

CALIFORNIA
EARTHQUAKE EARLY WARNING
ADVISORY BOARD

May 6, 2026
MEETING NOTICE



***Cal* OES**

GOVERNOR'S OFFICE
OF EMERGENCY SERVICES



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**CALIFORNIA EARTHQUAKE EARLY WARNING
ADVISORY BOARD MEETING
NOTICE AND AGENDA**

May 6, 2026
1:00 PM – 4:00 PM

In-Person Location:

California Governor's Office of Emergency Services
3650 Schriever Ave, Building A, MPR 1 & MPR 2
Mather, CA 95655

Zoom Video Conference Information:

Participant Call-In Number: 16699006833
Meeting ID: 853 7955 8159
Passcode: 14495370

Or please click the link below to join the webinar:

<https://us02web.zoom.us/j/85379558159?pwd=K5QyLgFVLtnS3AtJaP0goXDW6UB8Zu.1>

Passcode: M*v9n%Λ+

Or one tap mobile:

+16699006833,,85379558159#,,,,*14495370# US (San Jose)
+16694449171,,85379558159#,,,,*14495370# US

For information on Earthquake Early Warning (EEW) warning and alerts,
earthquake preparedness, and more:

<https://earthquake.ca.gov>



CALIFORNIA EARTHQUAKE EARLY WARNING ADVISORY BOARD MEETING

May 6, 2026
1:00 PM – 4:00 PM

MEETING AGENDA

There will be an opportunity for public comment following each agenda item.

I. **CALL TO ORDER / INTRODUCTIONS**

Following roll call, the Director of Cal OES to provide opening remarks.

II. **REVIEW AND MOTION TO APPROVE MEETING MINUTES**

Board members may vote to approve the previous Advisory Board Meeting Minutes from June 25, 2025.

III. **RECENT EVENTS**

Earthquake Early Warning (EEW) Program Manager to provide information on recent real-world tests of the California EEW System.

IV. **EDUCATION AND OUTREACH OVERVIEW**

Cal OES to present on community outreach opportunities and events since the last EEW AB meeting.

V. **RESEARCH AND DEVELOPMENT/IMPLEMENTATION**

Cal OES to present new technologies and projects supporting the EEW System, including a panel discussion with EEW System Operations partners, including Caltech, UC Berkeley, and California Geological Survey.

VI. **SYSTEM OPERATIONS**

Cal OES to update the Advisory Board on the CEEW system build out.

VII. **FINANCE**

Cal OES to review the 2025 Spending Plan.



VIII. CLOSING STATEMENTS AND PUBLIC COMMENT

Cal OES Director to provide closing comments, followed by final opportunity for public comment.

IX. ADJOURNMENT



Meetings of the California Earthquake Early Warning Advisory Board are open to the public except when specifically noticed otherwise in accordance with the Bagley-Keene Open Meeting Act. The Board may act on any item listed on the agenda. Agenda items may be taken out of order to facilitate the effective transaction of business.

Statements from the Public:

Members of the public will be given an opportunity to comment before action is taken on any agenda item and during the scheduled Public Comment section of the agenda. Comments should be addressed to the Board and should be limited to 3 minutes or less. Although not required, speakers are requested to identify themselves by stating their name and city of residence for the official record. All remarks shall be addressed to the Board as a body. Speakers should be brief and are to limit their comments to the subject of discussion.

Access to Meeting and/or For More Information:

Individuals who require special accommodations, or to receive meeting materials, contact the individual below at least seven (7) days prior to the scheduled meeting date:

Raul Garcia, Earthquake Early Warning
3650 Schriever Avenue, Mather, CA 95655
916-364-4662 / raul.garcia@caloes.ca.gov

TDD users may contact the California Relay Service TDD line at 1-800-735-2929 or Voice Line at 1-800-735-2922.

This meeting notice is made available online, please visit the Cal OES California Earthquake Early Warning Program, Advisory Board [webpage](#).



CALIFORNIA EARTHQUAKE EARLY WARNING **ADVISORY BOARD**

PREVIOUS MEETING MINUTES
June 25, 2025





California Earthquake Early Warning Advisory Board

California Governor's Office of Emergency Services
3650 Schriever Avenue, Mather, 95655 California
and via Zoom

June 25, 2025

Meeting Minutes

Members Present:

In-Person Attendees

- Nancy Ward, Director, California Governor's Office of Emergency Services (Cal OES)
- Christina Curry, Chief Deputy Director, California Governor's Office of Emergency Services
- Bryan Cash, Assistant Secretary, Designee of the Secretary of Natural Resources Agency
- Julie Souliere, Assistant Secretary, Designee of the Secretary of California Health and Human Services
- Giles Giovinazzi, Senior Advisor, Designee of the Secretary of the California State Transportation Agency
- Claire Cullis, Deputy Secretary, Designee of the Secretary of the California Business, Consumer Services, and Housing Agency
- David Briggs, Director of Operations and Maintenance for East Bay Municipal Utilities District, Appointee of the Governor Representing the Utilities Industry
- Jenny Novak, Director, Systemwide Emergency Management & Continuity, Designee of Chancellor of the California State University

I. Call to Order / Introductions

- The meeting was called to order by Earthquake Early Warning (EEW) Advisory Board Executive Officer Derek Lambeth.
- Roll call was taken, including an introduction of the new Business, Consumer Services, and Housing designee Claire Cullis, and a quorum was achieved.
- Cal OES Director Nancy Ward opened the meeting by welcoming board

members and discussing the challenges faced throughout the state since the last board meeting, including the firestorms experienced in Southern California earlier this year and the issuance of California's first tsunami warning. She continued by highlighting the EEW Program's achievement of expanding earthquake notifications with the MyShake app reaching 4 million downloads. Director Ward also noted the current uncertainty of federal funding to the United States Geological Survey (USGS), though no cuts have yet been made to ShakeAlert. She concluded with a request that this life-saving technology continue to be funded appropriately.

II. Review and Approve Meeting Minutes from September 11, 2024.

- The motion to approve was led by Board Member Cash. The motion was seconded by Board Member Briggs. Motion passed unanimously.

III. Recent Events

- EEW System Operations Manager, Phillip Labra, reviewed the details and statistics of the three (3) most recent significant earthquakes; Offshore Cape Mendocino (December 5, 2024), Yerington, Nevada (December 9, 2024), and Julian, California (April 14, 2025).
- Director Ward underscored the benefits of EEW and highlighted the steady results of MyShake app downloads several days after an event.
- Board Member Cash stated the Yerington earthquake was felt in the Natural Resources Agency building. This real-life event helped increase downloads among colleagues as it showed the MyShake app works, and it is possible to receive warnings with enough time to act before shaking starts.
- Board Member Briggs described his experience receiving alerts during recent earthquakes from his office in downtown Oakland and noted the potential for EEW to mitigate structural damage of new buildings. He also expressed concern about the tsunami warning and the chaos that ensued due to the lack of understanding and clear direction. Deputy Director Lori Nezhura stated the Cal OES Earthquake, Tsunami, and Volcano program staff can provide information on the tsunami alert system.
- Board Member Novak discussed her experience receiving alerts and emphasized the value of the system in emergency management and continuity of operations.

IV. Research and Development/Implementation

- Dr. Sharyl Rabinovici presented on the California Earthquake Early Warning System (CEEWS) Benefit-Cost Assessment (BCA), which included an overview of the assessment methodology, results of studies examining the effectiveness of EEW in other countries, a qualitative evaluation of interviews with License-to-Operate (LTO) clients, and a quantitative analysis of the State's net benefits from EEW. Dr. Rabinovici concluded by emphasizing that broader adoption of effective EEW ecosystem features can deliver additional benefits.
- Adam Cohen with Resilient and Innovative Mobility Initiative (RIMI), UC Berkeley, discussed a feasibility study on implementing EEW in airports, highlighting the potential mitigation of structural damage. He recommended Cal OES engage partners at the national and local level, specifically the Federal Aviation Administration (FAA) due to the need to comply with FAA guidelines and emphasized the need to develop model standard procedures for warning responses.
- Research and Development Lead Coordinator Brandon Howland presented updates on the datacasting project that disseminates earthquake alerts automatically via the California Public Television (CPT) network.
- Board Member Briggs appreciated Dr. Rabinovici's framing of EEW as a high-risk environment and high-yield benefits issue and questioned if the program had considered the refinery industry or Diablo Canyon Power Plant, as they pose significant and unique dangers. Deputy Director Nezhura noted that Pacific Gas & Electric (PG&E) must adhere to certain seismic assessments, and they are considering ways to mitigate potential impacts to Diablo Canyon Power Plant. Dr. Rabinovici remarked that the 2016 BCA included interviews with oil refineries and noted the industry is subject to heavy regulations and any addition of EEW would need to go through a rigorous regulatory structure. She recommended personal device delivery for EEW to begin, as such device alerts can function to notify individuals of shaking in a cost-effective way that does not require implementation within the infrastructure.
- Board Member Novak inquired about untapped potential for EEW implementation in schools. Dr. Rabinovici agreed that EEW and preparedness have ancillary benefits when implemented in schools, and Public Address (PA) implementation, audible alerts, proactive public outreach, and integration of earthquake preparedness in training of

personnel are examples of how school implementation strategies can be achieved. As teachers and older students have smart phones, PA systems would be better for younger/elementary level students. However, as many schools lack PA systems, this is not the best way of integrating EEW. Schools need to consider what already exists in the classroom that can be used as a tool for implementation and develop strategies based on current infrastructure.

- Board Member Novak inquired about datacasting infrastructure, asking why the project targeted Emergency Operation Centers (EOCs). Research and Development Lead Howland stated EOCs were chosen to ensure they have the necessary technology for emergency settings (i.e., aftershocks) and because they are a critical part of disaster response.
- Board Member Souliere inquired about the need for EEW implementation in hospitals and facilities that serve vulnerable populations. Dr. Rabinovici highlighted how messaging protocols, and regulatory standards can pose challenges for EEW implementation in hospitals and noted that personal device alerts can alert hospital staff in facilitates without EEW integrated into buildings. Adam Cohen stated there is a similar challenge related to compliance with regulatory standards of EEW implementation in airports.

V. System Operations

- Natalia Ruppert from the USGS ShakeAlert Program provided updates about the efforts to expand the LtO pool, the federal hiring freeze that has caused extended vacancies within the program, and the adoption of new security protocols and enhanced monitoring of the ShakeAlert servers following the March 13, 2025, system outage. Deputy Director Nezhura underscored how the temporary outage led to the integration of more cybersecurity protections and served as an opportunity to improve the EEW system. She thanked USGS for communicating on a continual basis during and after the outage and emphasized how the system is now stronger with the inclusion of new cybersecurity standards.
- Earthquake Early Warning System Operations Manager Labra provided updates on the EEW system build out. He also reiterated the achievement of reaching 4 million downloads of the MyShake app and stated the app is now available on Chromebook and Mac operating systems. Deputy Director Nezhura thanked collaborators at UC Berkeley for developing and implementing improvements to the MyShake app.
- Board Member Briggs asked if it counts as two (2) downloads if the

MyShake app is redownloaded. Seismic Hazards Branch Chief Jose Lara stated downloads are typically attached to an Apple account rather than a device, and redownloading the app should not count as multiple downloads.

VI. Education and Outreach

- Research and Development Lead Coordinator Howland presented on the Earthquake Readiness Guide.
- Education and Outreach Lead Coordinator Jon Gudel presented on the EEW Program's outreach initiatives, including an influencer campaign targeting diverse audiences online, and a partnership with the Sacramento History Museum that offered the opportunity for Cal OES to curate a Preparedness Room featuring earthquake preparedness and seismic hazards educational materials.
- Earthquake Program Specialist Kristopher White presented on the 2024 Great ShakeOut Tour.
- Board Member Briggs asked if the California State Fair had been considered as an opportunity for education and outreach. Executive Officer Lambeth stated the ShakeOut tour is in October, so the California State Fair had not been considered, though the program does look for other one-off opportunities to do outreach. Deputy Director Nezhura explained outreach had been done at the California State Fair in the past and could be considered in the future.

VII. Closing Comments / Public Comment

- Board Member Briggs suggested discussing case studies of water utilities, wastewater utilities, and telecommunications.
- Board Member Novak recommended that Cal OES partner with the California State University system to identify schools to include in the Great ShakeOut Tour. She also highlighted the value of public outreach and the compelling nature of the Quake Heroes documentary. It would be beneficial for the Program to be ready to capture stories and experiences audiences can relate to. Unique opportunities, such as the influencer campaign, are a great way to connect with people.
- Board Member Cullis inquired about the expansion of the influencer campaign and noted the need to ensure that outreach materials are available in multiple languages. Executive Officer Lambeth stated the first phase of the project was successful and the Program is looking to expand



the project. Board Member Briggs noted the effectiveness of engaging public education campaigns via media platforms that appeal to various audiences, and provided a suggestion for future projects (i.e., music videos with local artists).

- Deputy Director Nezhura thanked presenters and board members for attending and is happy board members expressed interest in continuing discussions.
- A member of the public asked if there are any state grant funding sources available to 55+ Homeowner Association communities for disaster mitigation projects. Seismic Hazards Branch Manager Lara stated the Program can provide a connection with a grant expert who would know more about grant opportunities and eligibility.

VIII. Adjournment

- The meeting was adjourned by Executive Officer Lambeth.