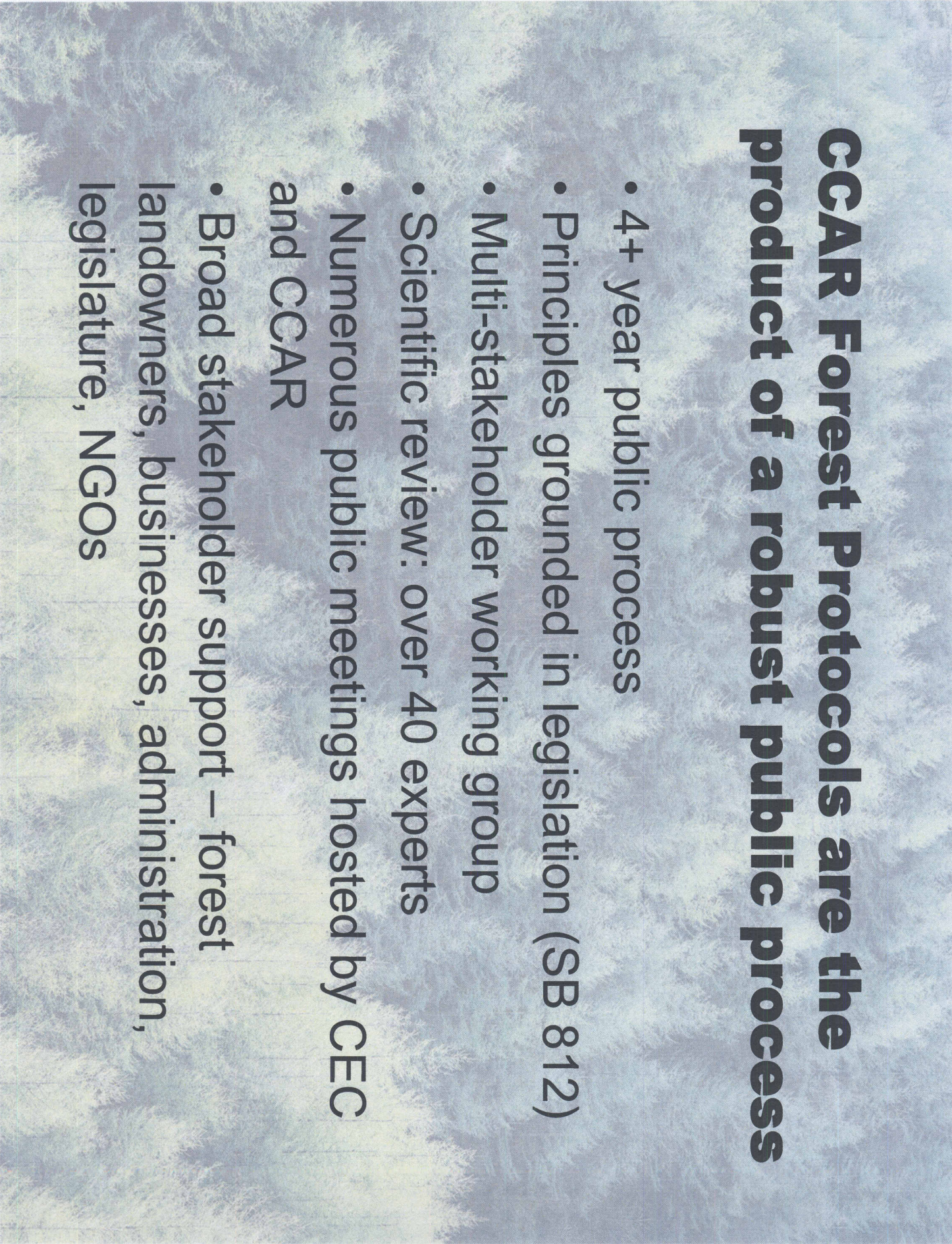
- Baselines/Additionality
- Permanence
- Leakage
- Independent verification

Principles common to all sectors; reflected in Kyoto, RGGI, WRI, AB 32, MAC report

An aerial photograph of a forest, showing a grid pattern overlaid on the trees. The text is positioned on the right side of the image.

CCAR Forest Protocols are Scientifically Sound and Rigorous

- Carbon Quantification Method balances *Rigor and Flexibility*
- Rigorous inventory requirements and sliding scale discounting are designed to achieve high level certainty
- Provides peer reviewed default equations and models, while allowing flexibility to use other models and equations

An aerial photograph of a forest, showing a grid pattern overlaid on the trees. The text is positioned on the right side of the image.

CCAR Forest Protocols are the product of a robust public process

- 4+ year public process
- Principles grounded in legislation (SB 812)
- Multi-stakeholder working group
- Scientific review: over 40 experts
- Numerous public meetings hosted by CEC and CCAR
- Broad stakeholder support – forest landowners, businesses, administration, legislature, NGOs

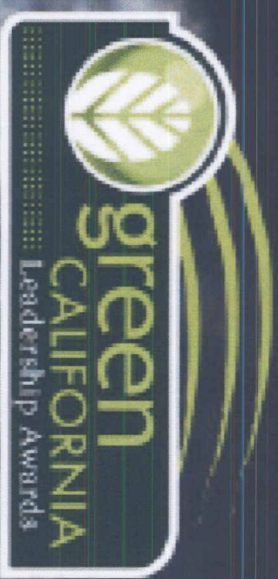
An aerial photograph of a dense forest, showing a grid of roads or paths cutting through the trees. The image is slightly blurred and has a semi-transparent white box overlaid on the right side, containing text.

Adoption of Forest Protocols is an opportunity for California

- Allows ARB to report early progress on AB 32
- Encourages high quality emission reductions from the forest sector
- Sends signal to market and investors
- Maintains consistency with AB 32 & MAC recommendations

The time to act is now

- Doubt & confusion has stalled progress on global climate change for too long
- 2-step process proposed by ARB is a rational and prudent way forward
- Goal is to create real benefits for the climate, not maximize financial return



Climate Change

California Department of Forestry and Fire Protection (CAL FIRE)

Project: *Forest Sector Protocols to Address Climate Change*



The Sacramento Bee

Janis Heaphy • Publisher and President

Joyce Terhaar
Managing Editor

David Holwerk
Editorial Page Editor

Marla Henson
Deputy Editorial Page Editor

OPINION

EDITORIALS

Air Resources Board can take dramatic steps

California's global warming law — Assembly Bill 32 — sets tight deadlines for enacting regulations to reduce greenhouse gases 25 percent by 2020.

One such deadline required the California Air Resources Board, by July of this year, to approve "early-action" measures to reduce emissions in advance of a more comprehensive program.

The air board met the July deadline, but by anyone's standard, the board's proposals were not nearly as far-reaching as the law intended. Partly because of disputes with the Schwarzenegger administration, the board approved a mere three items in June. Soon afterward the governor fired the board's chairman, and its executive

officer resigned.

Since taking the helm in July, CARB Chair Mary Nichols and her staff have

worked to expand the agency's strategy. On Thursday and Friday, the board will consider an additional 41 early-action measures — some fairly simple, others more complex. If all were enacted, the 41 actions and the three earlier ones would reduce California's greenhouse gases by 4.2 million metric tons — about a quarter of the tonnage the state must cut by 2020 to meet the law's requirements.

While there's not enough space to detail all 41, three of these measures deserve special attention and should be approved by the air board when it meets:

Wide array of early-action measures will lead to major cuts in greenhouse gases.

• **Retrofitting of long-haul trucks and trailers:** Heavy duty trucks consume more than 3 billion gallons of diesel fuel each year. That means even small improvements in fuel economy could mean big reductions in both greenhouse gases and air pollution. To improve fuel economy, the air board staff has identified a mix of side skirts, roof fairings and other devices that can make trucks and trailers more aerodynamic.

By phasing in retrofits of these devices on truck-trailers that are registered in California and travel through it, the state could reduce greenhouse

emissions by an estimated 20 million metric tons a year, including 2 million metric tons generated in

California yearly, according to estimates by the air board's staff. They also would reduce air pollution, particularly in the Central Valley.

• **Electrification of ports:** When cargo ships dock at California's ports, they often run auxiliary engines to power refrigeration and other equipment. These engines spew massive amounts of pollution, including greenhouse gases and diesel soot.

The board's proposal would require ports to make electrical outlets available so ships could power their equipment while docked without running their engines. Such a measure would

reduce about 500,000 metric tons of carbon dioxide yearly by 2020.

• **Forestry protocols:** Owners of timberland are becoming interested in managing their land in ways that reduce and sequester carbon dioxide. Companies and nonprofits, for instance, are interested in investing in "offsets" that will produce real, verifiable and permanent CO₂ reductions. To encourage this trend, the board should approve protocols by the California Climate Action Registry that will guide owners of timberland on how to manage their forests if they want to receive such credit. Purchases of bogus offsets is already a huge problem worldwide. These protocols will help encourage some integrity.

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THE HOT HOUSE
Read Stuart Leavenworth's global warming blog at www.sacbee.com/hothouse

The Forest Protocols continue to receive broad public support from:



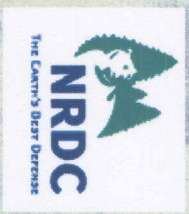
3 State departments and commissions



4 Academics and law professionals



20 California State Legislators



20 Registered Professional Foresters and forest landowners



10 Businesses and business groups

