3.20 WILDFIRE

This section of the 2024 PEIR describes existing wildfire conditions within the SCAG region, sets forth the regulatory framework that affect wildfire, and analyzes the potential impacts of Connect SoCal 2024. In addition, this 2024 PEIR provides regional-scale mitigation measures as well as project-level mitigation measures that can and should be considered and implemented by lead agencies for subsequent, site-specific environmental reviews to reduce identified impacts as appropriate and feasible. Other fire protection considerations are addressed in Section 3.15, *Public Services*, under the discussion of fire protection. Emergency access and emergency response and evacuation plans are addressed in Section 3.9, *Hazards and Hazardous Materials*.

3.20.1 ENVIRONMENTAL SETTING

DEFINITIONS

Definitions of terms used in the regulatory framework, characterization of baseline conditions, and impact analysis for wildfire follow:

- CAL FIRE: California Department of Forestry and Fire Protection (abbreviated Cal Fire and styled CAL FIRE). CAL FIRE is the State of California's fire protection agency responsible for protection and stewardship of over 31 million acres of the state's privately-owned wildlands. CAL FIRE is an "all-risk" department, meaning its teams may respond to a car crash, medical incident, hazardous material spill, or natural disaster, not just fires. CAL FIRE is also responsible for managing 71,000 acres of Demonstration State Forests, overseeing enforcement of state forest management regulations, and operating training and certification course trainings (CAL FIRE 2023a).
- *Clearance:* Space cleared of vegetation as required by law, regulation, easement, etc. for the purpose of preventing fires.
- Containment/Control: A fire is contained when it is completely surrounded by a boundary but is still burning and has the potential to jump a boundary line. The boundary may be a "fire line" which is a strip of area where the vegetation has been removed to deny the fire fuel, or a river, a freeway or some other barrier which is expected to stop the fire. Hose lines from fire engines may also contribute to a fire being surrounded and contained. A fire is controlled when there is no further threat of it jumping a containment line. While crews continue to do mop-up work within the fire lines, the fire fight is over.
- Contract Counties: Contract counties are counties where the local county fire department is contracted by CAL FIRE to protect a State Responsibility Area (SRA). Section 4133 of the Public Resources Code and Section 55607 of the Government Code permit the CAL FIRE Director to contract with counties for protection of SRAs. In California, six counties provide fire-prevention services in SRAs under contract with the state. These counties are Marin, Kern, Santa Barbara, Ventura, Los Angeles, and Orange.
- Damage Assessment: Amount of economic loss, including cost of fire suppression.
- Defensible Space: An area either natural or manmade where material capable of causing a fire to spread
 unchecked has been treated, cleared, reduced, or changed in order to act as barrier between the advancing
 wildfire and the loss to life, property, or resources. This concept is vital for firefighter safety and provides the
 single significant element of protection of individual property owners. California law requires homeowners
 to maintain 100 feet of defensible space around homes and structures.

- Easement: A right to cross or otherwise use someone else's property for a specified purpose.
- Fire Hazard: Dangerous accumulation of flammable fuels in wildland areas, usually referring to vegetation or
 the flammable materials that may be ignited by various fire risks or cause fires to increase in intensity or rate
 of spread.
- Fire Hazard Zoning: A planning and regulatory activity (typically conducted by a local agency such as a city
 or county) which provides criteria for what kinds, how many and under what conditions development or
 other activities should be regulated in areas of various hazard classification.
- Fire Season: In California fire season generally lasts for six to eight months, from summer to early fall. In recent years, fire season has extended into December.
- Greenbelts: A facility or land use designed for a use other than fire protection, which will slow or resist the spread of a wildfire. Includes parking lots, irrigated or landscaped areas, golf courses, parks, playgrounds and maintained vineyards, orchards or annual crops that do not cure in the field.
- Interface/Wildland Interface: The meeting point of wildland and structures. At this interface, structures and vegetation are sufficiently close that a wildland fire could spread to structures or a structure fire ignites vegetation.
- Intermix/Wildland Intermix: Interspersing of developed land with wildland, where there are no easily
 discernible boundaries between the two systems. In this setting, there may be homes or other structures
 intermixed with wildland fuels, as opposed to a distinct area of wildland fuel adjacent to a developed area.
- Local Responsibility Area (LRA): Areas where wildland fire protection is the responsibility of the local government. LRA fire protection is typically provided by city fire departments, fire protection districts, counties, and by CAL FIRE under contract to local governments.
- Prescribed Burning: Controlled application of fire to wildland fuels, in either their natural or modified state, under conditions of weather, fuel moisture, soil moisture, etc., as to allow the fire to be confined to a predetermined area and at the same time to produce results to meet planned objectives of land management.
- Santa Ana Winds: Santa Ana winds blow from the northeast toward the beaches as areas of strong high
 pressure build across the interior west. The wind speed can be magnified as air squeezes over mountain
 passes and rushes downhill, heating and drying as it descends in elevation. Severe Santa Ana Wind events
 pose a heightened wildfire risk.
- State Responsibility Area (SRA): SRAs are areas in which the primary financial responsibility for preventing and suppressing fires is that of the state and is defined based on land ownership, population density and land use (CAL FIRE 2017). These include lands covered wholly or in part by timber, brush, undergrowth or grass, whether of commercial value or not; lands which protect the soil from erosion, retard run-off of water or accelerated percolation; lands used principally for range or forage purposes; lands not owned by the Federal government; and lands not incorporated. By Board regulations, unless specific circumstances dictate otherwise, lands are removed from SRA when housing densities average more than 3 units per acre over an area of 250 acres. CAL FIRE has SRA responsibility for the protection of more than 31 million acres of California's privately-owned wildlands (CAL FIRE 2017).
- Wildland: Refers to unoccupied lands.
- Wildland Urban Interface: Refers to the geographical point where flammable vegetation meets man-made structures.

EXISTING CONDITIONS

A wildfire is defined as a non-structural fire in undeveloped area with the potential to spread to an urban area. While wildfires are common across California, a variety of factors can affect the likelihood of a fire occurring and the severity of the burn. Unsurprisingly, locations with hot, dry, and windy conditions face a greater fire hazard than wetter and cooler locations, and communities near wildland areas are more endangered than those in cities and towns. Vegetation, topography, roadways, and management methods also contribute to an area's potential for fire hazards. Steep hillsides and varied topography may also increase the risk of wildland fires, and could affect natural resources, as well as life and property. Most fires in California occur during late summer and early fall, but recently the fire season is starting earlier and lasting longer in the year, affecting areas longer, and resulting in more extreme events due to climate change.

CAL FIRE publishes Fire Hazard Severity Zone Maps for the entire State of California, which include fire hazard measurements, as well as the areas that are under SRA lands or LRA lands, for each county in the State (CAL FIRE 2022a). These maps place areas of the state into different fire hazard severity zones (FHSZs) based on a hazard scoring system using subjective criteria for fuels, fire history, terrain influences, housing density, and occurrence of severe fire weather where urban fire could result in catastrophic losses. As part of this mapping system, land where CAL FIRE is responsible for wildland fire protection and generally located in unincorporated areas is classified as a SRA. In addition to establishing local or state responsibility for wildfire protection in a specific area, CAL FIRE designates areas as very high fire hazard severity zones (VHFHSZs) or non-VHFHSZs (CAL FIRE 2023g).

In 2020, Southern California experienced the hottest year on record, with temperatures in Woodland Hills reaching 121 degrees, the hottest temperature ever recorded at an official National Weather Service station in Los Angeles County (NASA Earth Observatory 2020). The heat, coupled with years of drought and an increase of forest pests and disease linked to climate change, created perfect fire conditions that allowed for some of the most destructive and deadliest fires in the state's history. Wind direction and intensity, particularly for fires close to populated areas pose not only safety issues, but also air quality related health issues resulting from particulate matter emitted from wildfire smoke (refer to Section 3.3, *Air Quality*, of this 2024 PEIR for further information on impacts from particulate matter). Consequently, 2020 was characterized as the deadliest and most destructive wildfire year in Southern California recorded history, with 1,381 fires that burned 165,641 acres (CAL FIRE 2020a).

FIRE HAZARD SEVERITY ZONES

Wildland fire protection in California is the responsibility of either the local, state, or federal government. Public Resources Code Section 4201-5 (Chapter 806, Statues of 1982) requires CAL FIRE to evaluate fire hazard severity and map FHSZs for all SRAs. FHSZs are based on factors such as fuel, slope, and weather and are designated as moderate, high, and very high. Zone classification is based on a combination of how a fire will behave and the probability of flames and embers threatening buildings. By identifying areas with the potential for more severe wildfire hazards, FHSZ maps allow for proper planning, prevention, and mitigation that reduce wildfire damages. On November 21, 2022, CAL FIRE updated all FHSZ maps for SRA counties and pending receipt of all public comments on the revised maps, will make recommendations to LRAs (Office of the State Fire Marshall 2023).

After the Oakland Hills Fire of 1991, the "Bates Bill" (Senate Bill 337) was passed in 1992, calling on CAL FIRE to make recommendations to local jurisdictions where VHFHSZs exist. The bill provides direction for local jurisdictions to mitigate fire spread and reduce the intensity of uncontrolled blazes.

FHSZ levels range from Moderate to Very High. FHSZs are designated in three types of areas based on what level of government is financially responsible for preventing and suppressing wildfires:

- Federal Responsibility Areas (FRAs): The federal government is financially responsible for wildfire suppression. Within the District, the Angeles National Forest and federal land in the Santa Monica Mountains National Recreation Area are FRAs.
- **SRAs:** The state is financially responsible for wildfire suppression. Within the District, SRAs are in outlying areas such as the Santa Susana Mountains, foothills of the San Gabriel Mountains, and parts of the Santa Monica Mountains.
- LRAs: Cities or the County are financially responsible for wildfire suppression. LRAs in Los Angeles County include foothills of the Santa Susana and San Gabriel Mountains, and in the Verdugo Mountains, Santa Monica Mountains, Hollywood Hills, San Rafael Hills, Puente Hills, and in other hills in the central Los Angeles area.

SCAG REGION

Though wildland fires are a natural part of the ecological processes, in the past, it was presumed that all wildland fires should be extinguished promptly. This caused "protected" vegetation to grow denser, weakening vegetation in a struggle for living space and increasing destruction by pests and disease; and in turn, added fuel for future fire. In addition, the absence of fire can alter or disrupt the cycle of natural plant succession and the associated habitats that form. Recognizing this, land management agencies are now committed to finding ways, such as prescribed burning, to reintroduce fire into natural ecosystems. In addition, California has extended droughts, which increase dead and dying vegetation, dry fuel per acre volumes, and many days of low humidity. Furthermore, most wildfires in the region are caused by humans (e.g., wildfires resulting from campfires, improperly discarded matches, cigarettes, and other flammable materials, commercial and residential fires, power line accidents, and arson). This remains true even before accounting for the crisis of anthropogenic climate change, which has exacerbated wildfires. Wildfire increases the potential for runoff and erosion, as fire removes ecological stabilizers such as vegetation and healthy soil. In coastal regions and other areas with steep slopes, scorched land left after a wildfire is particularly susceptible to debris flow and other hazards.

SRAs and LRAs have been mapped in every county in the SCAG region (CAL FIRE 2007, 2023g). The majority of VHFHSZs are located where wildlands meet urbanized areas, usually near large recreation areas.

IMPERIAL COUNTY

Imperial County is a predominantly agricultural area and approximately 50 percent of County lands are undeveloped and under federal jurisdiction. The potential for a major fire in the unincorporated areas of the County is generally low.

From the standpoint of fire safety, building and fire codes are the tool most used by local jurisdictions. The County implements the Uniform Building Code (UBC) and the Uniform Fire Code (UFC) (Imperial County Municipal Code 2020; Imperial County Municipal Code 2010). The Imperial County Codified Zoning Ordinance also contains provisions which act to reduce fire hazards. The Imperial County Subdivision Ordinance is also used to reduce the risk of fire by securing, as a condition of subdivision of land, water systems of adequate size and pressure for firefighting, and adequate roadway widths for emergency service vehicle access including maneuverability of fire trucks (Imperial County Planning & Development Services 1998). Additionally, the

County's Fire Prevention and Explosives Ordinance contains provisions for the purpose of prescribing regulations governing conditions hazardous to life and property from fire or explosion. This program enables the public to be better prepared when an emergency fire situation occurs.

Imperial County's Fire Prevention Bureau runs the Imperial County Fire Prevention Program. The purpose of the Imperial County Fire Prevention Program is to assist in preventing injuries, deaths, business interruption and property damages resulting from fires and other emergencies. The Fire Prevention Bureau currently enforces the 2010 California Fire, Building, Electrical, County Ordinances, as amended by the County of Imperial Municipal Code, in addition to National Fire Protection Association standards; Title 19, of the California Public Safety Code; and the California Health and Safety Code (Imperial County Fire Department & Office of Emergency Services 2023).

Imperial County has virtually no VHFHSZs, with only extremely small areas located near the northwest and southwest corners of the county (CAL FIRE 2022c).

LOS ANGELES COUNTY

Northern and western Los Angeles County feature vast swaths of wildland areas. The County's largest wildland area is the Angeles National Forest, a 700,000-acre forest that stretches across northern Los Angeles County between Gorman and Mt. Baldy. Much of the forest is marked by dense chaparral shrubs and woodlands. The Santa Monica Mountains National Recreation Area, a 150,000-acre area in the western portion of Los Angeles County, is comprised of several contiguous open space areas, including Malibu Creek State Park, Topanga State Park, and Leo Carrillo State Park. The Woolsey Fire in November 2018 burned 88 percent of all National Park Service acres within the park boundary. Following the Woolsey Fire, a wet winter allowed black mustard plants to quickly establish a presence in the area. This non-native plant quickly dries and provides fuel for future fires.

In Los Angeles County, heavily urbanized areas in the northwest and southern parts of the County are largely excluded from VHFHSZ designations, whereas communities near Topanga State Park and Angeles National Forest are at a much higher risk of wildfire impacts. However, even densely populated areas may be designated as VHFHSZs depending on their proximity to wildlands, such as the highly urbanized area surrounding the Kenneth Hahn State Recreation Area in Los Angeles (CAL FIRE 2023b). Examples of recent fires in Los Angeles County include the September 2020 Bobcat Fire in the Angeles National Forest and the October 2019 Getty Fire in the City of Los Angeles, which was ignited during strong Santa Ana wind conditions (Los Angeles Times 2019, 2020b).

ORANGE COUNTY

Orange County is highly urbanized with wildland areas located primarily in the east and southeast of the county. The largest wildland area is the Cleveland National Forest, a 460,000-acre forest partially located in Orange County along the boundary with Riverside County. The Cleveland National Forest is characterized by chaparral and a warm, dry Mediterranean climate. The South Coast Wilderness Area, located along the Orange County Coast between Newport Beach and Laguna Niguel, is comprised of several contiguous open space areas, including Crystal Cove State Park, Laguna Coast Wilderness Park, and Aliso and Wood Canyons Wilderness Park (CAL FIRE 2023c). These parks feature rugged coastal canyons, grasslands, and riparian woodlands. Wildfire increases the potential for runoff and erosion, as fire removes ecological stabilizers such as native vegetation and healthy soil and replaces them with invasive plants and debris. In addition, a portion of the 14,173-acre Chino Hills State Park is in northern Orange County and features chaparral plant communities.

CAL FIRE marks portions of the following cities as VHFHSZs: Aliso Viejo, Anaheim, Brea, Dana Point, Fullerton, Irvine, La Habra, Laguna Beach, Laguna Niguel, Laguna Woods, Lake Forest, Mission Viejo, Newport Beach, Orange, Rancho Santa Margarita, San Clemente, San Juan Capistrano, Tustin, Villa Park, and Yorba Linda.

RIVERSIDE COUNTY

With development growing into outlying hill and grassland areas and an increasing number of people owning homes and businesses in Riverside County, wildfires are becoming a growing and catastrophic hazard in the County. As more and more people are moving into areas of wildland-urban interface, the danger for wildfire conditions from the mix of fuels, topography, and accessibility, are posing increasing risks to residents, as well as to fire protection service providers. In some parts of Riverside County, fire danger can be worsened by steep, rugged topography, which would allow wildland fire to spread quickly and make it more difficult to fight.

The Riverside County Hazard Reduction Office, a division within the Riverside County Fire Department, enforces the abatement of hazardous vegetation and abandoned or neglected orchards, groves, and vineyards. The County's Hazard Abatement Program requires property owners to maintain 100 feet of defensible space between structures and vegetation. Guidelines on horizontal and vertical spacing of plants and trees are also enforced.

CAL FIRE's recommendations on VHFHSZs for Riverside County bisect the county into an eastern and western portion. Eastern Riverside County is primarily comprised of dry, desert land and is sparsely populated. Similar to Imperial, the eastern half of Riverside County contains essentially no VHFHSZs. Western Riverside County has a greater variety of climates, topography, and flora. The 800,000-acre San Bernardino National Forest is located in this half of Riverside County within a VHFHSZ. At the boundary with Orange County, the Cleveland National Forest is also a designated VHFHSZ. Additionally, several freeways in Riverside County are located within VHFHSZs, including I-15 between Lake Elsinore and Temecula, I-215 between Sun City and Murrieta, and SR-60 between Moreno Valley and Beaumont (CAL FIRE 2023d).

SAN BERNARDINO COUNTY

Most of San Bernardino County is in an FRA. Thus, fire protection is typically provided by city fire departments, fire protection districts, counties, and by CAL FIRE under contract to local government. The San Bernardino County Fire Protection District is one of the largest providers of fire protection services in these areas. Due to its dry, desert climate San Bernardino County has limited areas of VHFHSZs. The only VHFHSZs in the county are in the southwest corner, stretching along the San Gabriel Mountains from the county's western border to Yucca Valley (CAL FIRE 2023e). Most of the VHFHSZs in San Bernardino County are along its north and northeast edges at the foot of the San Bernardino and San Gabriel mountains; at its southeast margin in the north end of the San Timoteo Badlands; and in the southwest corner of the region in Chino Hills. Nearly the entire Mountain Region is mapped as VHFHSZ, while most of the desert regions are mapped outside of high or VHFHSZs. As of 2019, it is estimated that more than 34,000 residents in the unincorporated county live in VHFHSZs, and more than 63,000 live in HFHSZs (County of San Bernardino 2019).

VENTURA COUNTY

Much of Ventura County is considered a VHFHSZ and is primarily located in a SRA (CAL FIRE 2023f). Specifically, the central and northern portions of the County are part of the Los Padres National Forest, accounting for 46 percent of the overall landmass. The forest features semi-arid, chaparral vegetation, which is prone to wildfire.

The Fire Hazard Reduction Program is the cornerstone of Ventura County Fire Department's (VCFD) Wildland Fire Action Plan. In partnership with property owners and neighbors, VCFD recommends a 100-foot defensible space radius between structures and vegetation and places restrictions on certain types of vegetation (Ventura County Fire Code 2013).

Several freeways in Ventura County are located within VHFHSZs, including US-101 between Camarillo and Thousand Oaks, SR-33 between Ventura and Ojai, and SR-118 between Moorpark and Simi Valley. Much of the housing in these cities is located within an urban-wildland intermix area, and as such, wildfires and subsequent evacuations are a concern. In December 2017, the Thomas Fire burned through Ventura and Santa Barbara Counties and, as of 2023, remains the largest wildfire in the history of the SCAG region (CAL FIRE 2022d). The fire spread quickly, destroying hundreds of structures, prompting evacuations, and leading to deadly mudflows after a rainstorm the following month.

CLIMATE CHANGE

In the last decade (since the 2013 fire season), California has experienced eight of the state's 10 largest wildfires and seven of its 10 most destructive fires in its history (CAL FIRE 2022d). CAL FIRE's total funding for fire protection, resource management, and fire prevention has grown from \$800 million in 2005-2006 to an estimated \$3.7 billion in 2021-22 (California Legislative Analyst's Office 2023). Over the past five decades, summertime forest fires have increased in size by roughly 800 percent. Though no single wildfire can be attributed solely to climate change, evidence shows that the increase in average temperatures statewide is creating conditions more prone to wildfires (Williams et al. 2019). Additionally, rainfall which occurs after wildfires can result in debris flows which cause destructive impacts. For example, in December 2018, the Thomas Fire burned through Ventura and Santa Barbara Counties, leading to loss of vegetation and soil erosion along sloped hillsides. Subsequently, a strong storm poured five inches of rain onto charred hillsides over a short period of time on January 9, 2019. The storm resulted in deadly mudslides, caused extensive property damage, and caused the closure of US-101 for nearly two weeks (NASA 2018; Ventura County Star 2018). A similar incident occurred in Malibu as a result of a mudslide following the Woolsey Fire, which forced the closure of a 13-mile stretch of Pacific Coast Highway (ABC Los Angeles 2019). Furthermore, mudflows could expose people to hazards posed by ruptured methane gas pipelines, as occurred in Burbank in January 2018 following the La Tuna Fire of September 2017 (CBS Los Angeles 2018).

By 2100, it is estimated that climate change will cause the frequency of extreme rainfall following wildfires to increase by 100 percent in California, and more than 90 percent of extreme fire weather events will be followed by at least three extreme rainfall events within five years (Touma. et al. 2022). Southern California has warmed about three degrees Fahrenheit in the last century, and every additional increment of warming speeds up evaporation, dries out soil and vegetation, and increases the amount of fuel available for a wildfire (USEPA 2016). In 2020, wildfires in California released approximately 85.2 million tons of carbon dioxide (CARB 2021). Studies suggest that greenhouse gas emissions from wildfires create a positive feedback loop, wherein the emissions warm the planet further, leading to more wildfires and more emissions.

3.20.2 REGULATORY FRAMEWORK

FEDERAL

DISASTER MITIGATION ACT OF 2000

The Disaster Mitigation Act (DMA) 2000 (Public Law 106-390) provides the legal basis for the Federal Emergency Management Agency (FEMA)'s mitigation planning requirements for state, local and tribal governments as a condition of mitigation grant assistance. DMA 2000 amended the Robert T. Stafford Disaster Relief and Emergency Assistance Act by repealing the previous mitigation planning provisions and replacing them with a new set of requirements that emphasize the need for state, local, and tribal entities to closely coordinate mitigation planning and implementation efforts. The requirement for a state mitigation plan is continued as a condition of disaster assistance, adding incentives for increased coordination and integration of mitigation activities at the state level through the establishment of requirements for two different levels of state plans. DMA 2000 also established a new requirement for local mitigation plans and authorized up to 7 percent of Hazard Mitigation Grant Program funds available to a state for development of state, local, and tribal mitigation plans (FEMA 2020).

FEDERAL RESPONSE PLAN

The Federal Response Plan of 1999 is a signed agreement among 27 federal departments and agencies, including the American Red Cross, that (1) provides the mechanism for coordinating delivery of federal assistance and resources to augment efforts of state and local governments overwhelmed by a major disaster or emergency; (2) supports implementation of the Robert T. Stafford Disaster Relief and Emergency Act, as well as individual agency statutory authorities; and (3) supplements other federal emergency operations plans developed to address specific hazards. The Federal Response Plan is implemented in anticipation of a significant event likely to result in a need for federal assistance or in response to an actual event requiring federal assistance under a Presidential declaration of a major disaster or emergency (FEMA 1999).

FEDERAL EMERGENCY MANAGEMENT AGENCY REGULATIONS

The primary mission of FEMA is to reduce the loss of life and property and protect the nation from all hazards, including natural disasters, acts of terrorism, and other human-made disasters, by leading and supporting the nation in a risk-based, comprehensive emergency management system of preparedness, protection, response, recovery, and mitigation (Government Publishing Office 2022). SCAG is under the jurisdiction of FEMA Region 9, which covers Arizona, California, Hawaii, Nevada, Guam, American Samoa, Commonwealth of Northern Mariana Islands, Republic of Marshall Islands, Federated State of Micronesia, and more than 150 sovereign tribal entities. In Southern California, FEMA Region 9 specifically plans for hazards such as major earthquakes and wildfires (FEMA 2023).

NATIONAL FIRE PLAN

The Department of the Interior's National Fire Plan is intended to ensure an appropriate federal response to severe wildland fires, reduce fire impacts to rural communities, and ensure sufficient firefighting capacity in the future (U.S. Department of the Interior 2007). The Rural Fire Assistance program is funded to enhance the fire protection capabilities of rural fire districts and safe and effective fire suppression in the wildland-urban interface. The program promotes close coordination among local, state, tribal, and federal firefighting resources by conducting training, equipment purchase, and prevention activities on a cost-shared basis (U.S. Fish & Wildlife Service Fire Management 2009).

STATE

SENATE BILL 99

In November 2018, the Camp Fire devastated the town of Paradise, California, killing 86 people and destroying nearly 19,000 structures. One reason the Camp Fire was so deadly was the lack of adequate evacuation routes to simultaneously allow residents to leave and first responders to enter. Although modern developments require adequate ingress and egress routes, many existing developments, such as those in Paradise, predate these requirements. SB 99, signed into law on August 30, 2019, requires cities to identify in the safety element of their general plans any residential developments in any wildfire hazard areas that do not have at least two emergency evacuation routes (California Legislative Information. 2019a).

SENATE BILL 901

After record-breaking drought in California from 2011 to 2017, perfect wildfire conditions allowed faulty Pacific Gas & Electric (PG&E) Corp's utility lines to spark devastating fires that would scorch over 4,000 square miles of land across the state. In response to the deadly season, the California Legislature developed Senate Bill 901 (Utility Wildfire Management Plans) as the "centerpiece measure" in its attempt to rectify damages from the 2017 wildfires and prevent future wildfire disasters. SB 901 mandates all electric utilities to prepare and submit wildfire mitigation plans that describe the utilities' plan to prevent, combat, and respond to wildfires affecting their service territories. The California Public Utilities Commission (CPUC) will review and refine the plans before implementing and enforcing them. In the short-term, SB 901 allows PG&E to lean on its customers in paying for billions of dollars in fire-related damages. It also provides over \$1 billion for vegetation management over five years (CPUC 2021).

ASSEMBLY BILL 1054

Assembly Bill 1054 (AB 1054) was signed into law by Governor Gavin Newsom on July 12, 2019, creating a \$21 billion fund to help California's investor-owned utilities cover liabilities caused by wildfires. Under the legislation, the state's investor-owned utilities will put a combined \$5 billion toward improvements in their electrical grids to access the fund. Ratepayers will also contribute \$10.5 billion by way of a 15-year extension of an existing rate increase. The bill also imposes several conditions on utilities, including \$5 billion in safety investments and utility participation in a new annual safety certification process overseen by CPUC (California Legislative Information. 2019b). The legislation was passed in the wake of the Camp Fire, California's deadliest and most destructive wildfire in history. PG&E equipment failure was responsible for the blaze. PG&E sought bankruptcy protection after the Camp Fire so it could reorganize its finances to pay \$30 billion in liabilities from multiple wildfires (NYT 2019a).

SENATE BILL 1079

Senate Bill 1079 (SB 1079) (Forest Resources: Fire Prevention Grant Fees) builds from existing laws establishing grants to private entities, Native American tribes, and public agencies to assist in the implementation and administration of projects and programs relating to improving forest health and reducing greenhouse gas (GHG) emissions. SB 1079 authorizes CAL FIRE to make advance payments to grantees (such as fire safe councils, Native American tribe, or special district), which receive funds from the healthy forest and local fire-prevention grant programs.

SENATE BILL 1241

In 2012, Senate Bill 1241 (SB 1241) added Section 66474.02 to Title 7 Division 2 of the California Government Code, commonly known as the Subdivision Map Act. The statute prohibits subdivision of parcels designated very high fire hazard, or that are in an SRA, unless certain findings are made prior to approval of the tentative map. The statute requires that a city or county planning commission make three new findings regarding fire hazard safety before approving a subdivision proposal. The three findings are, in brief: (1) the design and location of the subdivision and its lots are consistent with defensible space regulations found in PRC Section 4290-91, (2) structural fire protection services will be available for the subdivision through a publicly funded entity, and (3) ingress and egress road standards for fire equipment are met per any applicable local ordinance and PRC Section 4290. The Occupational Safety and Health Act (29 Code of Federal Regulations [CFR] Parts 70 to 2400), which is implemented by the Federal Occupational Safety and Health Administration (OSHA), contains provisions with respect to hazardous materials handling. Federal OSHA requirements, as set forth in 29 CFR Section 1910 et seq., are designed to promote worker safety, worker training, and a worker's right—to-know. In California, OSHA has delegated the authority to administer OSHA regulations to the State of California.

ASSEMBLY BILL 301

Assembly Bill 301 (AB 301) was enacted to amend Section 4213.1, and to add Section 4213.2 to the Public Resources Code related to fire prevention. Section 4213.1 requires CAL FIRE to notify a property owner that the property's terms of sale could include a portion of the Fire Prevention Fee. Section 4213.2 allows a property owner to negotiate a portion of the fee as one of the terms of sale.

ASSEMBLY BILL 38 (CALIFORNIA EMERGENCY SERVICES ACT)

This bill requires the Natural Resources Agency, by July 1, 2021, and in consultation with the State Fire Marshal and the Forest Management Task Force, to review the regional capacity of each county that contains a very high fire hazard severity zone to improve forest health, fire resilience, and safety, as specified. On or after July 1, 2021, the bill would require a seller of real property located in a high or very high fire hazard severity zone to provide specified documentation to the buyer that the real property is in compliance with the wildfire protection measures or a local vegetation management ordinance, or enter into an agreement with the buyer pursuant to which the buyer will obtain documentation of compliance.

ASSEMBLY BILL 2551

Approved in 2018, Assembly Bill 2551 (AB 2551) Forestry and Fire Prevention: Joint Prescribed Burning Operation authorizes CAL FIRE to collaborate with private landowners on controlled burns to reduce wildfire fuel. Mismanagement of the forests can lead to a build-up of forest underbrush that serves as a perfect fuel for wildfires. By allowing small, non-industrial landowners to choose to individually implement various fire prevention programs, such as prescribed burns, AB 2551 promotes good, local forest management in the state.

STATE CALIFORNIA DEPARTMENT OF FORESTRY AND FIRE PROTECTION REGULATIONS

CAL FIRE protects the people of California from fires, responds to emergencies, and protects and enhances forest, range, and watershed values providing social, economic, and environmental benefits to rural and urban citizens. CAL FIRE's firefighters, fire engines, and aircraft respond to an average of more than 5,600 wildland fires each year. The Office of the State Fire Marshal supports CAL FIRE's mission by focusing on fire prevention. It

provides support through a wide variety of fire safety responsibilities including regulating buildings in which people live, congregate, or are confined; controlling substances and products which may, in and of themselves, or by their misuse, cause injuries, death, and destruction by fire; providing statewide direction for fire prevention in wildland areas; regulating hazardous liquid pipelines; reviewing regulations and building standards; and providing training and education in fire protection methods and responsibilities (Office of the State Fire Marshal 2019).

CALIFORNIA HEALTH AND SAFETY CODE

Sections 13000 et seq. of the California Health and Safety Code include fire-related regulations for structural standards (similar to those identified in the California Building Code); fire protection and public notification systems; fire protection devices such as extinguishers and smoke alarms; standards for high-rise structures and childcare facilities; and fire suppression training. The State Fire Marshal is responsible for enforcement of these established regulations and building standards for all state-owned buildings, state-occupied buildings, and state institutions within California.

CALIFORNIA GOVERNOR'S OFFICE OF EMERGENCY SERVICES OPERATIONAL STRATEGIES

California Governor's Office of Emergency Services (Cal OES) is the Emergency Management authority for the State of California. The Cal OES began as the State War Council in 1943. With an increasing emphasis on emergency management, it officially became OES in 1970. On July 1, 2013, Governor Edmund G. Brown Jr.'s Reorganization Plan #2 eliminated the California Emergency Management Agency (Cal EMA); restored its powers, purposes, and responsibilities to Cal OES; and also merged it with the Office of Public Safety Communications. Cal OES' mission statement is the following: "Protect lives and property, build capabilities, and support our communities for a resilient California." OES operational strategies include (Governor's Office of Emergency Services 2017):

- **Meet basic human needs** All possible efforts must be made to supply resources to meet basic human needs, including food, water, accessible shelter, medical treatment, and security during an emergency.
- Address needs of individuals with disabilities or access and functional needs Individuals with
 disabilities and others with access and functional needs are disproportionally impacted during and after an
 emergency. The needs of individuals with disabilities or access and functional needs must be considered and
 addressed before, during, and after disasters.
- **Mitigate hazards** As soon as practical, suppress, reduce, or eliminate hazards and/or risks to persons and property during the disaster response. Lessen the actual or potential effects or consequences of future emergencies.
- **Restore essential services** Power, water, sanitation, accessible transportation, and other essential services must be restored as rapidly as possible to assist communities in returning to normal daily activities.
- Support Community and Economic Recovery All members of the community must collaborate to ensure recovery operations are conducted efficiently, effectively, and equitably, promoting expeditious recovery of the affected areas.

CALIFORNIA PUBLIC RESOURCES CODE

Public Resources Code (PRC) Sections 4201–4204 and Government Code Sections 51175–89 direct CAL FIRE to map areas of significant fire hazards based on fuels, terrain, weather, and other relevant factors. FHSZs define the application of various mitigation strategies to reduce risk associated with wildland fires.

CALIFORNIA FIRE CODE

Part 9 of the 2022 California Building Standards Code (CBC) (California Code of Regulations Title 24) covers the California Fire Code (2022, Title 24, Part 9). The purpose of the California Fire Code is to establish the minimum requirements consistent with nationally recognized good practices to safeguard the public health, safety, and general welfare from the hazards of fire, explosion or dangerous conditions in new and existing buildings, structures, and premises.

The purpose of the California Fire Code is to establish the minimum requirements consistent with nationally recognized good practices to safeguard the public health, safety, and general welfare from the hazards of fire, explosion or dangerous conditions in new and existing buildings, structures, and premises. The Fire Code also establishes requirements intended to provide safety for and assistance to firefighters and emergency responders during emergency operations. The provisions of the Fire Code apply to the construction, alteration, movement, enlargement, replacement, repair, equipment, use and occupancy, location, maintenance, removal, and demolition of every building or structure throughout California. The Fire Code includes regulations regarding fire-resistance-rated construction, fire protection systems such as alarm and sprinkler systems, fire services features such as fire apparatus access roads, means of egress, fire safety during construction and demolition, and wildland-urban interface areas. Several jurisdictions within the SCAG region have adopted the California Fire Code as part of their building regulations (Building Standards Commission 2022).

CALIFORNIA FIRE PLAN

The Fire Plan is a cooperative effort between the State Board of Forestry and Fire Protection and the California Department of Forestry and Fire Protection. By placing the emphasis on what needs to be done long before a fire starts, the Fire Plan looks to reduce firefighting costs and property losses, increase firefighter safety, and to contribute to ecosystem health. The current plan was adopted in 2018, which reflects CAL FIRE's goals of (1) fire prevention and suppression activities to protect lives, property, and ecosystem services, and (2) natural resource management to maintain the state's forests as a resilient carbon sink to meet California's climate change goals and to serve as important habitat for adaptation and mitigation (CAL FIRE 2018).

CALIFORNIA DISASTER ASSISTANCE ACT

The California Disaster Assistance Act (CCR Title 19, Chapter 6) authorizes the Director of the Cal OES to administer a disaster assistance program that provides financial assistance from the state for costs incurred by local governments as a result of a disaster event. Funding for the repair, restoration, or replacement of public real property damaged or destroyed by a disaster is made available when the Director concurs with a local emergency proclamation requesting state disaster assistance (Governor's Office of Emergency Services 2019).

GOVERNOR'S OFFICE OF PLANNING AND RESEARCH REGULATORY PROGRAM

The Governor's Office of Planning and Research (OPR) serves the Governor and his Cabinet as staff for long-range planning and research and constitutes the comprehensive state planning agency (Government Code

Section 65040). OPR is empowered to draft CEQA Guidelines for adoption by the Secretary of Natural Resources in collaboration with the Natural Resources Agency. In January 2018, OPR transmitted its proposal for comprehensive updates to the CEQA Guidelines to the Natural Resources Agency, who finalized the updates in late 2018. The updated Guidelines became effective on December 28, 2018 (OPR 2018).

CALIFORNIA PUBLIC UTILITIES COMMISSION FIRE SAFETY RULEMAKING

In December 2017, CPUC issued Decision (D.) 17-12-024 adopting regulations to enhance fire safety in the High Fire Threat District (HFTD) and subsequently adopted CPUC's final fire threat map. This map, together with CAL FIRE's Tier 1 High Hazard Zones comprise the HFTD Map where stricter fire-safety regulations apply. These regulations include requiring utilities to prioritize safety hazards, maintain more stringent wire-to-wire clearances in certain areas, and prepare a fire prevention plan annually if they have overhead facilities in the HFTD. Further, electric utilities may disconnect service to customers who refuse to provide access to their property for the removal of trees that pose an immediate threat for contacting a power line (CPUC 2017).

BEST PRACTICES FOR ANALYZING AND MITIGATING WILDFIRE IMPACTS OF DEVELOPMENT PROJECTS UNDER THE CALIFORNIA ENVIRONMENTAL QUALITY ACT

The State Office of the Attorney General has prepared guidance for lead agencies and CEQA practitioners regarding the analysis of wildfire impacts in CEQA documents (State of California Office of the Attorney General 2022). This guidance is designed to help lead agencies comply with CEQA when considering whether to approve projects in wildfire-prone areas. These areas are often in the wildland-urban interface, generally defined as the area where the built environment meets or intermingles with the natural environment. As noted above, CAL FIRE has classified lands based on fire risk, the highest being those classified as high or very high fire hazard severity zones. It has also identified areas where the State (as opposed to a local agency) has responsibility for firefighting. Particularly in these high-risk areas, but also throughout the wildland-urban interface, wildfire risks must be considered during the environmental review process for individual development projects. This guidance document provides suggestions for how best to comply with CEQA when analyzing and mitigating a proposed project's impacts on wildfire ignition risk, emergency access, and evacuation, and is aimed at proposed development projects, such as residential, recreational, or commercial developments. The extent to which it applies will inherently vary by project, based on project design and location. The guidance document does not impose additional requirements on local governments or alter any applicable laws or regulations. Rather, it is intended to provide guidance on some of the issues, alternatives, and mitigation measures that should be considered during the environmental review process. This guidance is based on the Office of the Attorney General's experience reviewing, commenting on, and litigating CEQA documents for projects in high wildfire prone areas, and is intended to assist lead agencies with their planning and approval of future projects. The guidance reflects current requirements and conditions and may need to be updated as changes occur.

OPR 2022 FIRE HAZARD PLANNING TECHNICAL ADVISORY

OPR's Fire Hazard Planning Technical Advisory is one in a series of technical advisories provided by OPR as a service to professional planners, land use officials, and CEQA practitioners (OPR 2022). OPR issues technical guidance on issues that broadly affect land use planning, including the application of CEQA. The goal of this technical advisory is to provide a robust planning framework for addressing fire hazards, reducing risk, and increasing resilience across California's diverse communities and landscapes. To accomplish this goal, it is essential that local agencies (i.e., cities and counties) develop and incorporate effective policies and implementation programs in their general plans and integrate their general plans with other relevant hazard and

risk reduction policies, plans, and programs. This advisory provides guidance on those policies and programs and is also intended to assist city and county planners in discussions with professionals from fire hazard prevention and mitigation, disaster preparedness, and emergency response and recovery agencies as they work together to develop effective fire hazard policies for the general plan. The Fire Hazard Planning technical advisory was first published in 2015. Pursuant to the requirements of SB 901 (2018) and AB 2911 (2018), as codified in Government Code Section 65040.21, OPR updated this document to include "specific land use strategies to reduce fire risk to buildings, infrastructure, and communities." OPR prepared the most recent (2022) update "in consultation with the Department of Forestry and Fire Protection (CAL FIRE), the State Board of Forestry and Fire Protection (State Board), and other fire and safety experts." Per Government Code Section 65040.21, OPR must update the guidance document "not less than once every eight years".

LOCAL

COUNTY GENERAL PLANS

In addition to federal and state requirements, general plans and municipal codes of counties and cities in the SCAG region may include safety elements that goals and policies related protecting people and property from risks from wildfires and associated hazards.

IMPERIAL COUNTY GENERAL PLAN

The Land Use Planning and Public Safety and Emergency Preparedness Elements of the Imperial County General Plan have established goals related to protection of public health and safety for consideration in the land use planning process. The specified goals and objectives are intended to minimize potential hazards to public health and safety and prevent the loss of life and damage to properties and rely heavily on ensuring conformance with established applicable state codes. However, the Plan does not currently include any goals or policies relating directly to wildfire (Imperial County Planning & Development Services 2015). The Imperial County Multi-Hazard Mitigation Plan (MHMP), developed in 2021 in coordination with County and City planning partners, provides a framework to address and mitigate natural and human-caused hazards as defined by DMA 2000. The MHMP includes wildfire prevention plans, programs, and regulations pertinent to Imperial County, including VHFHSZ mapping, the Imperial County Codified Zoning Ordinance, the Imperial County Subdivision Ordinance, the Imperial County Fire Prevention and Explosives Ordinance, and the Fire Prevention Education Program. The MHMP concludes that there is very low potential for wildfires in Imperial County due to the desert and agriculture topography of the County (Imperial County Fire Department & Office of Emergency Services 2021).

LOS ANGELES COUNTY GENERAL PLAN

The Safety Element of the Los Angeles County General Plan 2035 Update, in conjunction with the All-Hazard Mitigation Plan prepared by the Chief Executive Office, Office of Emergency Management (CEO OEM), sets strategies for natural and man-made hazards in Los Angeles County (County of Los Angeles, Department of Regional Planning 2015). The 2014 All-Hazard Mitigation Plan, which has been approved by FEMA and Cal OES, includes a compilation of known and projected hazards in Los Angeles County (County of Los Angeles, Chief Executive Office – Office of Emergency Management 2014). Los Angeles County Regional Planning is in the process of preparing the Countywide Community Wildfire Protection Plan (CCWPP). The CCWPP will provide community-focused fire protection strategies for Los Angeles County unincorporated communities at risk for wildfire impacts (County of Los Angeles, Department of Regional Planning 2023a). A Community Wildfire Protection Ordinance (CWPO) is being developed concurrently with the CCWPP. The CWPO would amend the

Los Angeles County Code Title 21 (Subdivisions Code) and Title 22 (Planning and Zoning Code), thereby modifying existing regulations to new development in VHFSHSZ, including specific requirements for new subdivisions and projects located in hillside areas (County of Los Angeles, Department of Regional Planning 2023b). Additionally, the Los Angeles County Planning Department is currently developing an Integrated Wildfire Safety Program (IWSP) in response to the 2018 Woolsey Fire and 2019 Tick Fire. The ISWP would establish a common wildfire planning framework for the County and facilitate the implementation of wildfire mitigation and recovery strategies (OPR 2023). Specific goals and policies related to fire hazards within the Safety Element of the County of Los Angeles General Plan include, but are not limited to:

- Goal S: An effective regulatory system that prevents or minimizes personal injury, loss of life, and property
 damage due to fire hazards.
 - Policy S 3.1: Discourage high density and intensity development in VHFHSZs.
 - Policy S 3.2: Consider climate change implications in fire hazard reduction planning for FHSZs.
 - Policy S 3.3: Ensure that the mitigation of fire related property damage and loss in FHSZs limits impacts to biological and other resources.
 - Policy S 3.5: Encourage the use of low-volume and well-maintained vegetation that is compatible with the area's natural vegetative habitats.
 - Policy S 3.8: Support the retrofitting of existing structures in FHSZs to help reduce the risk of structural and human loss due to wildfire.

ORANGE COUNTY GENERAL PLAN

The Safety Element of the Orange County General Plan provides for the protection of people and property from risks associated with hazards, including those affiliated with wildfire, through the implementation of mitigation measures as outlined in the California Emergency Plan, the California Master Mutual Aid Agreement, the Orange County Emergency Plan, the Orange County Operational Area Plan, San Onofre Nuclear Generating Station (S.O.N.G.S.) Plan, County of Orange and Orange County Fire Authority Hazard Mitigation Plan, and other emergency management plans. The Safety Element of the Orange County General Plan focuses primarily upon the County's planned response to extraordinary emergency situations associated with natural disasters, technological incidents, intentional acts of terrorism and nuclear protection operations. To reduce the County's susceptibility and vulnerability to extraordinary emergency situations, the Safety Element recommends continued emphasis is placed on several coordinated efforts (Orange County Planning & Development 2015):

- Mitigation
- Emergency planning
- Training of full-time, auxiliary, and reserve personnel
- Public awareness and education; and assuring the adequacy and availability of sufficient resources to cope with such emergencies

In December 2021, the Board of Supervisors adopted a new County of Orange and Orange County Fire Authority Hazard Mitigation Plan (HMP) in compliance with federal and state regulations. The HMP includes wildfire-related mitigation action items in concurrence with projects included in the General Plan, including the implementation of a real-time remote sensing and fire monitoring platform to monitor wildland areas in Orange County Alert Wildfire (County of Orange, Orange County Fire Authority 2021).

The County's Wildland Fire Defense Planning and Prevention oversees it's READY! SET! GO! program, which aims to reduce wildland fire risk through a formalized fuel modification inspection and enforcement program and monitors wildland and vegetation conditions to identify potential hazards, ensuring communities in the wildland urban interface areas are better protected from the risk of wildland fire. Specific applicable goals and policies related to fire safety within the Safety Element of the Orange County General Plan are:

- **Goal 1:** Provide a safe living environment, ensuring adequate fire protection facilities and resources to prevent and minimize the loss of life and property fire.
 - Policy 1: To encourage periodic updating of fire hazard mapping and continue to analyze existing fire hazard data as it pertains to Orange County.
 - Policy 13: To improve emergency response times for emergency responders through the use of computer-aided dispatch system and "preempt traffic signal control" system.

RIVERSIDE COUNTY GENERAL PLAN

The Safety Element of the Riverside County General Plan addresses fire hazards through policies related to building code and conformance standards, wind-related hazards, and general and

long-range fire safety planning. Due to the rugged topography and vegetation coverage that characterizes significant portions of the County, the Safety Element recognizes wildfire hazard as the highest-priority hazard in the County with the greatest potential for catastrophic damage and loss of life. The following goals and policies related to wildfire hazards are within the Safety Element of the Riverside County General Plan (Riverside County Planning Department 2021):

- **Goal 4.1:** All development and construction within Fire Hazard Severity Zones shall be reviewed by the Riverside County Fire Department and Building and Safety Department for consistency with the following requirements before the issuance of any building permits: (AI 25, 81.1, 81.2, 104.1).
 - Policy C: Proposed development and construction in Fire Hazard Severity Zones shall provide secondary public access, in accordance with Riverside County ordinances, where required. There shall be multiple points of ingress and egress that allow for emergency response vehicle access. Points of access shall also include visible street addresses and signs and sufficient water supplies, infrastructure for structural fire suppression, and other applicable local and state requirements.
 - Policy D: Proposed development and construction in Fire Hazard Severity Zones shall use single loaded roads to enhance fuel modification areas, unless otherwise determined by the Riverside County Fire Chief
 - Policy E: Proposed development and construction in Fire Hazard Severity Zones shall provide a
 defensible space or fuel modification zones to be located, designed, constructed, and maintained to
 provide adequate defensibility from wildfires.
 - Policy F: Prior to the approval of all parcel maps and tentative maps, the County shall require, as a condition of approval and as feasible and appropriate, the developer meet or exceed the State Responsibility Area Fire Safe Regulations and the Fire Hazard Reduction Around Buildings and Structures Regulations, particularly those regarding road standards for ingress, egress, and fire equipment access (see Gov. Code, Section 66474.02.).
 - Policy G: Proposed development and construction of more than four residential units or more than 10,000 square feet of nonresidential space located in Very High Fire Hazard Severity Zones, or other

appropriate zones as determined by the Riverside County Fire Department, shall submit and implement a fire protection plan as feasible and appropriate. This plan shall include provisions for roadways and access, firefighting infrastructure, signage, vegetation management, construction materials, and evacuations.

- **Goal 4.3:** Monitor fire-prevention measures (e.g., fuel reduction) through a site-specific fire-prevention plan to reduce long-term fire risks in Very High Fire Hazard Severity Zones. (AI 25, 88).
- **Goal 4.5:** Require proposed development in High or Very High Fire Hazard Severity Zones be located where fire and emergency services are available or will be constructed as part of the proposed development activities, to the extent such locations are available. These services should meet the minimum response times as established by the Riverside County Fire Department. (Al 60, 61).
- **Goal 4.8:** Locate new critical public facilities outside of High or Very High Fire Hazard Severity Zones or other areas facing elevated risk of wildfire events. Critical facilities include emergency shelters, emergency command and communication facilities, and hospital and healthcare centers. If no feasible alternative site exists, ensure that these facilities incorporate all necessary protections to allow them to continue to serve community needs during and after disaster events. (Al 25, 60).

SAN BERNARDINO COUNTY GENERAL PLAN

The San Bernardino County General Plan contains a Hazards Element, which addresses wildfires. It mandates the development of Community Wildfire Protection Plans for mountain communities, compliance with the County's Tree Preservation Ordinance, improvements to public notification systems, and the continued monitoring of post-wildfire debris flow hazard evaluation and prediction methodologies. The CAL FIRE San Bernardino County Unit's (SBCU) 2020/2021 Strategic Fire plan provides a framework to address and mitigate wildfire risks to communities and natural ecosystems within SRA and wildland contract areas within San Bernardino, Los Angeles, Inyo, and Mono Countries. The Strategic Fire Plan identifies priority projects and wildfire mitigation measures for each of the fire battalions within the SBCU (CAL FIRE 2020b): Specific applicable goals and policies of the General Plan related to fire hazards within the Hazards Element of the County of San Bernardino General Plan include, but are not limited to (County of San Bernardino 2022):

- Goal HZ-1: Natural Environmental Hazards Minimized risk of injury, loss of life, property damage, and
 economic and social disruption caused by natural environmental hazards and adaptation to potential
 changes in climate.
 - Policy HZ-1.2: New development in environmental hazard areas. We require all new development to be located outside of the environmental hazard areas listed below. For any lot or parcel that does not have sufficient buildable area outside of such hazard areas, we require adequate mitigation, including designs that allow occupants to shelter in place and to have sufficient time to evacuate during times of extreme weather and natural disasters.
 - Flood: 100-year flood zone, dam/basin inundation area
 - Geologic: Alquist Priolo earthquake fault zone; County-identified fault zone; rockfall/debris-flow hazard area, medium or high liquefaction area (low to high and localized), existing and Countyidentified landslide area, moderate to high landslide susceptibility area)
 - Fire: high or very high fire hazard severity zone
 - Policy HZ-1.7: Underground utilities. Underground utilities are required to be designed to withstand seismic forces, accommodate ground settlement, and be hardened to fire risk.

- Policy HZ-1.9: Hazard areas maintained as open space. We minimize risk associated with flood, geologic, and fire hazard zones or areas by encouraging such areas to be preserved and maintained as open space.
- Policy HZ-1.13: Fire protection planning. We require that all new development in County-designated Fire Safety Overlay and/or CAL FIRE-designated Very High Fire Hazard Severity Zones meet the requirements of the California Fire Code and the California Building Code as amended by the County Fire Protection District, including Title 14 of the California Code of Regulations fire safety requirements for any new development within State Responsibility Areas, as well as provide and maintain a Fire Protection Plan or Defensible Space/Fuel Modification Plan and other pre-planning measures in accordance with the County Code of Ordinances.
- Policy HZ-1.14: Long-term fire hazard reduction and abatement. We require proactive vegetation management/hazard abatement to reduce fire hazards on existing private properties, along roadsides of evacuation routes out of wildfire prone areas, and other private/public land where applicable, and we require new development to enter into a long-term maintenance agreement for vegetation management in defensible space, fuel modification, and roadside fuel reduction in the Fire Safety Overlay and/or Very High Fire Hazard Severity Zones.
- Policy HZ-1.15: Evacuation route adequacy. We coordinate with CAL FIRE, California's Office of Emergency Services, and other local fire districts to identify strategies that ensure the maintenance and reliability of evacuation routes potentially compromised by wildfire, including emergency evacuation and supply transportation routes.

VENTURA COUNTY GENERAL PLAN

The Safety Element of the Ventura County General Plan contains specific goals to minimize the risk of loss of life, injury, serious illness, damage to property, and economic and social dislocations resulting from fire hazards and wildfire. Additionally, the Plan identifies HFHSZs and lists specific management practices to protect those who currently live within such a zone and prepare appropriate development and management in the future. The County's Multi-jurisdictional Hazard Mitigation Plan (HMP) was adopted by the Board of Supervisors on July 12, 2022, and approved by FEMA on August 16, 2022. The HMP includes objectives related to mitigating the risk of wildfires, such as greenbelts and fire breaks around communities and along roadways (County of Ventura 2022). Specific policies related to fire hazards within the Safety Element of the Ventura County General Plan include, but are not limited to (County of Ventura 2019):

- Minimize the risk of loss of life, injury, damage to structures, and economic and social dislocations resulting from fire hazards.
- Ensure that development in high fire hazard areas is designed and constructed in a manner that minimizes the risk from fire hazards.
- Require at least two means of access for emergency vehicles and resident evacuation for new residential subdivisions, except if otherwise permitted by County Fire Chief.

CITY GENERAL PLANS

The SCAG region spans six counties and 191 cities, each of which has a general plan that contains policies related to hazards, including those related to fires. Additional plans and ordinances at the master plan level, city-level, and specific plan level may also apply within the SCAG region. Furthermore, fire departments and other agencies in the SCAG region have a variety of local laws that regulate reporting, storage, handling, and

transporting hazardous substances and materials (refer to Section 3.9, *Hazards and Hazardous Materials*, of this 2024 PEIR for further information).

3.20.3 ENVIRONMENTAL IMPACTS

THRESHOLDS OF SIGNIFICANCE

For the purposes of this 2024 PEIR, SCAG has determined that adoption and/or implementation of the Plan could result in significant adverse impacts related to wildfire risk, if transportation projects and land use development projects are located in or near SRAs or lands classified as very high hazard severity zones and would exceed any of the following significance criteria, in accordance with California Environmental Quality Act (CEQA) Guidelines Appendix G:

- Substantially impair an adopted emergency response plan or emergency evacuation plan (this criterion is addressed in Section 3.17, *Transportation*);
- Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire;
- Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency
 water sources, power lines or other utilities) that may exacerbate fire risk or that may result in temporary or
 ongoing impacts to the environment; or
- Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes.

In addition, the following criterion from Section 3.9, *Hazards and Hazardous Materials*, is addressed along with wildfire:

 Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires

METHODOLOGY

Chapter 2, *Project Description*, describes the Plan's vision, goals, policies, forecasted regional development pattern, policies and strategies, and individual transportation projects and investments. The Plan aims to increase mobility, promote sustainability, and improve the regional economy. Although land use development is anticipated to occur within the region even without the Plan, the Plan could influence growth, including distribution patterns. To address this, the 2024 PEIR includes an analysis on the implementation of policies and strategies as well as potential projects and evaluates how conditions in 2050 under the Plan would differ from existing conditions. The analysis of wildfire considered public comments received on the NOP and feedback and discussions at the various public and stakeholder outreach meetings.

The methodology for determining the significance of the Plan's impacts to wildfire response and related hazards and infrastructure compares the existing (2022) conditions to future (2050) conditions. Wildfire conditions and hazards within the SCAG region were evaluated at the programmatic level of detail, in relation to the general plans of the six counties and 191 cities within the SCAG region; the management plans for the four national forests in the SCAG region, Angeles National Forest, San Bernardino National Forest, Los Padres National Forest,

and Cleveland National Forest; the California Department of Forestry and Fire Protection, and a review of related literature germane to the SCAG region.

This analysis considers the Plan's impacts on wildfire hazards, provides mitigation measures, where necessary, and addresses the environmental effects related to wildfire hazards. The potential for impacts related to wildfire was assessed by examining the transportation projects and potential land use development resulting from the Plan in relation to the fire hazard severity zones in the six counties within the SCAG region. Because implementation of the Plan could result in some projects located in or near SRAs or lands classified as very high hazard severity zones, all potential wildfire impacts are analyzed below.

As discussed in Chapter 2, *Project Description*, and Section 3.0, *Introduction to the Analysis*, Connect SoCal 2024 includes Regional Planning Policies and Implementation Strategies some of which will effectively reduce impacts in the various resource areas. Furthermore, compliance with all applicable laws and regulations (as set forth in the Regulatory Framework) would be reasonably expected to reduce impacts of the Plan. See CEQA Guidelines Section 15126.4(a)(1)(B). As discussed in Section 3.0, *Introduction to the Analysis*, where remaining potentially significant impacts are identified, SCAG mitigation measures are incorporated to reduce these impacts. If SCAG cannot mitigate impacts of the Plan to less than significant, project-level mitigation measures are identified which can and should be considered and implemented by lead agencies as applicable and feasible.

IMPACTS AND MITIGATION MEASURES

IMPACT WF-1 Substantially impair an adopted emergency response plan or emergency evacuation plan.

As discussed in Section 3.0, *Introduction to the Analysis*, due to the similarities of the topic areas, Impact WF-1 is addressed together with Impacts HAZ-6 and TRA-4 in Section 3.9, *Hazards and Hazardous Materials*, of this 2024 PEIR.

- IMPACT WF-2 Due to slope, prevailing winds, and other factors, exacerbate wildfire risks, and thereby expose project occupants to, pollutant concentrations from a wildfire or the uncontrolled spread of a wildfire.
- IMPACT HAZ-7 Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires.

Significant and Unavoidable Impact – Mitigation Required

As discussed in Section 3.0, *Introduction to the Analysis*, due to the similarities of the topic areas, Impacts WF-2 and HAZ-7 are addressed together.

The SCAG region is susceptible to wildfires particularly during the summer and fall seasons, especially during Santa Ana wind conditions. Wildfires have the potential to occur not only in fire-prone undeveloped areas, but also in developed areas where existing transmission lines, lightning strikes, lawn equipment operated over dry grass, fireworks, and even arson may ignite a wildfire. While the urban and developed areas of Riverside, San Bernardino, Imperial, and Ventura counties, may include fire resistant and drought tolerant plants that offer

some protection to existing structures, these counties also have more undeveloped areas susceptible to wildfire risks than Los Angeles and Orange counties. According to the FHSZ maps for the area, the rural areas in the SCAG region range from Moderate FHSZs to VHFHSZs under the State's classification system (CAL FIRE 2022a). Population in the SCAG region is expected to grow by over two million people (10.9 percent) by 2050 (with or without the Plan). The Plan focuses the majority of the region's future growth within Priority Development Areas (PDAs) and away from Green Region Resource Areas (GRRAs) but recognizes inherent constraints to expansive regional growth and anticipates that some population growth would still occur in areas at risk of wildfire, natural hazards and changing climate. Because of this, Connect SoCal 2024 sets forth land use strategies that encourage conservation of farmland, resource areas and habitat corridors, and guide growth away from lands that are vulnerable to wildfire, flooding, and near-term sea-level rise. Relevant discussions regarding the Plan's environmental impacts related to farmland conservation, biological resources and associated habitats, and flooding (including flooding from sea level rise) are located in Section 3.2, Agriculture and Forestry Resources, Section 3.4, Biological Resources, and Section 3.10, Hydrology and Water Quality, respectively, of this 2024 PEIR.

During peak wildfire season where high winds and low humidity may occur, electrical utilities have started to implement Power Safety Power Shut Off (PSPS) events to preemptively shut off power to customers in wildfire-prone areas as a precautionary measure (refer to Section 3.6, *Energy*, of this 2024 PEIR for further information). For example, Southern California Edison began PSPS events in 2017 and notifies customers two days in advance. At the direction of CPUC, customers who live in high fire risk areas, as defined by CPUC maps, are more likely to experience a PSPS (SCE 2023). Since 2019, SCE has performed 1,876 PSPS events lasting a combined 1,965 days, with 14 PSPS events lasting a combined 18 days in 2022 (CPUC 2022a). Another major de-energization event lasted from November 21 to November 25, 2022, and affected the Ventura, Los Angeles and Riverside Counties (CPUC 2022b). Inclement weather conditions that could potentially damage electrical utilities infrastructure resulting in wildfires (e.g., strong winds, heat events) may trigger a PSPS event. It is not feasible to anticipate the frequency of PSPS events and analyze their effects in this 2024 PEIR without undue speculation. PSPS events are considered an event of last resort due to the hardships that sustained power outages can have on SCE customers. If a PSPS event were to occur, it would likely be temporary.

The ongoing crisis of climate change has worsened wildfire conditions in California and the SCAG region. Since the early 1970s, California's annual wildfire extent increased fivefold, punctuated by extremely large and destructive wildfires in 2017, 2018, and 2021 (CAL FIRE 2022b). This trend was mainly due to an eightfold increase in summertime forest-fire area and was very likely driven by drying of fuels promoted by human-induced warming (Williams et al. 2019). Since climate change makes droughts more frequent and severe and makes temperatures warmer in California, the drying of fuels is likely to continue worsening conditions in wildfire-prone areas of the SCAG region.

Wildfires pose a significant public health risk due to their air quality impacts, particularly with regard to smoke and particulate matter exposure. This risk persists even after a wildfire is extinguished because particulate matter from fire ash can be picked up by winds. In addition, as discussed in Section 3.8, *Greenhouse Gas Emissions*, of this 2024 PEIR, wildfires release substantial amounts of greenhouse gases. As discussed in Section 3.3, *Air Quality*, of this 2024 PEIR, wildfires release substantial amounts of criteria air pollutants, particularly particulate matter.

Connect SoCal 2024 de-emphasizes development on agricultural lands in unincorporated counties, and in areas subject to future two-foot sea level rise. To further prioritize natural habitat areas and avoid impacts to the environment, Connect SoCal 2024's conservation strategies seek to avoid growth in wetlands, wildlife corridors,

biodiverse areas, wildfire prone areas and floodplains. The Plan includes natural and farm lands conservation strategies to support the conservation of habitats that are prone to hazards exacerbated by climate change such as wildfires.

Creating a sustainable, "green" region requires that the built environment and natural resource areas coexist in a well-balanced land use pattern that encourages mutual co-benefits. The quality and range of conservation, natural and agricultural areas present in the region can be reinforced and enhanced by a range of regional and local tools. Paired with an emphasis on compact development, Connect SoCal 2024's conservation strategies promote the economic and ecological benefits of preserving natural areas and farmlands, while also maximizing their potential for greenhouse gas reduction. As discussed in Chapter 2, *Project Description*, the Plan focuses new housing and employment growth in PDAs and away from GRRAs. This emphasis on concentrated, compact growth makes it easier to travel shorter distances, which reduces per-capita greenhouse gas emissions. In addition, natural areas and farmlands have the capacity to absorb and store atmospheric carbon dioxide, preventing additional contributions of GHG emissions. Natural lands conservation has the co-benefit of protecting communities from major hazards caused or exacerbated by climate change, such as wildfires and flooding.

Furthermore, wildfire-prone areas tend to pose accessibility challenges for vehicular access points due to topography. These roads could face more gridlock in the event of a sudden emergency evacuation than flat, urbanized areas may experience. Such circumstances could expose vehicle occupants to active flames and potential death, as was seen in the Camp Fire in Paradise and the Woolsey Fire in Malibu in 2018 (NYT 2019b).

While the Plan focuses development in PDAs, SCAG recognizes that with additional 1.6 million housing units by 2050 will result in some development near natural wildland areas which may have a greater wildfire risk. Furthermore, given that the specific locations and details of projects consistent with the Plan are mostly unknown at this time, the projects may be located in wildlife-prone areas which could potentially exacerbate wildfire risks and thereby expose project occupants to pollutant concentrations from wildfires, the uncontrolled spread of wildfires, or exposure of people or structures to a significant risk of loss, injury or death involving wildland fires particularly those populations living downwind of the fire. As such, impacts are considered significant and mitigation measures are required.

MITIGATION MEASURES

SCAG MITIGATION MEASURES

See SMM-GEN-1, SMM-HAZ-1, SMM-HAZ-2, SMM-HYD-1, SMM-LU-1 through SMM-LU-3, and SMM-POP-1 and SMM-POP-2.

SMM-WF-1 SCAG shall continue to provide a regional forum for collaboration in planning, communication, and information sharing on best practices around wildfire resilience.

PROJECT-LEVEL MITIGATION MEASURES

See PMM-HAZ-5

PMM-WF-1 In accordance with provisions of Sections 15091(a)(2) and 15126.4(a)(1)(B) of the State CEQA Guidelines, a Lead Agency for a project can and should consider mitigation measures to reduce

wildfire risk, as applicable and feasible. Such measures may include the following or other comparable measures identified by the Lead Agency:

- a) Launch fire prevention education for local cities and counties such that local fire agencies, homeowners, as well as commercial and industrial businesses are aware of potential sources of fire ignition and the related procedures to curb or lessen any activities that might initiate fire ignition.
- b) Ensure structures in high fire risk areas are built to current state and federal standards which serve to greatly increase the chances the structure will survive a wildfire and also allow for people to shelter-in-place.
- c) Improve road access for emergency response and evacuation so people can evacuate safely and timely when necessary.
- d) Improve, and educate regarding, local emergency communications and notifications with residents and businesses.
- e) Enforce defensible space regulations to keep overgrown and unmanaged vegetation, accumulations of trash and other flammable material away from structures.
- f) Provide public education about wildfire risk and fire prevention measures, and safety procedures and practices to allow for safe evacuation and/or options to shelter-in-place.
- g) Include external sprinklers with an independent water source to reduce flammability of structures.
- h) Include local solar power paired with batteries to reduce power flow in electricity lines.
- For developments in high fire-prone areas, have a fire protection plan for residents and businesses.
- j) Provide fire hazard and fire safety education for homeowners in or near fire hazard areas.
- k) Developments in fire-prone areas should have fire-resistant feature, such as:
 - 1) Ember-resistant vents
 - 2) Fire-resistant roofs
 - 3) Surrounding defensible space
 - 4) Proper maintenance and upkeep of structures and surrounding area

LEVEL OF SIGNIFICANCE AFTER MITIGATION

As previously discussed, the Plan's Regional Planning Policies and Implementation Strategies (see Chapter 2, *Project Description*, and Section 3.0, *Introduction to the Analysis*) and compliance with existing laws and regulations would reduce impacts; however, given the regional scale of the analysis in this 2024 PEIR, it is not possible or feasible to determine if all impacts would be fully mitigated. Therefore, this 2024 PEIR identifies SCAG and project-level mitigation measures. At the project level, lead agencies can and should consider the identified project-level mitigation measures during subsequent review of transportation and land use projects as appropriate and feasible. While the mitigation measures will reduce the impacts related to exacerbating wildfire risk and exposure of residents to pollutants and exposure of people or structures to a significant risk of loss, injury or death involving wildland fires, due to the regional nature of the analysis, unknown site conditions and

project-specific details, and SCAG's lack of land use authority over individual projects, SCAG finds that the impact could be **significant and unavoidable** even with mitigation.

IMPACT WF-3

Require the installation or maintenance of associated infrastructure (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate fire risks or that may result in temporary or ongoing impacts to the environment.

Significant and Unavoidable Impact – Mitigation Required

The SCAG region is a mix of urban and rural communities, natural woodland areas, as well as semi-desert areas. Future development and/or re-development in these areas has the potential to require the installation of new roadways or infrastructure facilities such that there is an increased risk of new ignition sources generating the spread of wildfires. Areas with dry vegetation have the potential to exacerbate wildfire risk due to future development activities that could generate flammable debris piles. This is particularly true in the rural and underdeveloped parts of the SCAG region. Future roadway and development construction in such areas, while likely to be less in the future, may still occur, such development has the potential to result in significant impacts as a result of construction equipment generating sparks or oil spill and other combustible materials leading to the start and spread of wildfires. Newer electrical equipment providing power to any new homes developed in fire prone areas is anticipated to be fitted with fire-safe devices, but hazards may remain as a result of electricity infrastructure as well as common fire hazards associated with human habitation.

The Plan encourages growth in PDAs and away from GRRAs. As discussed above, natural lands conservation has the co-benefit of protecting communities from major hazards caused or exacerbated by climate change, such as wildfires and flooding. Nonetheless, it is expected that new development will also occur in rural or suburban areas which may have a greater wildfire risk. Increased development, in combination with a push for more electrical infrastructure (e.g., SB 100), may result in increased wildfire risk due to power lines (refer to Section 3.6, Energy, of this 2024 PEIR for further information on SB 100). As discussed under Impact WF-2, SCE maintains a PSPS policy to shut off power to its lines during high wildfire probability events (i.e., when conditions are such that wildfire is a high probability) which would help to reduce potential impacts (SCE 2023). In addition, many local jurisdictions and plans require undergrounding of electrical infrastructure which also helps to reduce risk of wildfire. Nevertheless, the Plan may result in development in urban/wildlands interface areas which would necessitate infrastructure such as power poles that could result in wildfire risk. As such, significant impacts may occur, and mitigation measures are required.

MITIGATION MEASURES

SCAG MITIGATION MEASURES

See SMM-WF-1.

PROJECT-LEVEL MITIGATION MEASURES

See PMM-HAZ-4.

PMM-WF-2

In accordance with provisions of Sections 15091(a)(2) and 15126.4(a)(1)(B) of the State CEQA Guidelines, a Lead Agency for a project can and should consider mitigation measures to wildfire

risk, as applicable and feasible. Such measures may include the following or other comparable measures identified by the Lead Agency:

- a) New development or infrastructure activity within very high hazard severity zones or SRAs to:
 - 1) Submit a fire protection plan including the designation of fire watch staff;
 - 2) Maintain water and other fire suppression equipment designated solely for firefighting on site for any construction and maintenance activities;
 - 3) Locate construction and maintenance equipment in designated "safe areas" such that they do not discharge combustible materials; and
 - 4) Designate trained fire watch staff during project construction to reduce risk of fire hazards.

LEVEL OF SIGNIFICANCE AFTER MITIGATION

As previously discussed, the Plan's Regional Planning Policies and Implementation Strategies (see Chapter 2, *Project Description*, and Section 3.0, *Introduction to the Analysis*) and compliance with existing laws and regulations would reduce impacts; however, given the regional scale of the analysis in this 2024 PEIR, it is not possible or feasible to determine if all impacts would be fully mitigated. Therefore, this 2024 PEIR identifies SCAG and project-level mitigation measures. At the project level, lead agencies can and should consider the identified project-level mitigation measures during subsequent review of transportation and land use projects as appropriate and feasible. While the mitigation measures will reduce the impacts related to the installation or maintenance of associated infrastructure that may exacerbate fire risks or that may result in temporary or ongoing impacts to the environment, due to the regional nature of the analysis, unknown site conditions and project-specific details, and SCAG's lack of land use authority over individual projects, SCAG finds that the impact could be *significant and unavoidable* even with mitigation.

IMPACT WF-4 Expose people or structures to significant risks, including downslope or downstream flooding or landslides, as a result of runoff, post-fire slope stability, or drainage changes.

Significant and Unavoidable Impact – Mitigation Required

Wildfires are becoming more common and intense in all areas within the SCAG region. Connect SoCal 2024 identifies an additional 1.6 million housing units by 2050, the majority of which are anticipated to be located within PDAs. However, SCAG acknowledges some development may occur towards, and through natural wildland areas and in wildfire prone areas (VHFHSZs). Development within potential fire-prone areas would create situations where people and property could be impacted by wildfire and associated subsequent hazards (flooding, landslides, etc.). Intense rainfall may also occur during the winter months, creating natural flooding events when the ground in saturated and water levels are high. This has the potential for flooding issues, and fire hazards may exacerbate such flooding and debris flows along waterways. Since debris flows may occur quickly and without warning, such flows can damage structures, block drainage, or even sweep away vegetation resulting in tenuous post-fire slope stability. Fast moving debris flows can be one of the most dangerous post-fire hazards. Due to the loss of vegetation and potential resulting soil erosion, debris flows may cause a risk to life and physical property, destroy or strip vegetation, block existing drainage patterns, and impact roadways

and other infrastructure. If this were to occur within the 100-year floodplain areas, existing flow conditions may be altered, or new sources of flooding may be created (refer to Section 3.7, *Geology and Soils*, and Section 3.10, *Hydrology and Water Quality*, in this 2024 PEIR). This has the potential to alter peak flow conditions and affect upstream, as well as downstream areas. Typically, debris flow from fire damaged areas may be a result of excessive rainfall runoff and surface erosion, since previously-burned slopes repel water and generate higher runoff rates. This can be especially true in the higher elevation areas, with steep slopes and limited drainage basins. Post-fire debris flows are typically triggered by heavy rainfall in areas already damaged by recent wildfire events, and susceptible to soil erosion. Debris flows could affect both the transportation network, utilities, and new development. Development of homes and infrastructure is anticipated to continue to occur in areas of the region that are subject to wildfire hazards and significant risks for people and structures, despite the Plan's focus on adding development to existing urban areas. Therefore, the impacts may be significant, and mitigation measures are required.

MITIGATION MEASURES

SCAG MITIGATION MEASURES

See SMM-LU-1 through SMM-LU-3, SMM-WF-1, and SMM-HYD-1.

PROJECT-LEVEL MITIGATION MEASURES

See PMM-WF-1, PMM-WF-2, PMM-HYD-1, and PMM-HAZ-4.

LEVEL OF SIGNIFICANCE AFTER MITIGATION

As previously discussed, the Plan's Regional Planning Policies and Implementation Strategies (see Chapter 2, *Project Description*, and Section 3.0, *Introduction to the Analysis*) and compliance with existing laws and regulations would reduce impacts; however, given the regional scale of the analysis in this 2024 PEIR, it is not possible or feasible to determine if all impacts would be fully mitigated. Therefore, this 2024 PEIR identifies SCAG and project-level mitigation measures. At the project level, lead agencies can and should consider the identified project-level mitigation measures during subsequent review of transportation and land use projects as appropriate and feasible. While the mitigation measures will reduce the impacts related to exposing people and structures to significant risks, as a result of runoff, post-fire slope stability, and drainage changes, due to the regional nature of the analysis, unknown site conditions and project-specific details, and SCAG's lack of land use authority over individual projects, SCAG finds that the impact could be *significant and unavoidable* even with mitigation.

CUMULATIVE IMPACTS

Connect SoCal 2024 is a regional-scale Plan comprised of policies and strategies, a regional growth forecast and land use pattern, and individual projects and investments. At this regional-scale, a cumulative or related project to the Plan is another regional-scale plan (such as Air Quality Management Plans within the region) and similar regional plans for adjacent regions. Because the Plan, in of itself, would result in significant adverse environmental impacts with respect to wildfire, these impacts would add to the environmental impacts of other cumulative or related projects. Mitigation measures that reduce the Plan's impacts would similarly reduce the Plan's contribution to cumulative impacts.

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CHAPTER 3 Environmental Setting, Impacts, and Mitigation Measures 3.20 Wildfire

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