Welcome!

Earthquake Country Alliance

ECA Southern California
Winter 2022 Workshop

Earthquake Country Alliance

• 4000+ Public-Private-Grassroots leaders
• Statewide committees develop resources and deliver programs
• Regional Alliances organize meetings and outreach activities
• California’s Office of Emergency Services provides FEMA funding for ECA activities
• USC’s Southern California Earthquake Center (SCEC.org) administers ECA (Exec. Director: Mark Benthien)

Join: EarthquakeCountry.org/join
ECA Statewide Activities

Develop Messaging and Resources:
EarthquakeCountry.org
EarthquakeCountry.org/resources
Terremotos.org

Support Tsunami Preparedness Week:
TsunamiZone.org/california

Created and Coordinate
The Great California ShakeOut:
ShakeOut.org/california

ECA Sector-Based Outreach Committees

- Public Sector
- Businesses
- Accessibility
- Non-Profit & Faith-Based Organizations

- Healthcare
- Higher Education
- PreK-12 Education
- EPIcenters (Museums, parks, libraries, etc.)

Each meets bimonthly; Join us!
EarthquakeCountry.org/committees
ECA Outreach Bureaus (Regional & Statewide)

- **Events Bureau**
  - Speakers for online/in-person events
  - Booths and tables at events
  - Request presenter or information table: [EarthquakeCountry.org/events](http://EarthquakeCountry.org/events)

- **Participation Bureau**
  - ShakeOut and Tsunami Week recruitment and communications
  - County/City Partners for local engagement

- **Media Bureau**
  - Statewide and local coordination
  - Media event planning
  - Year-round messaging / news releases
  - Post-earthquake shared messaging

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**Updated Materials in 15 Languages**

[EarthquakeCountry.org/languages](http://EarthquakeCountry.org/languages)
Co-Chairs, ECA SoCal Coordinating Committee

Margaret Vinci
Caltech

Heidi Rosofsky
Global Vision Consortium

Alan Hanson
Simpson Strong-Tie, retired

ECA SoCal Coordinating Committee

Coordinating Committee Chairs: 
Heidi Rosofsky (Global Vision)
Margaret Vinci (Caltech)
Alan Hanson (Simpson Strong-Tie)

Communications Coordinator: 
Jeffrey Snoddy (City of Torrance)

Regional Workshops Coordinator: 
Open position

Membership Coordinator: 
Open position

Media Bureau Coordinators: 
Marilyn Jimenez (LA Red Cross)
Jessica Kellogg (City of LA EMD)

Participation Bureau Coordinator: 
Pei-Lun Lee (Orange County Emergency Management)

Events Bureau Coordinators: 
John Hammett & Lance Webster (Volunteers)

ShakeOut/Tsunami Events Coordinator: 
Open position

Sector-Based Committee Coordinator: 
Pauline Louie (US Housing and Urban Development)

SCEC Regional Liaison for ECA SoCal: 
Gabriela Noriega (USC/SCEC) socal@earthquakecountry.org
ECA SoCal 2022 Calendar

March 4-6  Abilities Expo, LA Convention Center
Volunteer with us! info@earthquakecountry.org

March 21-25  California Tsunami Preparedness Week
Register your events @ TsunamiZone.org/california

May 2-5  California Emergency Services Association (San Diego)
cesa.net/event/2022conference

May 11  ECA SoCal Spring 2022 Workshop
Presentations from our 2022 Mini Award Recipients

August 10  ECA SoCal Summer 2022 Workshop

October 20  Great California ShakeOut
Register now at ShakeOut.org/california

November 9  ECA SoCal Fall 2022 Workshop

Today’s Agenda

Welcome and ECA SoCal Introduction

Community Outreach Strategies of the CVDPN
Carla Sullivan-Dilley (President, Coachella Valley Disaster Preparedness Network)

Quakes Break: Southern California Seismic Activity since last workshop
Margaret Vinci (Manager, Office of Earthquake Programs, Caltech Seismological Laboratory)

California’s Tsunami Hazard – Tonga Volcanic Eruption Impacts
Yvette LaDuke (California Office of Emergency Services)

Mitigation Moment: Cal OES Hazard Mitigation Assistance
Anthony Roggio (California Office of Emergency Services)

Facilitated Discussion

Open Discussion and Networking  (Optional; 11:30am - 12:00pm)
Community Outreach Strategies of the CVDPN

Carla Sullivan-Dilley
President, Coachella Valley Disaster Preparedness Network
Welcome to the Coachella Valley!

Service Area
• Cathedral City
• City of Coachella
• Desert Hot Springs:
  • Indian Wells
  • Indio
  • La Quinta
  • Palm Desert
  • Palm Springs
  • Rancho Mirage
• And other unincorporated areas

Why?

#1 Threat - Earthquakes

High probability
• It has happened before
  • San Jacinto (Coyote Creek Segment)
    6.5 to 7.5 RSM (1968)
  • San Andreas (Coachella Segment)
    7.5 to 8.5 RSM (1857)
  • Elsinore (Northern San Diego Segment)
    6.5 to 7.5 RSM (1910)

High Consequence
• I-10 Corridor
• Delayed emergency response
• Limited access to resources
Birth and evolution of CVDPN

Formerly the Coachella Valley Emergency Readiness Group (CVERG), October 8, 2014

Budget cuts forced CVERG to pursue non-profit status

Merged with the Desert Standardized Emergency Readiness Team (DSERT) on October 8, 2014

On August 9, 2017, the IRS granted our tax exemption 501(c)3 nonprofit status.

Changed the name of CVERG, to the Coachella Valley Disaster Preparedness Network (CVDPN)

The Mission of CVDPN is to prepare citizens of the Coachella Valley for catastrophic events by providing training, education, and networking opportunities.

CVDPN envisions all communities in the Coachella Valley becoming cohesive, self-sufficient entities that are prepared to meet the challenges of major disasters, both natural and human-caused.

* Note: We are educators, and not first responders
Outreach - Education - Collaboration

Activities engaged in specifically, but not limited to, during the COVID-19 pandemic

The pandemic did not stop us! Let’s look

Fire Services Training Institute (FSTI) Grant

• 11 Communities have successfully applied and participated
• Bringing approximately $180,000 of equipment into the Coachella Valley
• On February 14, 2022, Sun City Palm Desert trailer arrived with over $101,102 in grant items received
To learn more about Listos, visit their website at: https://www.listoscalifornia.org/

CVDPN was awarded 3 grants from Listos, and educated 28,000 individuals in the Coachella Valley from Jan. 1, 2020, through April 30, 2021.

Looking forward to the June 2022 Listos grant!

In 2021, CVDPN educated and distributed over 5,000 Rocket Rules to people with disabilities, tribal communities and other underserved populations in the Coachella Valley and Blythe!

Since then, CVDPN is working with the Desert Recreation District to share Rocket’s Preparedness messages.

To learn more, please visit: https://rocketrules.org/
Thanks to Southern California Edison

CVDPN Announces The Return of the: Disaster Planning Academy for HOA Communities

- CVDPN provides "on-site" assistance and "customized presentations" for individual HOA communities.
- This service is provided by Tony Ferrara, our CVDPN Contractor.
- While CVDPN provides this service free of charge, we do ask for a donation to offset costs.
- Please contact Carla at carlacvdpn@gmail.com for more information.

Planning Academy Spotlight

Since the Planning Academy's have been so popular, we are now working with Riverside Office on Aging and providing training for 25 more HOAs in February.
Partnership is Key!

www.EarthquakeCountry.org

CERT TRAINING IS COMING TO CATHEDRAL CITY!

This is a 20-hour classroom and practical exercise course designed to educate and train community volunteer responders!

Next Class Sponsored By: Cathedral City Fire Department

Class Schedule:

- Thursday, March 17, 6PM to 9PM
- Friday, March 18, 6PM to 9PM
- Wednesday, March 23, 6PM to 9PM
- Thursday, March 24, 6PM to 9PM
- Saturday, March 26, 8AM to 4PM

This class is offered “free of charge” for Cathedral City residents. Non-resident fee is $50 per person.

SEATING IS LIMITED SO DON’T DELAY!

Please visit our website at: https://www cvdpn org /events for more information on how to register for this training.
On-line "Hybrid" CERT Course

- This is an "On-line" basic CERT course offered by Cal OES (Governor's Office of Emergency Services).
- This is computerized classroom instruction only. An abbreviated "hands-on" practical application course will be offered at the completion of this class.

Please visit our website at https://www cvdpn org/resource-library for more information.

Video Library: Disaster Response Skills Series

- Light Rescue / Victim Extraction / Cribbing Techniques.
- Injured Victim Carry / Transport Techniques
- How to do "Hands Only" CPR
- Proper use of handheld general-purpose fire extinguisher

- Please visit this link on our website to view the videos:
  https://www cvdpn org/resource-library
YOU can make a difference!

• Easy to follow interactive course developed by the American College of Surgeons!

• Bleeding emergencies from accidents or disasters can happen at any time. Become a Stop the Bleed Responder and save lives!

• Take the Stop the Bleed Interactive On-line Course, please visit our online resource library at: https://www.cvdpn.org/resource-library

   for the link to this training and other information.

Grant Sponsors

Thank you for supporting CVDPN!
Community Partners

Officers:
• Carla Sullivan-Dilley, President
• Sharon Huddleston, Vice President
• Teresa Nall, Treasurer
• Nila Hagood, Secretary

Board Members at Large:
• Michael Brown
• Tom Niehaus
• Marcia Stein
• Ana Velasquez
• Tamica Foots-Rachal
• Kristine Beckman-Hennigan

Advisors to the Board:
• Tony Ferrara (Webmaster)
• Mary Lou Suter
• Larry Jones (FEMA/CERT/ARC)
• Dr. Kirk Dandridge (Medical)
• Edward Thomas, Esq.

Constant Contact Administrator:
• Ron Nall

Volunteer Coordinator
• Jane Treacy

Thank you to our Board Members for their service!

• The IECF is an all-volunteer board with no paid staff
• Board members volunteered 4885 hours in 2021.
ARE YOU READY TO HELP OTHERS

Be better prepared for major disasters
CVDPN is seeking additional Board and Committee Members

If you have a strong interest and background in disaster preparedness, please:
1. Visit our website at: https://www.cvdpn.org/board-of-directors to download an application, and
2. Email it to carlacvdpn@gmail.com

Contact Us

Follow CVDPN on Facebook
www.facebook.com/CVDPN.org

Call us for more information at (951)218-0188

For any inquiries, contact Carla Sullivan-Dilley
carlacvdpn@gmail.com
Q&A

Please ask questions in the chat tool.

The recording of today’s webinar will be available next week at: 
EarthquakeCountry.org/socal

To be notified of future events and recordings, join ECA (free!):
EarthquakeCountry.org/join

Please take our survey: 
SurveyMonkey.com/r/YWMJWKJ

Questions? 
info@earthquakecountry.org
Quakes Break: SoCal Seismic Activity since last ECA Workshop

Margaret Vinci
Manager, Office of Earthquake Programs, Caltech Seismological Laboratory

Quakes Break
Southern California Seismic Activity
November – February 2022

Margaret Vinci
Caltech Seismological Laboratory
Office of Earthquake Programs
Southern California experiences an earthquake every 3 minutes

4,242 earthquakes this quarter (185 were quarry blasts)
- 270 M2.0+                  1 – M4.0+
- 30 M3.0+                  0 – M5.0+

Events M3.5 and higher: A refreshingly quiet quarter

11/19/21 - M3.9 Estacion, Mexico
12/08/21 – M3.6 near Lytle Creek
12/08/21 – M3.5 near Carpinteria (thrust event offshore)
12/13/21 - M3.9 nead Estacion, Mexico
01/02/22 – M3.9 near Buttonwillow
01/07/22 – M3.6 near Fillmore
01/12/22 – M3.9 near Anza
01/27/22 - M3.5 near Grapevine
01/30/22 – M4.0 near Palomar Observatory
02/06/22 – M3.6 near Trabuco Canyon
02/10/22 – M3.9 near Santa Paula

Activity

Activity was normal with largest events being minor scattered across the reporting region.

Events occurred in the Ridgecrest aftershock zone, San Jacinto Fault zone (Lytle Creek), Elsinore Fault Zone and offshore Carpenteria (Ventura County).

The SCSN has so far seen 68,800 aftershocks since July 2019 from the Ridgecrest sequence
Earthquake Resources After an Earthquake

So Cal Seismic Network:  www.scsn.org

So California Earthquake Data Center:  https://scedc.caltech.edu

Did You Feel It:  earthquake.usgs.gov/data/dyfi/

ShakeAlert Apps:  MyShake, QuakeAlertUSA, Sdemergency, Google Android and WEA

Q&A

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Please take our survey: SurveyMonkey.com/r/YWMJWKJ  Questions? info@earthquakecountry.org
California’s Tsunami Program
Tsunami Preparedness

Yvette LaDuke
Earthquake, Tsunami, and Volcano Programs Manager
California Office of Emergency Services
Recent Tsunamis in California

Six Tsunamis in Twelve Years

- Samoa - Sept 2009
- Chile - Feb 2010
- Japan - March 2011
- BC Canada - Oct 2012
- Chile - Sept 2015
- Alaska - Jan 2018

Recent Tsunamis in California

 Hunga Tong-Hung Ha’apai Incident

January 15, 2022

- 2030 (Jan. 14) – Underwater explosive volcanic eruption
- 0326 – Tsunami Information Statement #1 – National Tsunami Warning Center (NTWC) analyzing event to determine level of danger
- 0456 – NTWC issues Tsunami Advisory for California coast
- 0700-0730 – Initial Tsunami Surges arrive in California
- 0029 (Jan. 16) – Tsunami Information Statement Issued: Tsunami Advisory cancelled statewide

Hunga Tong-Hung Ha’apai Incident

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Tsunami Advisory

Earthquake:
- Magnitude: 7.3
- Depth: 20 km
- Latitude: 20.1° S
- Longitude: 176.4° W

Tsunami Information Statement Issued: Tsunami Advisory cancelled statewide

Estimated tsunami travel time from Hunga Tonga-Hunga Ha’apai volcano each white contour line is one hour

Tsunami Advisory Cancelled Statewide

Estimated tsunami travel time from Hunga Tonga-Hunga Ha’apai volcano each white contour line is one hour
Hunga Tong-Hung Ha’apai Incident - Photos

Photos: Aftermath of tsunami in Bay Area. West...
How Do I Know if a Tsunami is Coming?

If one or more Natural Warning Sign Occurs – Go Immediately to High Ground or Inland and Stay There

You May Only Have Minutes before a Tsunami Arrives.
Earthquakes Near the Ocean

DROP! COVER! HOLD ON!
Protect Yourself During Earthquakes

GO TO HIGH GROUND OR INLAND!
The Shaking Is Your Tsunami Warning

STAY THERE!
Tsunami Waves May Arrive for Hours

Tsunami Alert Levels

<table>
<thead>
<tr>
<th>Alert level</th>
<th>Action</th>
<th>Hazard</th>
<th>Tsunami Waves (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WARNING</td>
<td>Get to high ground or inland IMMEDIATELY!</td>
<td>DANGER! A TSUNAMI IS IMMINENT. Flooding &amp;</td>
<td>3+ feet or 1+ meter</td>
</tr>
<tr>
<td></td>
<td>Follow evacuation signage</td>
<td>dangerous currents</td>
<td></td>
</tr>
<tr>
<td>ADVISORY</td>
<td>Stay out of the water and away from the shore</td>
<td>STRONG CURRENTS &amp; DANGEROUS WAVES! In or near coastal waters</td>
<td>1 - 3 feet or 0.3 - 1 meter</td>
</tr>
<tr>
<td>WATCH</td>
<td>Prepare to take action. Monitor local TV, radio, social media, NOAA weather radio</td>
<td>A TSUNAMI IS POSSIBLE. Arrival time is several hours away. Prepare now. Alert level may change.</td>
<td></td>
</tr>
<tr>
<td>INFORMATION STATEMENT</td>
<td>NO action needed</td>
<td>NO tsunami impact expected.</td>
<td></td>
</tr>
</tbody>
</table>

THREAT MESSAGE: Issued for International Partners NOT for U.S. Coasts

Department of Commerce | National Oceanic and Atmospheric Administration | National Weather Service | National Tsunami Warning Center
Notification Protocol

National Tsunami Warning Center

Local National Weather Service Office

EAS

Broadcast TV & Radio
Sirens, WEA
NOAA Weather Radio

Cal OES
State Warning Center

Reverse 911
Manual Sirens
Civil Air Patrol
Patrol Vehicle

County OES

THE PUBLIC

What Should I Do?

• Be Informed
• Be Prepared
• Get Involved
Are You in the Tsunami Zone?

MyHazard.ca.gov
Tsunami.ca.gov
TsunamiZone.org

Tsunami Hazard Signs
Tsunami Evacuation Information

Balboa Island Tsunami Kiosk

Hermosa Beach Tsunami Evacuation Map

Newport Beach Tsunami Kiosk

Be Prepared

Evacuation Kit List

Water

Snacks

Flashlight

Portable Radio

Blanket

Cash

Cell Phone

Food

Emergency Contacts

Prescription Medications

Contacts / glasses

Pet Food

Battery Pack

Canned Goods

First Aid Kit

Pain Medication

Gum

Toothbrush

Chopsticks

Towels

Shampoo

Socks

Are You in The Zone?

TsunamiZone.org

Family Emergency Plan

Be Prepared
Get Involved
Practice – Do a Drill

- Move Inland or to higher ground
- Follow Evacuation Route Signs
- Listen to instructions from local officials
- Be prepared to stay where you are for hours – possibly 2 days

Tsunami Preparedness Week
March 21-25, 2022

Register Tsunami Preparedness Week Activities at TsunamiZone.org
Tsunami Resources – Reference Information

Key Tsunami Resources

- tsunami.ca.gov
  - California (CA) Tsunami Program
  - Mapped tsunami inundation areas
  - Preparedness information
  - Key tsunami facts

- ready.gov/tsunamis
  - Federal Emergency Management Agency (FEMA)
    - Tsunami preparedness information
    - Get involved, volunteer opportunities

- myhazards.caloes.ca.gov
- CA Office of Emergency Services
  - Type in your address to identify hazards at that location
  - Preparedness information

- rctwg.humboldt.edu
- Redwood Coast Tsunami Work Group
  - CA North Coast tsunami zones
  - Educational resources
  - Preparedness information

- tsunamizone.org
- Tsunami campaigns and resources
  - Register your tsunami preparedness activities
  - Educational materials

- tsunami.gov
- National Weather Service
  - Tsunami Warning Centers
  - Tsunami alert and warning information
  - National and international tsunami information

CA TSUNAMI PROGRAM
Matthew.palmer@caloes.ca.gov
Todd Becker
Todd.becker@caloes.ca.gov
Rick Wilson
Rick.Wilson@conservation.ca.gov
Eric Boldt (LA, Ventura, SB, SLO)
Eric.Boldt@noaa.gov
Alex Tardy (SD, ORC)
Alex.Tardy@noaa.gov
Q&A

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Please take our survey: SurveyMonkey.com/r/YWMJWKJ

Questions? info@earthquakecountry.org

Mitigation Moment:
Cal OES Hazard Mitigation Assistance

Anthony Roggio
Southern Region Lead Hazard Mitigation Specialist
California Office of Emergency Services
Who are we?

Hazard Mitigation Assistance Branch

Our Goal: Promote long-term resiliency through implementation of mitigation measures that reduce the loss to life and property from future disasters

Cal OES is responsible for overseeing and coordinating emergency preparedness, response, recovery, and homeland security activities within the State of California
What is hazard mitigation?

Any sustained action taken to reduce or eliminate long-term risk to life and property from natural hazard events

This is an on-going process that occurs before, during, and after disasters and serves to break the cycle of damage in hazard-prone areas.

What do we do?

- Manage and administer Federal grant funding available through the following programs:

  HMGP: Hazard Mitigation Grant Program
  BRIC: Building Resilient Infrastructure & Communities
  FMA: Flood Mitigation Assistance

  Specific to Presidentially-declared disasters and competitive statewide
  Annually appropriated by Congress and competitive nationwide

FEMA: Federal Emergency Management Agency
### Who can we help?

<table>
<thead>
<tr>
<th>Entity</th>
<th>HMGIP</th>
<th>BRIC</th>
<th>FMA</th>
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<tbody>
<tr>
<td>State/Territorial Agencies</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Indian Tribal Governments</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Local Governments/Communities</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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<tr>
<td>Private non-profit Organizations (PNPs)</td>
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</table>

***Cal OES has the authority to set specific priorities for each funding opportunity***

### How can we help?

<table>
<thead>
<tr>
<th>Eligible Activities</th>
<th>HMGIP</th>
<th>BRIC</th>
<th>FMA</th>
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<tbody>
<tr>
<td>Property Acquisition and Structure Demolition</td>
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<tr>
<td>Property Acquisition and Structure Relocation</td>
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<tr>
<td>Structure Elevation</td>
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<tr>
<td>Mitigation Reconstruction</td>
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<tr>
<td>Dry Flood proofing of Historic Residential Structures</td>
<td>✔</td>
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<tr>
<td>Dry Flood proofing of Non-Residential Structures</td>
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<tr>
<td>Generators</td>
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<tr>
<td>Localized Flood Risk Reduction Projects</td>
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<tr>
<td>Non-Localized Flood Risk Reduction Projects</td>
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<tr>
<td>Structural Retrofitting of Existing buildings</td>
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<tr>
<td>Non-Structural Retrofitting of Existing Buildings and Facilities</td>
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<tr>
<td>Safe Room Construction</td>
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<tr>
<td>Wind Retrofit for One and Two Family Residences</td>
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<tr>
<td>Infrastructure Retrofit</td>
<td>✔</td>
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<tr>
<td>Soil Stabilization</td>
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<td>Wildfire Mitigation</td>
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<td>Post Disaster Code Enforcement</td>
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<td>Advance Assistance for HMGIP &amp; Project Scoping for BRIC</td>
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<tr>
<td>5 % Initiative Projects</td>
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<td>Miscellaneous/Other</td>
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<tr>
<td>Planning Related Activities</td>
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<td>Technical Assistance</td>
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<tr>
<td>Management Cost</td>
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***Cal OES has the authority to set specific priorities for each funding opportunity***
Building Resilient Infrastructure & Communities
Capability & Capacity Building (C&CB)

C&CB activities must result in a resource, strategy, or tangible mitigation product that will reduce or eliminate risk and damage from future natural hazards, increase resiliency, and promote a culture of preparedness

- **Implementation of Building Code Adoption and Enforcement:**
  - Evaluate adoption and/or implementation of codes that reduce risk
  - Enhance existing adopted codes to incorporate more current requirements or higher standards
  - Develop professional workforce capabilities through technical assistance and training

- **Building Strategic Partnerships:**
  - Enhance the knowledge, skills, and expertise of applicants and subapplicants in developing and managing partnerships to build whole community resilience

- **Project Scoping Activities:**
  - Scoping and developing hazard mitigation projects and alternatives, including engineering design and feasibility studies
  - Conducting outreach and coordination, evaluating at-risk facilities, collecting BCA and/or EHP data

- **Mitigation Planning and Planning-Related Activities:**
  - Mitigation planning activities funded by BRIC must result in a new FEMA approved hazard mitigation plan or contribute additional information to a FEMA-approved mitigation plan

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Climate Resiliency & Adaptation

- Floodplain and stream restoration
- Aquifer storage and recovery
- Flood diversion and storage
- Sea Level Rise
- Green infrastructure
Wildfire Mitigation

- Ignition-resistant construction
- Defensible space measures
- Hazardous fuels reduction
- Replanting/reforestation
- Drainage improvements
- Soil stabilization
- Erosion control

HMGP Post-Fire Mitigation

- Cal OES receives an annual funding appropriation based on the total amount of all Fire Management Assistance Grants (FMAG) the State received in the Federal fiscal year
- Cal OES may elect to conduct outreach to solicit subapplications from jurisdictions impacted by wildfires
- This funding is focused on mitigation related to the post-fire environment
Contact us:
HMA@CalOES.ca.gov

Visit our website:
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Q&A

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The recording of today’s webinar will be available next week at:
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Questions?
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Facilitated Discussion & Networking

- Any further questions related to today’s presentations?
- What other ideas have been inspired by today’s presentations?
- What topics should be included in 2022 ECA SoCal Workshops?

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