CCCEC California Collaborative for Educational Excellence

Prepare for a New Normal: Climate Emergencies and Their Impact on Schools







April 26, 2024





# Welcome



#### Ingrid Roberson

Assistant Director, CCEE

- Recording & slides will be posted on
  <u>CCEE's website</u>
- Slides will be linked in the chat
- **Questions/Comments**: Please use the Q&A to elevate your questions and comments



# **Meet the Presenters**



#### Nancy Magee Superintendent of Schools, San Mateo CSS



#### Joe Anderson

Emergency Services Team Manager, California Department of Education



#### Tim Ware

Coordinator, School Safety and Security Services, San Diego COE



#### Danielle Chapman Emergency Services Coordinator,

CalOES











# **Climate Emergencies Overview**



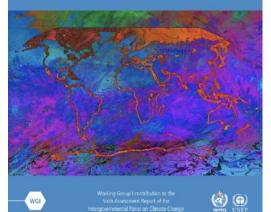
# **4UNDAUNTEDK12**



# **Understanding the Climate Crisis**

INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE

Climate Change 2021 The Physical Science Basis



Report Released August 2021 Three Key Findings:

- Global warming is unequivocally caused by humans
- The impacts of the Climate Crisis are already here, and are disproportionately impacting low-income, Black, indigenous, and communities of color
- Temperatures have already increased by 1.09°C since 1880, and will continue to the 1.5°C mark in the next twenty years due to emissions from past decades.

#### Two Clear Calls to Action:

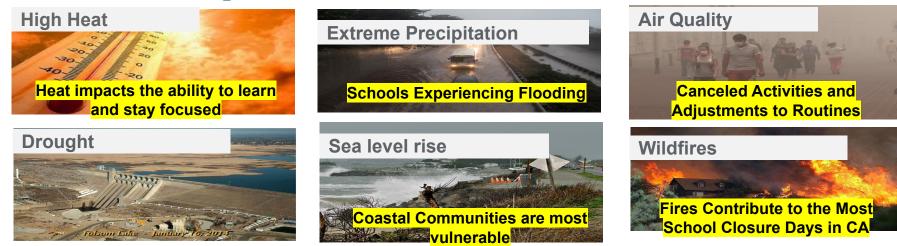
- If humans **act urgently to mitigate climate change**, temperatures could peak at that 1.5°C and then decline stabilizing the planet.
- Communities must begin to **adapt to climate impacts**

# **Climate Impacts and Schools**



MATTERS

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Climate Resilient California Schools

Stanford A STANFORD +UNDAUNTEDK12

#### Climate Impacts:

- Threaten the Physical and Mental Health of Students and Staff
- Contribute to Lost Learning Time
- Are projected to increase in frequency and intensity throughout this decade and beyond



### **Focus for Today's Open Door**



- Experiencing climate related emergencies and exploring date related to climate impacts can feel overwhelming - *You are not alone!*
- Adopting a *Climate Ready* mindset and climate resilience practices into emergency management will help your school communities adapt to the climate crisis.
- Climate Resilience for schools is possible!



# **Upcoming Features on Climate Adaptation**

#### 1) Open Doors

- Today: Prepare for a New Normal: Climate Emergencies and Their Impact on Schools
- May: Energy and Grid Resilience Adaptations
- Summer: High Heat and Schoolyard Adaptations

#### 2) Spotlights

- April: Climate Change and Emergency Management in San Mateo County
- May: Energy and Grid Resilience
- Summer: Stormwater Management

#### 3) Summary Report and Toolkit













#### California Department of Education (CDE)

Joe Anderson, Staff Services Manager II (Emergency Services) California Office of Emergency Services (CalOES)

> Danielle Chapman, Emergency Services Coordinator



# Networking, Coordinating, and Support

- The CDE works closely with other state (and federal) agencies to represent the voices of schools for emergency coordination
- The CDE hosts the COE Emergency Management Staff Network
- The CDE supports direct emergency response to Local Education Agencies (LEAs) and their schools



# Wildfires

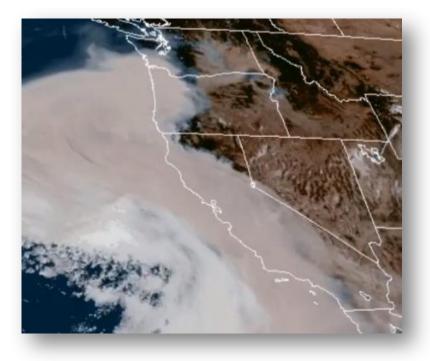
- 8 of the 10 largest wildfires in California history occurred in the last six years including the deadliest and most destructive fires.
- August Complex, 1,032,649 acres burned in August 2020 (Largest)
- Camp Fire, 18,804 structures destroyed and 85 deaths in November of 2018 (Most destructive and deadliest)



A photo from a school campus destroyed by the Camp Fire in Butte County, CA



# School Impacts



- 241 schools have been damaged or destroyed over the past six years.
  - 23 different counties
  - 17 different events
- Schools were impacted by other disasters:
  - COVID-19
  - Public Safety Power Shutoffs
  - Wildfire Smoke
  - Evacuations/Sheltering Operations
  - Mudslides
  - Earthquakes
  - Storms



#### California Emergency Management for Schools: A Guide for Districts and Sites

- Part of a core effort to strengthen relationships and incorporate the "Whole Community" planning approach between districts and sites, local emergency management, and first response agencies.
- Promotes disaster preparedness and equity within the educational sector.
- Help in creating a culture of disaster resiliency within the education sector.



#### CALIFORNIA EMERGENCY MANAGEMENT FOR SCHOOLS:

A Guide for Districts and Sites



Gavin Newsom Governor Nancy Ward, Director California Governor's Office of Emergency Services

May 2023



#### New Developments in Educational Emergency Planning and Preparedness

#### California Emergency Management for Schools: A Guide for Districts and Sites

• A collaborative effort between Cal OES, CDE, Los Angeles County USD, CSTI, LISTOS California, the Great ShakeOut, Earthquake Warning California, and the Southern California Earthquake Center





#### California Emergency Management for Schools: A Guide for Districts and Sites

Includes:

- Contact information for each Cal OES administrative region
- An Introduction to Emergency Management
- How to apply SEMS in Schools
- Phases of Emergency Management
- Introduction to the Incident Command System (ICS) and how it functions
- References, types of Disaster Declarations, and Emergency Statutes and Regulations

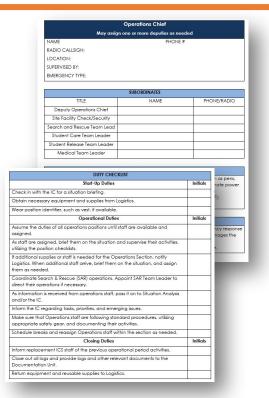




#### California Emergency Management for Schools: A Guide for Districts and Sites

Includes:

- Public School Employees as Disaster Service Workers
  and Essential Workers
- Schools as Post-Disaster Shelters
- Multiple Exercise Disaster Scenarios for school personnel Readiness and Emergency Management for Schools and Technical Assistance Center (REMS TA)
- ICS Position Checklists for each ICS position with suggested supply/equipment lists







# San Diego County Office of Education (SDCOE)

Tim Ware Coordinator for School Safety and Security



# January 2024 Flooding

- Flooding was unexpected and happened fast!
- Emergency Response was expedited because of established relationships with local partners
- Major facilities damage and disruptions to learning was minimized due to district leaders working with local, state and federal partners.
- The event was traumatic and that trauma has to be addressed in response and recovery



Workers remove wet carpet from a classroom at Bancroft Elementary in the La Mesa-Spring Valley School District on Feb. 2. (Alejandro Tamayo / The San Diego Union-Tribune)





# **Resilience Post-COVID**

- COVID taught us a lot about organizing and forming partnerships across the county and municipalities
- We have maintained these local networks and partnerships which has been critical in both the response and recovery phase, and now in our efforts to do more with climate ready preparedness





COUNTY OF SAN DIEGO OFFICE OF EMERGENCY SERVICES



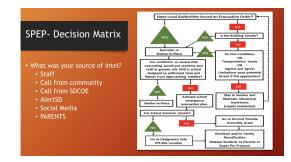


# Climate Ready Paradigm for Preparedness

- Data and Vulnerability Assessments are helping us shift our paradigms about when to evacuate and when to shelter
- Establishing and maintaining networks with local emergency partners and school districts has become a priority, and focus has expanded beyond just wildfires



#### **Multi-Jurisdictional Hazard Mitigation Plan**







# San Mateo County Office of Education (SMCOE)

Nancy Magee County Superintendent of Schools



### Nancy Magee A California Kid

#### San Diego Career - 1984 - 2010

- 2001 Santana Teacher School Shooting
- 2003 Cedar Fire
- 2006 Horse Fire

#### San Mateo Career - 2010 - Present

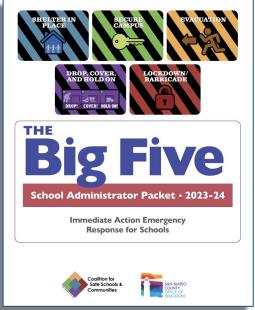
- 2012 Sandy Hook Tragedy (national)
- 2013 Formation of the SMC Coalition and Development of The Big Five (local)
- 2017 Tubbs Fire, Napa (regional)



### County Coordination is a Critical Foundation for Resilience

#### **Coalition for Safe Schools and Communities**

- Multi-agency group supported by SMCOE
- Developed <u>The Big Five</u>, immediate action responses and other protocols
- Adopted by all San Mateo County school districts and law enforcement agencies
- Allows county to pivot quickly to support schools during an emergency





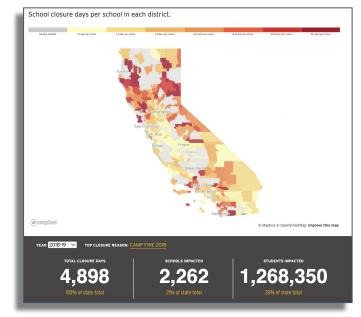
# **Prioritizing Climate Action is Necessary**

CalMatters <u>Disaster Days</u> report on instructional time lost each year due to natural disasters, unsafe conditions, and other emergencies was pivotal

SMCOE built on its existing environmental literacy work and partnerships with county agencies

Integrated climate-ready mindset into emergency preparation work of the Coalition and SMCOE

Recently hired Director, Sustainable Construction & Facilities, to help districts make their facilities climate-ready



# **Shared Protocols, Toolkits, and Resources**

SMCOE provides support to districts, coordinates with county and state (hazard mitigation plan), and posts ischool closure info when necessary

Coalition has developed <u>air quality</u>, <u>fire watch</u>, and <u>school closure decision-making</u> resources help schools navigate climate-related emergencies

SMCOE staff provide districts with assistance in integrating climate readiness into their facilities planning (via Director, Sustainable Construction & Facilities) and connect partners who provide technical assistance and funding support

#### Guidance Concerning Air Quality

Poor air quality caused by wildfire smoke and other pollutants can irritate your lungs, cause inflammation, affect your immune system, and make you more prome to lung infections. Learn how you can track air quality and prepare your family and school for days when air quality is poor.



#### Keep Track of Air Quality

The Bay Area Air Quality Management District website (BAAQMD) has local information and projections. The EPNS AirNow website provides a quick update on air quality. Here are links to pages covering South and North San Mateo County.

The County Office of Education and San Mateo County Health use these official BAA&MD and AirNow sites to track data because they rely on professional quality monitors that are regularly maintained, independently audited, and have high standards for quality assurance and quality control.

#### Adjust Activity Based on Air Quality

School Air-Quality Activity, Recommendations This document, developed with content from the California bepartment of Education and the California Department of Public Heathi (CDPH), is general toward schools. However, it also provides families with insight into how schools might address differing levels of air quality.

All Children Are Included in Sensitive Group According to the COPH, all Children are considered "sensitive individuals" and may be impacted by air quality in the Moderate (yellow – 51-100) and Unhealthy for Sensitive Groups (orange – 101-150) levels. When air quality dips to Unhealthy for Sensitive Groups levels (orange - 101-150), schools in San Mateo County should have all students exercise indoors and limit vigorous outdoor activities.

School Response

When air quality dips to Unhealthy levels (red - 151-200), schools in San Mateo County should practice the Big Five Shelter in Flace protocol, which includes keeping all activities indoors, limiting physical activity, and minimizing the opening and closing of doors. Regular classroom instruction continues during Shelter in Flace.

The Coalition for Safe Schools and Communities believes that schools are the best place for students to be when air quality is poor as they are wellsupervised, can be bey fundoors, and are able to continue to learn. However, if ali equality becomes the ability to keep outdoor air from easily entering the choid, then a school may decide to choo. Schools make this decision based on equity and access to education for all students and there own to cala facture. To learn more about the Coaliton for Safe Schools and Communities for requiring and communities of the school.

for unhealthy air quality, see pages 10-11 of its. Facilities Report. For guidance on school closures, refer to the Decision Making Guide for School Closures.

Updated November 16, 2023





# Moving Forward Climate-Ready Leadership

The Coalition is developing resources addressing additional climate impacts, including high heat and flooding

With funding from the California Legislature, SMCOE is developing free, trauma-informed climate change and environmental justice curriculum with Ten Strands for all grades

Districts are engaging: there is a waiting list for Climate-Ready Symposium on April 30 and growing requests for support



COLLECTIVE ACTION

Learn and share promising practices to improve environmental literacy, meet legislative requirements, and build sustainable operations and facilities.

Breakouts will address strategies, funding sources, and regional resources to help education leaders create climate-ready schools. Programming will include three strands: leadership, facilities and operations, and environmental literacy.

#### AUDIENCE

- Superintendents
  School Board Trustees
- School Board Trustees
  Chief Business Officials
- Food Service and Maintenance
- and Operations Leads
- Principals
  Teacher Leaders
- reaction Leader

Register: bit.ly/3TAiKsd

> SAN MATER COUNTY OFFICE OF

IN PARTNERSHIP WITH

PENINSULA

CLEAN ENERGY



8:30AM - 1:30PM

San Mateo County Office of Education 101 Twin Dolphin Drive Redwood City, CA 94065

> Questions? Contact: Julie Hilborn jhilborn@smcoe.org

ustainable and Climate-Ready Schools Challenge awards will be presented at the event.

### **Discussion: Question and Answer**



# **Question and Answer**

- **Questions/Comments**: Please use the Q&A or "Raise Hand" features
- **Questions:** Specify if your question is for one of the guest speaker or all of the guest speakers





# **Closing and Follow-Up**



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# **Thank You**

### Contact

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#### **Stephanie Seidmon**

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#### Feedback Survey:

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