



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765

(909) 396-2000, www.aqmd.gov

HYBRID CLIMATE CHANGE COMMITTEE MEETING

Committee Members

Supervisor V. Manuel Perez, Committee Chair
Board Member Veronica Padilla-Campos, Committee Vice Chair
Councilmember Michael Cacciotti
Supervisor Andrew Do
Supervisor Curt Hagman
Councilmember José Luis Solache

March 29, 2024 ♦ 9:00 a.m.

TELECONFERENCE LOCATION:

County Administration North
400 West Civic Center Drive
First Floor Multipurpose Room 101
Santa Ana, CA 92701

A meeting of the South Coast Air Quality Management District Climate Change Committee will be held at 9:00 a.m. on Friday, March 29, 2024, through a hybrid format of in-person attendance in the Dr. William A. Burke Auditorium at the South Coast AQMD Headquarters, 21865 Copley Drive, Diamond Bar, California, and remote attendance via videoconferencing and by telephone. Please follow the instructions below to join the meeting remotely.

Please refer to the South Coast AQMD's website for information regarding the format of the meeting, updates if the meeting is changed to a full remote via webcast format, and details on how to participate: <http://www.aqmd.gov/home/news-events/meeting-agendas-minutes>

ELECTRONIC PARTICIPATION INFORMATION (Instructions provided at bottom of the agenda)

Join Zoom Webinar Meeting - from PC or Laptop

<https://scaqmd.zoom.us/j/96257583334>

Zoom Webinar ID: 962 5758 3334 (applies to all)

Teleconference Dial In

+1 669 900 6833

One tap mobile

+16699006833,94589960931#

Spanish Language Audience Zoom Meeting ID: 932 0955 9643

Teleconference Dial In +1 669 900 6833

One tap mobile +16699006833,,93209559643#

Audience will be allowed to provide public comment in person or through Zoom connection or telephone.

PUBLIC COMMENT WILL STILL BE TAKEN

Cleaning the air that we breathe...

AGENDA

Members of the public may address this body concerning any agenda item before or during consideration of that item (Gov't. Code Section 54954.3(a)). If you wish to speak, raise your hand on Zoom or press Star 9 if participating by telephone. All agendas for regular meetings are posted at South Coast AQMD Headquarters, 21865 Copley Drive, Diamond Bar, California, at least 72 hours in advance of the regular meeting. Speakers may be limited to three (3) minutes total for all items on the agenda.

CALL TO ORDER ROLL CALL

INFORMATIONAL ITEMS (Items 1-2)

- 1. Summary of the Fifth National Climate Assessment and Air Quality Chapter**
Lead authors will provide an overview of the Fifth National Climate Assessment and Air Quality chapter, including climate impacts and co-benefits of mitigation actions.
(No Motion Required)

Allison Crimmins
National Climate Assessment

Chris Nolte
Federal Coordinating Lead
Author on Air Quality
Chapter of National
Climate Assessment
- 2. What Happens at United Nations Climate Conferences – A Local Regulators Perspective**
The Conference of the Parties (COP) to the United Nations Framework Convention on Climate Change (UNFCCC) is an annual meeting of representatives from nations and states, regional organizations, and non-state actors from around the world to review implementation of the Convention and make decisions for future actions. This presentation will provide the perspective of a local regulator who attended COP 28 in 2023.
(No Motion Required)

Dr. Alberto Ayala
Executive Director,
Sacramento Metropolitan
Air Quality Management
District

OTHER MATTERS

- 3. Other Business**
Any member of the Committee, or its staff, on his or her own initiative or in response to questions posed by the public, may ask a question for clarification, may make a brief announcement or report on his or her own activities, provide a reference to staff regarding factual information, request staff to report back at a subsequent meeting concerning any matter, or may take action to direct staff to place a matter of business on a future agenda. (Gov't. Code Section 54954.2)

4. Public Comment Period

At the end of the regular meeting agenda, an opportunity is provided for the public to speak on any subject within the Committee's authority that is not on the agenda. Speakers may be limited to three (3) minutes each.

5. Next Meeting Date: TBD.

ADJOURNMENT

Americans with Disabilities Act and Language Accessibility

Disability and language-related accommodations can be requested to allow participation in the Climate Change Committee meeting. The agenda will be made available, upon request, in appropriate alternative formats to assist persons with a disability (Gov't Code Section 54954.2(a)). In addition, other documents may be requested in alternative formats and languages. Any disability or language-related accommodation must be requested as soon as practicable. Requests will be accommodated unless providing the accommodation would result in a fundamental alteration or undue burden to the South Coast AQMD. Please contact Rachel Ballon at (909) 396-2116 from 7:00 a.m. to 5:30 p.m., Tuesday through Friday, or send the request to rballon@aqmd.gov.

Document Availability

All documents (i) constituting non-exempt public records, (ii) relating to an item on an agenda for a regular meeting, and (iii) having been distributed to at least a majority of the Committee after the agenda is posted, are available by contacting Rachel Ballon at (909) 396-2116 or send the request to rballon@aqmd.gov.

INSTRUCTIONS FOR ELECTRONIC PARTICIPATION

Instructions for Participating in a Virtual Meeting as an Attendee

As an attendee, you will have the opportunity to virtually raise your hand and provide public comment.

Before joining the call, please silence your other communication devices such as your cell or desk phone. This will prevent any feedback or interruptions during the meeting.

Please note: During the meeting, all participants will be placed on Mute by the host. You will not be able to mute or unmute your lines manually.

After each agenda item, the Chair will announce public comment.

A countdown timer will be displayed on the screen for each public comment.

If interpretation is needed, more time will be allotted.

Once you raise your hand to provide public comment, your name will be added to the speaker list. Your name will be called when it is your turn to comment. The host will then unmute your line.

Directions for Video ZOOM on a DESKTOP/LAPTOP:

- If you would like to make a public comment, please click on the “Raise Hand” button on the bottom of the screen.
- This will signal to the host that you would like to provide a public comment and you will be added to the list.

Directions for Video Zoom on a SMARTPHONE:

- If you would like to make a public comment, please click on the “Raise Hand” button on the bottom of your screen.
- This will signal to the host that you would like to provide a public comment and you will be added to the list.

Directions for TELEPHONE line only:

- If you would like to make public comment, please dial *9 on your keypad to signal that you would like to comment.

Item #1

FIFTH NATIONAL CLIMATE ASSESSMENT



1

U.S. Global Change Research Program

The U.S. Global Change Research Program (USGCRP) was mandated by Congress in the Global Change Research Act of 1990 (P.L. 101-606), “to assist the Nation and the world to **understand, assess, predict and respond** to human-induced and natural process of global change”



2

Legislative Origins for the National Climate Assessment

Global Change Research Act of 1990, Section 106:

Not less frequently than every 4 years [USGCRP] shall prepare and submit to the President and Congress an assessment which:

- **Integrates, evaluates, and interprets** the findings of [USGCRP] and discusses the scientific **uncertainties** associated with such findings
- Analyzes the effects of global change on the **natural environment, agriculture, energy production and use, land and water resources, transportation, human health and welfare, human social systems, and biological diversity**
- Analyzes **current trends** in global change, both human- induced and natural, and **projects major trends** for the subsequent 25 to 100 years

Fifth National Climate Assessment | nca2023.globalchange.gov

3

National Climate Assessment Basics

- **Evaluates** a wide range of scientific and technical inputs from diverse and authoritative sources. **Applies best expert judgment** to characterize certainty.
- **Relevant for policy** and decision-making but **does not prescribe** specific policy interventions or advocate for a particular viewpoint.
- Assesses a **range of potential impacts**, helping decision-makers better identify risks that could be avoided or reduced
- Fully **compliant** with the Global Change Research Act (GCRA) and other applicable laws and policies
- Provides multiple opportunities for **public engagement**
- Employs an **extensive review** process

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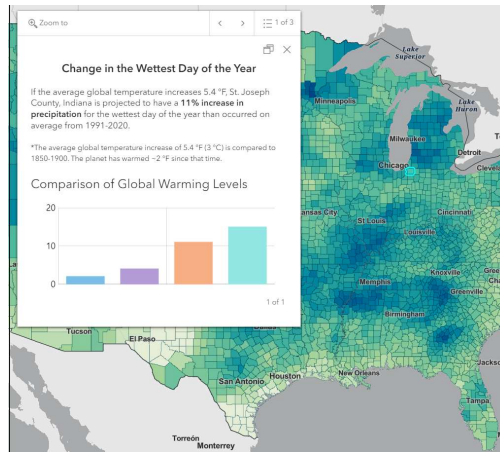
NCA Atlas (atlas.globalchange.gov)

A digital data viewer developed as an extension of the NCA5 text and figures

Atlas variables were produced with the same methodology as the downscaled climate data in NCA5

Interactive features allow users to generate and download their own regional and local maps

Users can select from a range of global warming levels or scenarios/ time periods, and impact-relevant climate variables (e.g., “days over 95°F”)



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NCA5 Production

- In consultation with the Subcommittee on Global Change Research, a **Federal Steering Committee** was responsible for the report’s development
- Written by nearly **500 authors** and **260 technical contributors**, federal and non-federal, from every state, representing a range of climate-change related expertise
- Coordination, facilitation, and logistical support, including author team points-of-contact, provided by the **USGCRP National Coordination Office**
- Editorial, production, graphic design, data analysis, documentation, and web development support provided by NOAA’s **Technical Support Unit**
- Peer reviewed by the **National Academies of Sciences, Engineering, and Medicine**
- Five rounds of technical reviews and clearance by the **14 USGCRP member agencies**
- Seven **public** calls for contributors, content (technical inputs), and review and two rounds of Tribal Consultations on restructuring of information quality guidance to authors

Fifth National Climate Assessment | nca2023.globalchange.gov

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NCA5 Table of Contents

- Overview
 - Climate Trends
 - Earth System Processes
 - Water
 - Energy
 - Land Cover and Land Use
 - Forests
 - Ecosystems and Biodiversity
 - Coastal Effects
 - Oceans and Marine Resources
 - Agriculture
 - Built Environment
 - Transportation
 - Air Quality
 - Human Health
 - Tribes and Indigenous Peoples
 - International
 - Complex Systems
 - **Economics**
 - **Social Systems and Justice**
 - Northeast
 - Southeast
 - U.S. Caribbean
 - Midwest
 - Northern Great Plains
 - Southern Great Plains
 - Northwest
 - Southwest
 - Alaska
 - Hawai'i and U.S.-Affiliated Pacific Islands
 - Adaptation
 - Mitigation
- Focus on...
- **Compound Extreme Events**
 - **Western Wildfires**
 - **COVID-19**
 - **Supply Chains**
 - **Blue Carbon**
- Appendices
- Process
 - IQA
 - Data Tools
 - **Indicators**

* New chapters or features highlighted in blue

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Christopher G. Nolte ORD/CEMM
Federal Coordinating Lead Author

Key Topics:

- Climate Change Impacts on Air Quality
- Increasing Wildfire Smoke
- Environmental Justice Considerations
- Impacts on Exposure to Pollen
- Air pollution co-benefits of GHG emission mitigation

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8

Climate Change Will Hamper Efforts to Improve US Air Quality

Climate Change Impacts on Ozone and Fine Particulate Matter (PM_{2.5}) over the United States

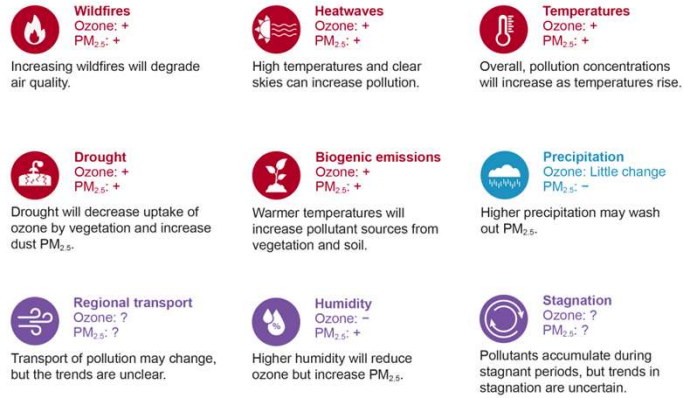
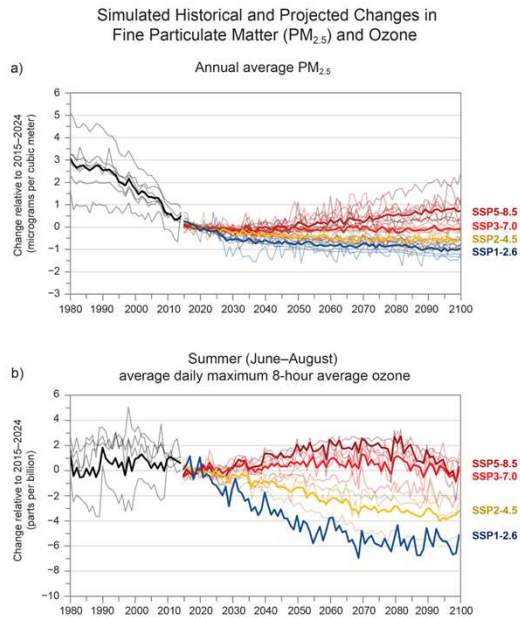


Figure 14.1. Climate change will have varying effects on ozone and fine particulate matter (PM_{2.5}) concentrations, including through impacts on weather-sensitive emissions.

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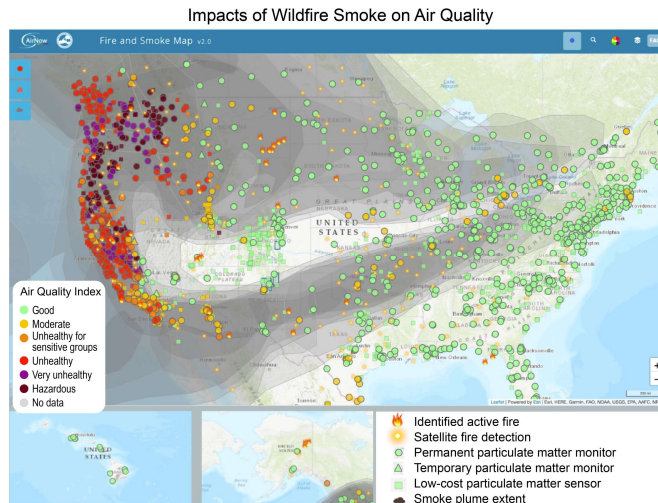
Figure 14.2. Reductions in human-caused emissions that contribute to ozone and fine particulate matter (PM_{2.5}) are expected to improve air quality in a changing climate.



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Increasing Wildfire Smoke Is Harming Human Health and Catalyzing New Protection Strategies



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Air Pollution Is Often Worse in Communities of Color and Low-Income Communities

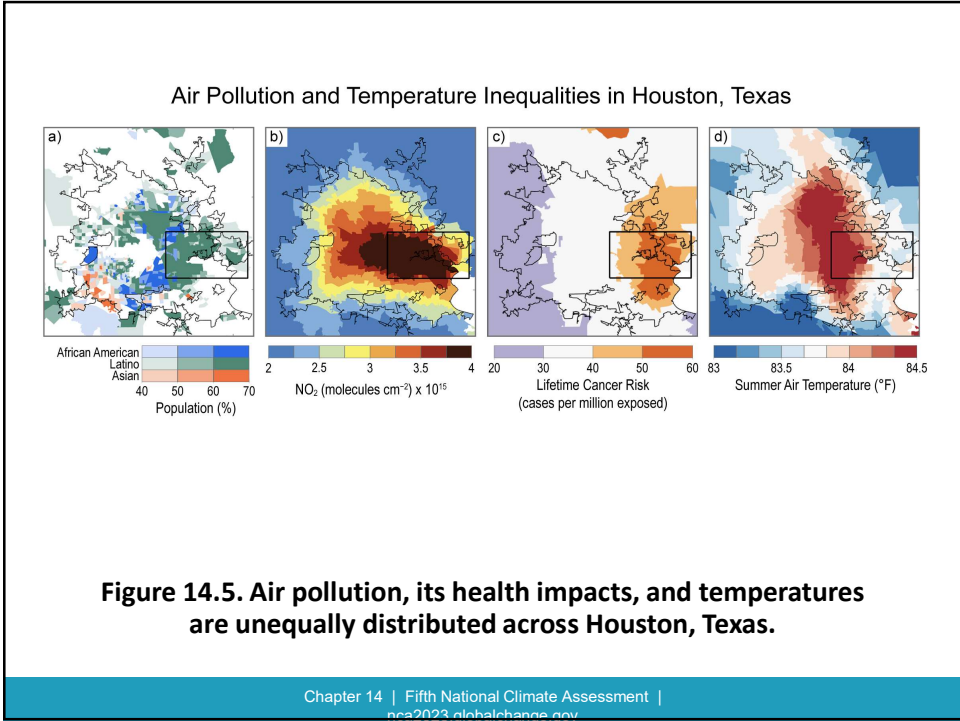
Air Pollution Exposure at Home in the Houston Ship Channel Region



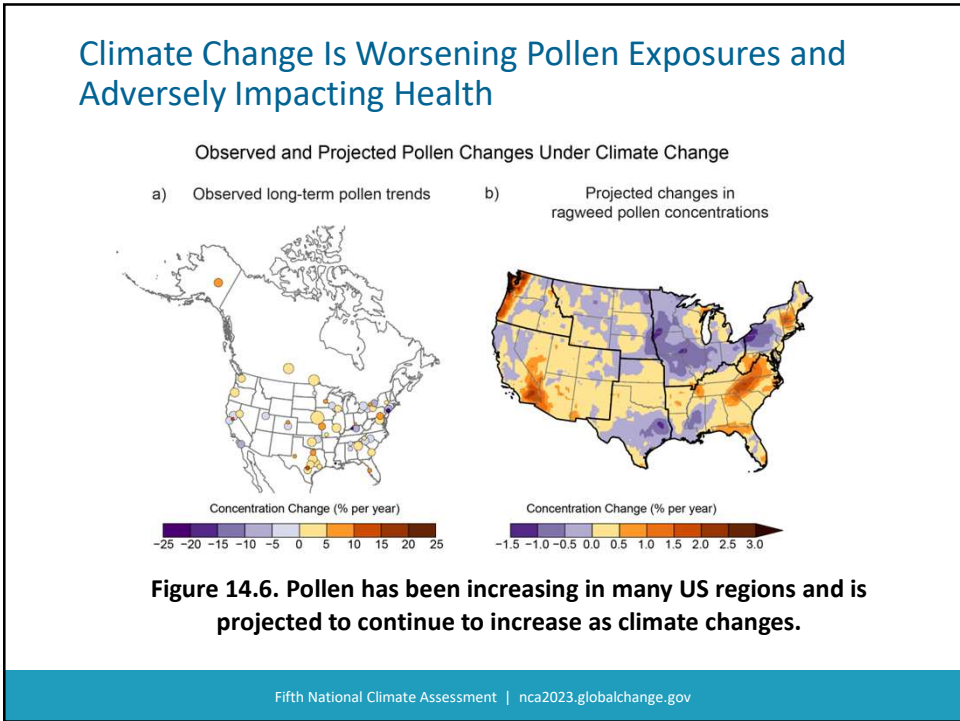
Figure 14.4. Industries expose people living near the Ship Channel—often African American, Latino, and low-income residents—to harmful air pollution.

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Policies Can Reduce Greenhouse Gas Emissions and Improve Air Quality Simultaneously

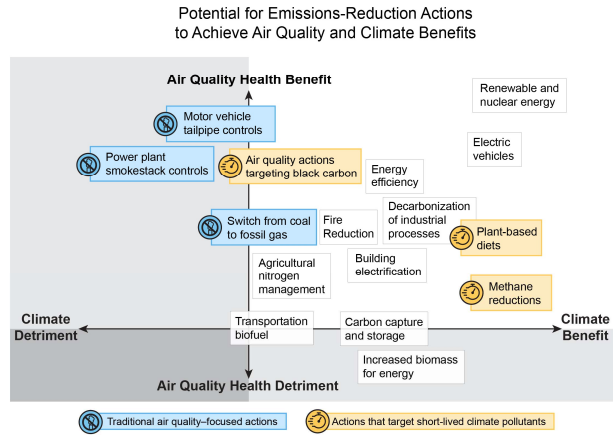


Figure 14.7. Many emissions-reduction actions can achieve multiple benefits for climate, air quality, and health.

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Air Quality and Health Benefits Estimates in the US, Relative to Costs

Ratio of monetized air quality health benefits to greenhouse gas mitigation cost, from studies in the United States

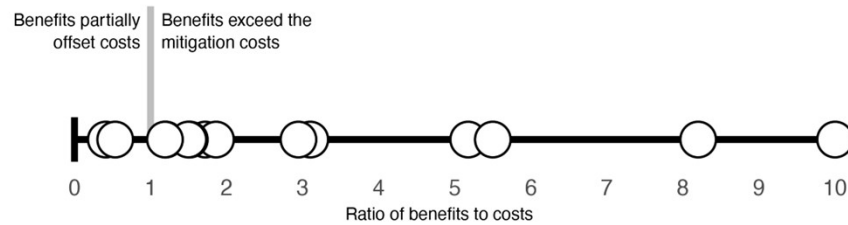


Figure 14.8. Air quality health benefits alone exceed or significantly offset the costs of greenhouse gas reductions.

Chapter 14 | Fifth National Climate Assessment | nca2023.globalchange.gov

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NCA5 Resources

NCA5 website: nca2023.globalchange.gov

- Downloadable and shareable figures
- Downloadable slides for each chapter
- 2-3 page chapter summaries
- Art x Climate gallery
- Ada Limón's poem, "Startlement"
- NCA5 Glossary

USGCRP website: globalchange.gov

- Six podcast episodes
- Audiobook recording of NCA5 Overview chapter
- List of webinar series dates, times, and links

NCA5 Atlas: atlas.globalchange.gov

- Interactive online tool that allows users to explore different scenarios and climate variables to highlight local climate projections
- Additional features to be added (e.g., sea level rise scenarios, storymaps)

Fifth National Climate Assessment | nca2023.globalchange.gov

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WEBINARS
FIFTH NATIONAL
CLIMATE ASSESSMENT
NOVEMBER 2023
-
MARCH 2024



GLOBALCHANGE.GOV/NCA5

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Thank you

Connect with us:



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Recommended report citation

USGCRP, 2023: *Fifth National Climate Assessment* [Crimmins, A.R., C.W. Avery, D.R. Easterling, K.E. Kunkel, B.C. Stewart, and T.K. Maycock (eds)]. U.S. Global Change Research Program., Washington, DC, USA. <https://doi.org/10.7930/NCA5.2023>

nca2023.globalchange.gov



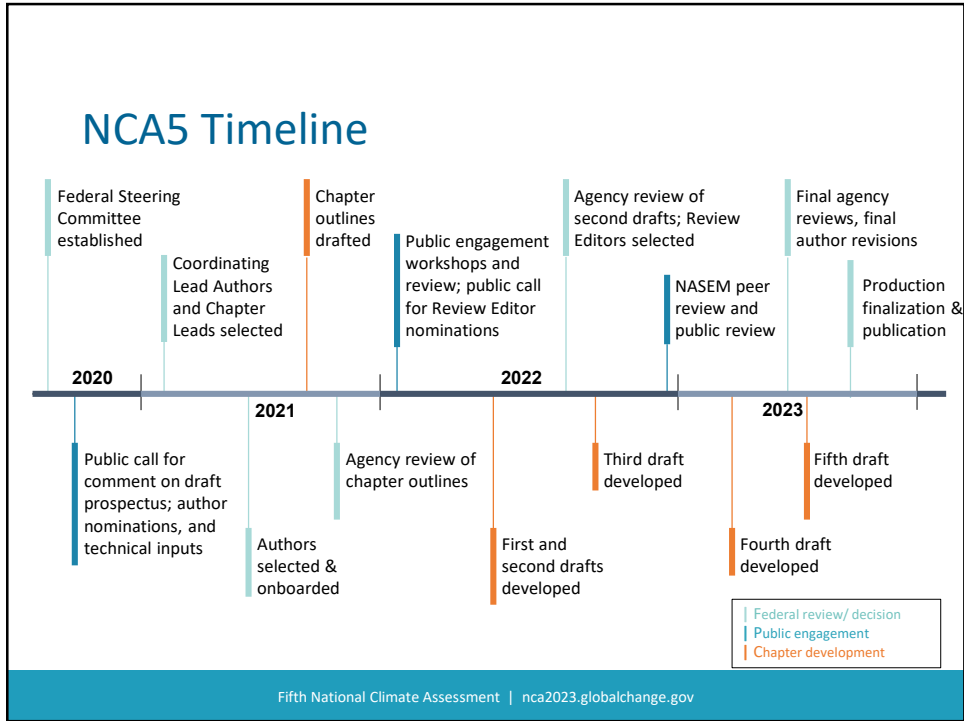
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Key Takeaways from NCA5

1. The United States is taking action on climate change
2. People in the United States are experiencing increased risks from extreme events
3. Climate change exacerbates social inequities
4. Available mitigation strategies can deliver substantial emissions reductions, but additional options are needed to reach net zero
5. Climate action is an opportunity to create a more resilient and just nation

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NCA5 Timeline



Item #2

*What happened in Dubai?
What was it like?
How the Air District fit in?*



United Nations
Climate Change

Alberto Ayala, PhD, MSE
Executive Director
Sacramento Metropolitan Air Quality Management District

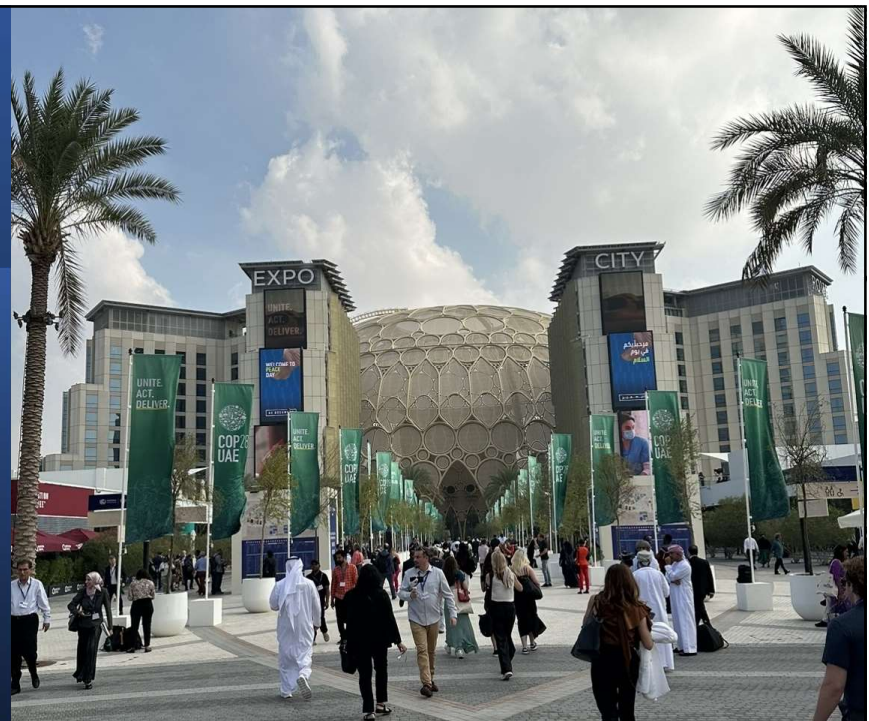
SACRAMENTO METROPOLITAN



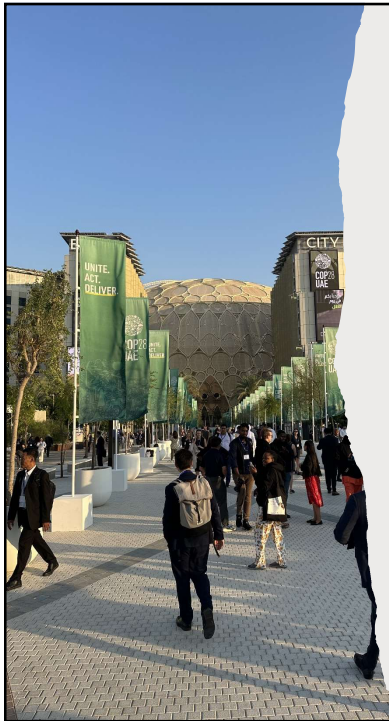
1

The venue – Expo City Dubai

An innovation-driven,
human-centric mini-city
of the future built to promote
sustainability



2

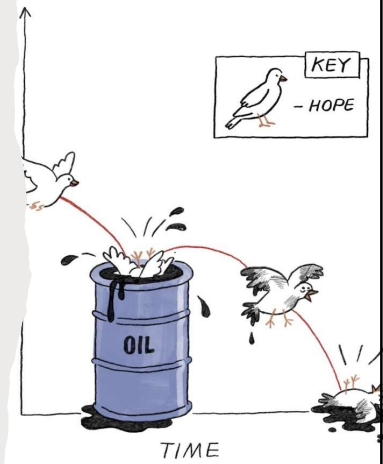


COP 28 at a glance

- Plenty of controversy and plenty of issues with strong local implications
- *COP is imperfect, but that's all we got*
- Fossil fuel "phase out versus phase down"
- "...transitioning away in a just and orderly manner..."
- Renewables X 3, efficiency X 2
- Carbon capture and direct air capture, real or smokescreen?
- Financing – rich countries to pay for emerging economies
- First global goal on adaptation?

Opinion | Hope for the future: A climate conference hosted by a petrostate

Opinion by [Edith Pritchett](#)
 December 1, 2023 at 10:17 p.m. United Arab Emirates T



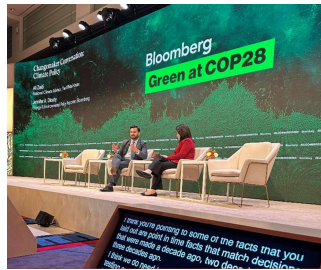
(Edith Pritchett/The Washington Post)

3

The side events



Official side event inside blue zone



Bloomberg Green at COP28



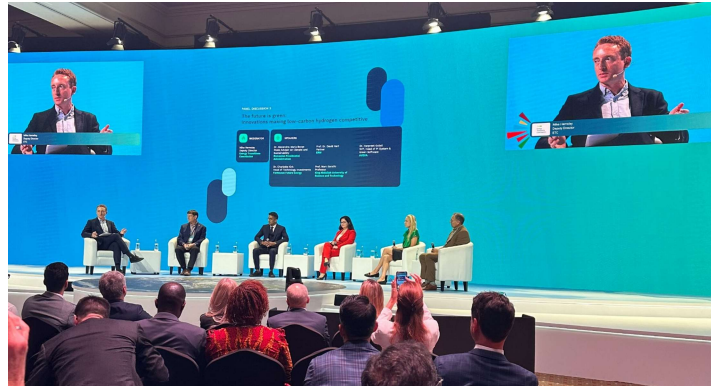
Mission Efficiency Pledge Roundtable



The Climate Center Hydrogen Discussion

4

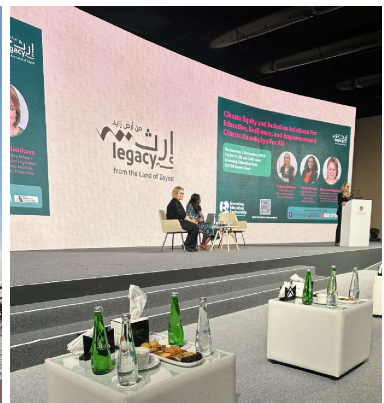
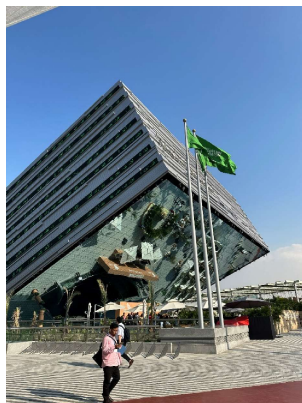
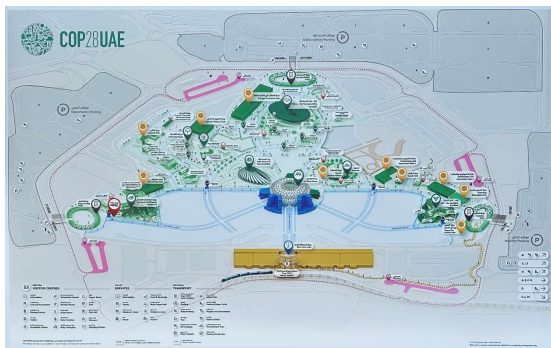
The innovation zone



5

The green zone

A platform for the general public, youth groups, civil society, indigenous groups, and private sector



6

The blue zone

Open to accredited party and observer delegates



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SACRAMENTO METROPOLITAN
AIR QUALITY
MANAGEMENT DISTRICT

Inside the COP - the blue zone

8

Role of cities, regions, and local authorities

- Role of **"non-Party stakeholders"** in addressing climate change
- Scale up their efforts and support actions to **reduce emissions**
- **Build resilience** and decrease vulnerability to the adverse effects of climate change
- Uphold and promote regional and international **cooperation**
- **California** as an example



California sub-national delegation



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TCR Pavilion



SMUD + Sac Metro AQMD

We joined forces with
TCR/CAR and SMUD

10

How the Air District Fit in?

- **WE LEARNED** - engagement, panels, connections, data, initiatives
- **WE SHARED** - local successes, priorities, policies, programs, initiatives
- **WE CONNECTED** – networking with other policy makers, funders, activists, academics, stakeholders, civil society from all over the world



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TAKEAWAYS

- COP brings together states, regional organizations, and non-state actors
- Strategic policy exposure for Board leadership (Board Vice Chair and City of Folsom Councilmember Sarah Aquino)
- Breaking the binary of global versus local action
- Contextualizing local decisions
- Opportunity to highlighting local implementation
- Showcasing regional decarbonization innovation
- Partnerships



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