Draft
Environmental Impact Report
for the
Stagecoach Solar Project

State Clearinghouse No. 2020100234
CSLC EIR No. 763; W30213; W26868

Lead Agency:
California State Lands Commission
100 Howe Avenue, Suite 100 South
Sacramento, CA 95825

October 2021

MISSION STATEMENT

The California State Lands Commission provides the people of California with effective stewardship of the lands, waterways, and resources entrusted to its care based on the principles of equity, sustainability, and resiliency, through preservation, restoration, enhancement, responsible economic development, and the promotion of public access.

CEQA DOCUMENT WEBSITE
www.slc.ca.gov/Info/CEQA.html

Project Geographic Location:

Latitude: 34°38'9.06"N
Longitude: 117° 1'23.73"W
(Datum WGS84)

Document prepared in coordination with:

Aspen environmental group

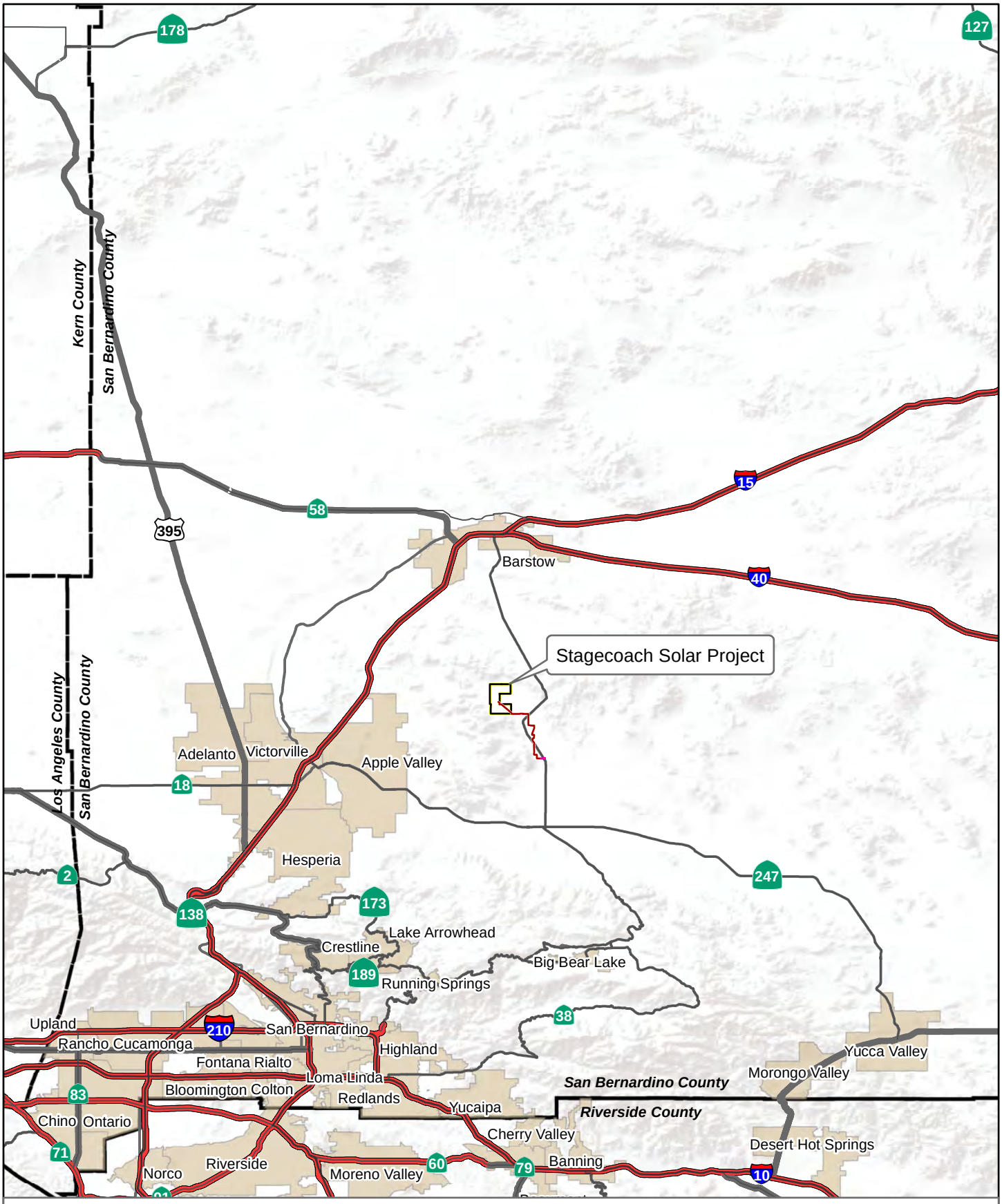
BACKGROUND, PROJECT LOCATION, AND PROJECT SCOPE

The California State Lands Commission (CSLC), as lead agency under the California Environmental Quality Act (CEQA; Pub. Resources Code, § 21000 et seq.), has prepared this Environmental Impact Report (EIR) for the proposed Stagecoach Solar Project (Proposed Project). Aurora Solar, LLC (Aurora Solar or Applicant), a wholly owned subsidiary of Avangrid Renewables, has applied to the CSLC for a lease of State-owned school lands managed by the CSLC on which to construct and operate the Proposed Project, a solar energy generation project located in San Bernardino County, approximately 15 miles south of the City of Barstow and 12 miles northwest of the unincorporated community of Lucerne Valley. The Proposed Project would generate up to 200 megawatts (MW) of solar energy using photovoltaic (PV) and battery storage technologies. Collectively, the Stagecoach Facilities would include the solar arrays, ancillary project facilities, a battery energy storage system (BESS), and a 220 kilovolt (kV) electrical generation intertie (gen-tie) line. The Project area and design details are illustrated in Figure ES-1 (Stagecoach Solar Project Region), Figure ES-2 (Proposed Project [Overview]), and Figure ES-3 (Proposed Project [Solar Generation Plant]).

The purpose of this EIR is to identify the significant impacts on the environment of the Proposed Project, identify the alternatives to the Proposed Project, and indicate the manner in which those significant effects can be mitigated or avoided (Pub. Resources Code, § 21002.1, subd. (a)). This EIR is intended to provide the CSLC with information required to exercise its jurisdictional responsibilities with respect to the issuance of a lease for the Proposed Project (to be considered at a noticed public meeting). Responsible agencies can use the information in a certified EIR in exercising their jurisdictional or regulatory responsibilities related to the Proposed Project.

The proposed Stagecoach Facilities lease area covers 3,570 acres comprising six undeveloped parcels managed by the CSLC.[1] Within the 3,570-acre area, approximately 1,975 acres would be occupied by the solar panels, ancillary project facilities, and BESS (collectively referred to as the Stagecoach Solar Generation Plant). The Stagecoach Gen-tie Line would run approximately 9.1 miles, connecting the Stagecoach Solar Generation Plant to the Southern California Edison (SCE) Calcite Substation proposed by SCE.

[1] Assessor Parcel Numbers (APNs) 046-430-101, 046-430-102, 046-430-104, 046-430-105, 041-716-254, 041-716-253.



Source: Dudek

Figure ES-1

0 5 10 Miles

Stagecoach Solar Project Region

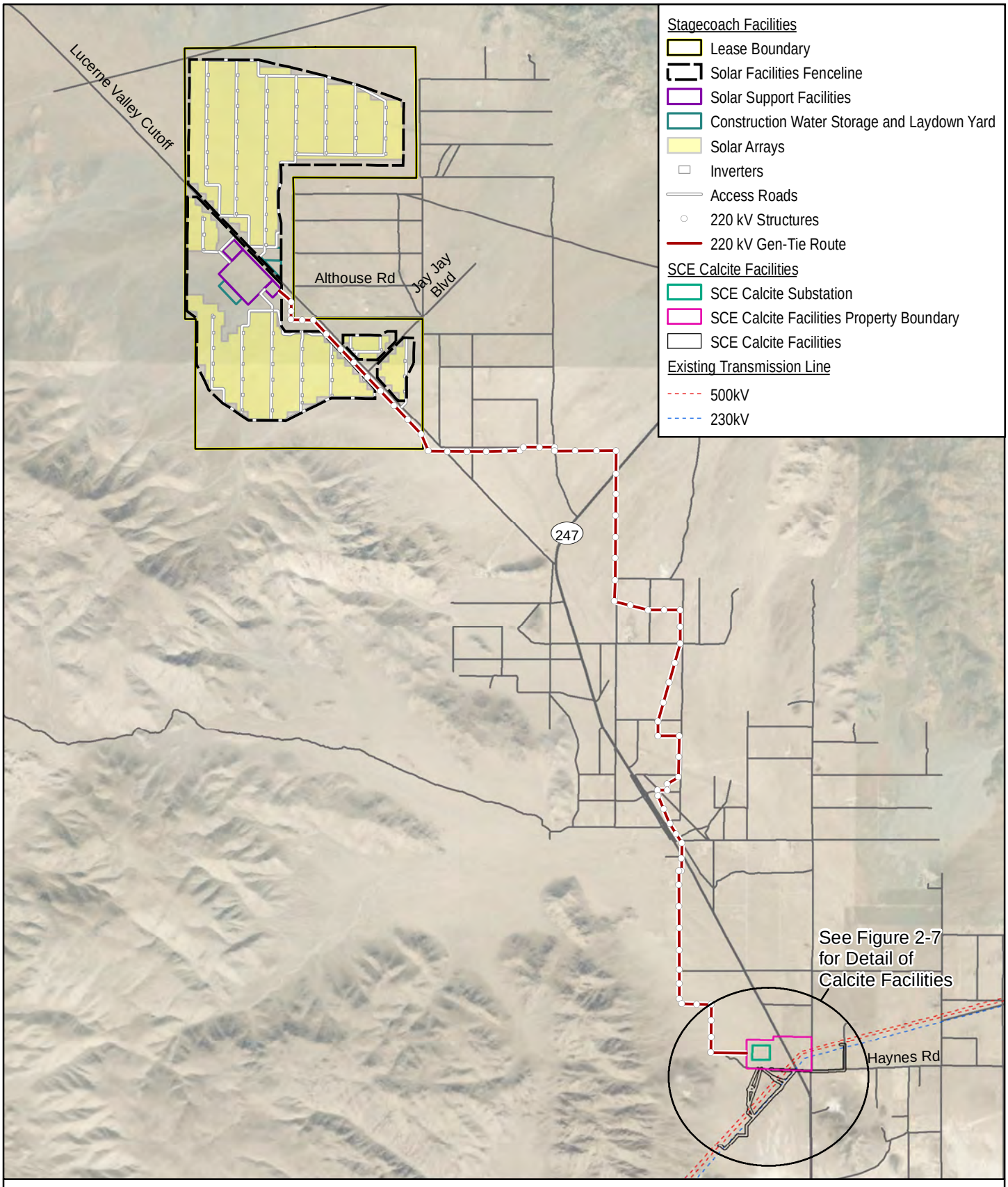


Figure ES-2

Proposed Project (Overview)

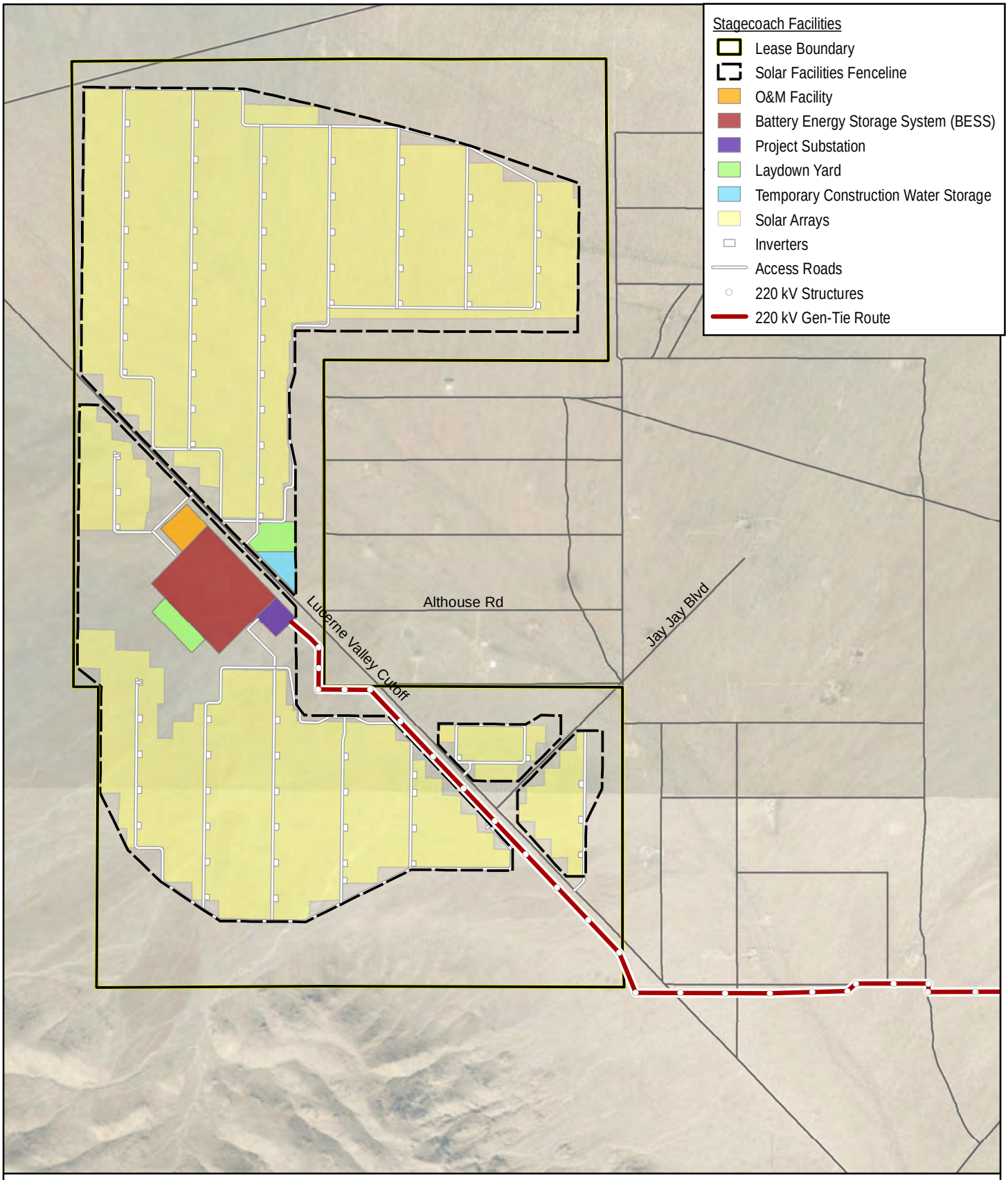


Figure ES-3

Proposed Project (Solar Generation Plant)

This EIR also evaluates the proposed SCE Calcite Facilities that would be used to interconnect electrical generation facilities in the region to the SCE electrical system. It would be designed, constructed, owned, operated, and maintained by SCE and falls under the permitting jurisdiction of the California Public Utilities Commission (CPUC), which would use this EIR to evaluate impacts of the SCE Calcite Facilities. Among other authorizations and approvals, the SCE Calcite Facilities would require a discretionary Permit to Construct from the CPUC. Because this substation is needed to deliver electricity from the Stagecoach Facilities, construction and operation of the proposed SCE Calcite Facilities, including the SCE Calcite Substation and associated interconnection equipment, are considered part of the Proposed Project for purposes of environmental review. The SCE Calcite Facilities are shown on Figure ES-2.

PROPOSED PROJECT DESCRIPTION

Stagecoach Facilities

The Proposed Project would include the following primary components:

- Solar PV modules (also referred to as solar panels) and inverters with generating capacity of up to 200 MW at the point of interconnect
- An underground and overhead 34.5 kV collection system linking the PV modules to the onsite collector substation
- A 5-acre 34.5 kV/220 kV substation within the Stagecoach Solar Generation Plant boundaries
- A 5,000-square-foot operations and maintenance (O&M) facility
- A BESS covering up to 56 acres and with approximately 200-800 MW hours of capacity
- New access roads within the fence line of the Proposed Project area
- New access roads to enter the Proposed Project area
- Fencing and site security systems
- Permanent groundwater wells or an on-site water tank using water transported from off-site for the O&M building and to facilitate washing of the PV modules
- An approximately 9.1-mile-long 220 kV generation intertie transmission line (Stagecoach Gen-tie Line) to interconnect the solar field to the proposed SCE Calcite Substation
- A fiber optic line from the Stagecoach Solar Generation Plant substation to the SCE Calcite Substation within the Stagecoach Gen-tie Line right-of-way (ROW; installed mostly underground, with a few overhead segments on wood poles)

Construction of the Stagecoach Facilities would take approximately 18 months. The operating life of the project is anticipated to be 40 years. Following operation, all facilities would be removed in accordance with a Decommissioning Plan filed with the CSLC.

SCE Calcite Facilities

The proposed SCE Calcite Facilities would be located on and adjacent to an approximately 75-acre parcel that extends on the west and east sides of State Route 247 (SR-247 or Barstow Road), directly north of Haynes Road, in San Bernardino County. The main components of the proposed SCE Calcite Facilities are:

- The SCE Calcite Substation with a 220 kV switchyard on approximately 7 acres along with approximately 4 additional acres for drainage, grading, and an access road
- Transmission structures to loop-in the Lugo-Pisgah No. 1 220 kV transmission line into SCE Calcite Substation adding a total of approximately 5,000 feet of new transmission line (two lines of approximately 2,500 feet located adjacent to one another, creating the Calcite-Lugo and Calcite-Pisgah 220 kV transmission lines)
- Structures to connect the Stagecoach Gen-tie Line into the SCE Calcite Substation
- Approximately 700 feet of 12 kV overhead distribution line and approximately 3,100 feet of underground distribution line (connecting the existing distribution system along Haynes Road to the SCE Calcite Substation) to provide temporary power for construction and permanent substation light and power
- Fiber optic communication cables, equipment, and associated structures for required duplication of communications systems. The telecommunication facilities would include a Remedial Action Scheme, which is a protective system providing rapid automated response to outages and unplanned system events.

SUMMARY OF PROJECT OBJECTIVES, PURPOSE, AND NEED

Aurora Solar's objectives for the Proposed Project are as follows:

- Establish reliable solar PV power-generating facilities in an economically feasible and commercially financeable manner that can be marketed to potential power purchasers
- Assist California utilities in meeting their obligations under California's Renewables Portfolio Standard (RPS). In September 2018, Governor Brown signed Senate Bill (SB) 100 (De León), Chapter 312, Statutes of 2018 (SB 100), which requires California electric utilities to generate at least 60 percent of their power from renewable resources and to mandate that the state obtain 100 percent of its electricity from carbon-free sources by 2045.

- Assist California in meeting greenhouse gas (GHG) emissions reduction goal as required by the California Global Warming Solutions Act (Assembly Bill (AB) 32, Gatto 2014), as amended by SB 32 in 2016, which establishes a target of GHG emissions reductions in the State to be 40 percent of 1990 levels by 2030
- Assist California in transitioning the transportation sector to zero-emission vehicles by 2035 under Executive Order N-79-20, signed by Governor Newsom on September 23, 2020
- Co-locate energy storage facilities of sufficient size and configuration to reliably store electricity in an economically feasible and commercially financeable manner to facilitate the integration of solar energy into the California Independent System Operator (CAISO) transmission grid
- Locate solar power plant and associated energy storage facilities as close as possible to electrical transmission facilities with anticipated capacity and available interconnection to the CAISO transmission grid
- Site the Proposed Project in an area with high solar insolation[2] in order to maximize productivity from the PV technology
- Use proven and available solar PV and energy storage technologies
- Create local short- and long-term employment and business opportunities in the region

SCE has proposed to build the SCE Calcite Facilities in response to an interconnection application from Aurora Solar, LLC.

CSLC MANAGEMENT OF SCHOOL LANDS

The CSLC is responsible for managing and enhancing State-owned School Lands in order to provide revenue for the California State Teachers' Retirement Fund. The CSLC is also required to identify new, sustainable, equitable, and responsible revenue streams, including consideration of project requests for proposals with desired revenue-generating activities like solar, geothermal, wind, and wave energy (CSLC 2021b). The CSLC is also committed to supporting State renewable energy goals. Therefore, the CSLC will review the Proposed Project for its ability to develop school lands into productive resource base that generates revenue (CSLC 2020). The long-term leasing of school lands for solar energy generation creates ongoing income for the California State Teachers' Retirement Fund.

[2] Insolation is a measure of solar radiation energy received on a given surface in a given time. It is commonly expressed as an average irradiance in watts per square meter (W/m2) or kilowatt-hours per square meter per day (kWh/m2/day). The region in which the Project is located receives greater than 5.75 kWh/m2/day of solar radiation energy, giving it a higher degree of solar radiation than most areas within the United States (NREL 2021).

SUMMARY OF ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

This EIR assesses the potentially significant impacts of the Proposed Project on the following environmental issue areas:

- Aesthetics/Light and Glare
- Air Quality
- Biological Resources
- Cultural Resources
- Cultural Resources – Tribal
- Energy
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Noise and Vibration
- Paleontological Resources
- Population and Housing
- Public Services, Utilities, and Service Systems
- Recreation
- Traffic and Transportation
- Wildfire

Impacts within each affected environmental issue area are analyzed in relation to pertinent significance criteria. Impacts are classified as one of five categories.

- **Significant and Unavoidable:** A substantial or potentially substantial adverse change from the environmental baseline that meets or exceeds significance criteria, where either no feasible mitigation can be implemented, or the impact remains significant after implementation of mitigation measures
- **Less than Significant with Mitigation:** A substantial or potentially substantial adverse change from the environmental baseline that can be avoided or reduced to below applicable significance thresholds
- **Less than Significant:** An adverse impact that does not meet or exceed the significance criteria of a particular resource area and, therefore, does not require mitigation
- **Beneficial:** An impact that would result in an improvement to the physical environment relative to baseline conditions
- **No Impact:** A change associated with the Project that would not result in an impact to the physical environment relative to baseline conditions

The analysis in this EIR presents nearly 50 mitigation measures that would reduce the severity of the environmental impacts of the Proposed Project. Mitigation measures (MM) are listed in Table ES-1.

Table ES-1. List of Recommended Mitigation Measures	
MM #	**MM Title**
MM ALG-5	Minimize Night Lighting at Project Facilities
MM ALG-6	Surface Treatment and Design of Project Structures and Buildings
MM AQ-1a	Fugitive Dust Control
MM AQ-1b	Control On-Site Off-Road Equipment Emissions
MM BIO-1a	Implement Biological Monitoring
MM BIO-1b	Implement Worker Environmental Awareness Training
MM BIO-1c	Minimize Impact and Protect Identified Vegetation and Habitat
MM BIO-1d	Weed Management
MM BIO-1e	Revegetation
MM BIO-1f	Protect Important Plants
MM BIO-1g	Compensate for Loss of Natural Habitat
MM BIO-3a	Protect Wildlife Resources
MM BIO-3b	Relocate Special-status Wildlife Species
MM BIO-3c	Protect Desert Tortoise
MM BIO-3d	Protect Desert Kit Fox and American Badger
MM BIO-3e	Avoid Effects on Burrowing Owl
MM BIO-3f	Bird and Bat Protection
MM BIO-3g	Implement Protective Designs for Collector Line and Gen-tie Lines
MM CUL-1a	Retain a Cultural Resources Specialist
MM CUL-1b	Prepare and Implement a Cultural Resources Monitoring Plan
MM CUL-1c	Develop and Implement Cultural Resources Environmental Awareness Training
MM CUL-1d	Archaeological Monitoring
MM CUL-1e	Unanticipated Discoveries
MM CUL-1f	Monitoring Report
MM CUL-1g	Avoidance of Environmentally Sensitive Area
MM CUL-3	Treatment of Human Remains
MM TCR-1a	Tribal Monitoring
MM TCR-1b	Treatment of Cultural Resources
MM GEO-5	Prepare Desert Pavement Assessment
MM GEO-7	Assess Unsuitable Soils
MM HAZ-1	Hazardous Materials Training and Management Plan
MM HAZ-2	Unexploded Ordnance (UXO) Identification, Training, and Reporting Plan

Table ES-1. List of Recommended Mitigation Measures	
MM #	**MM Title**
MM HAZ-3a	Aerially Deposited Lead Testing Program
MM HAZ-3b	Soil and Groundwater Management Plan
MM HAZ-5a	Limit the Conductor Surface Gradient
MM HAZ-5b	Document and Resolve Electronic Interference Complaints
MM HAZ-5c	Implement Grounding Measures
MM HWQ-2	Prepare & Implement Groundwater Monitoring and Reporting Plan (Mitigation for cumulative impact)
MM HWQ-3	Drainage Plan Development
MM NOI-1a	Construction Restrictions
MM NOI-1b	Public Notification Process
MM NOI-1c	Noise Complaint Process
MM NOI-1d	Operational Noise Performance Standard
MM PAL-1a	Paleontological Worker Environmental Awareness Program
MM PAL-1b	Unanticipated Fossil Discovery
MM TRA-1	Construction Traffic Control Plan
MM TRA-3a	Repair Roadways Damaged by Construction Activities
MM TRA-3b	Gen-tie Access Road Design Approval
MM WIL-1	Expand Fire Management and Prevention Plan
SCE Applicant Proposed Measures (APMs) for SCE Calcite Facilities Only (All have been superseded by Biological Resources mitigation measures listed above)	
BIO-GEN-1	Pre-construction biological clearance surveys and monitoring
ENV-GEN-1	Worker's Environmental Awareness Training Program
BIO-AVI-1	Avian-Safe Design
BIO-HERP-1	Desert Tortoise
BIO-MAM-1	Mohave Ground Squirrel

With the implementation of mitigation measures identified in this EIR, most impacts would be reduced to Less than Significant. However, even with implementation of these measures, the Proposed Project would result in the following significant and unavoidable environmental impacts that cannot be mitigated to less than significant levels. Each impact is noted as a short-term (construction) impact or long-term (operational) impact.

<u>Significant and Unavoidable Impacts: Stagecoach Facilities</u>

- **Aesthetics/Light and Glare Impact ALG-2:** Creation of visual contrast due to vegetation removal (long-term impact)

- **Aesthetics/Light and Glare Impact ALG-6:** Long-term presence of the Proposed Project would result in landscape changes that degrade existing visual character or quality (long-term impact)
- **Air Quality Impact AQ-1:** Air pollutant emissions from construction and O&M (short-term construction impact from PM10)
- **Air Quality Impact AQ-3:** Exposure of sensitive receptors to substantial pollutants concentrations (short-term construction impact from criteria air pollutants and toxic air contaminants)
- **Cultural Resources Impact CUL-1:** The Proposed Project (gen-tie line only) could cause a substantial adverse change in the significance of a historical resource pursuant to State California Environmental Quality Act (CEQA) Guidelines[3] section 15064.5 (long-term indirect effect)
- **Energy Impact EN-2:** The Stagecoach Solar Generation Plant and Gen-tie Line would conflict with or obstruct a State or local plan for renewable energy or energy efficiency (County's adopted Renewable Energy and Conservation Element)
- **Land Use and Planning Impact LU-2:** The Stagecoach Solar Generation Plant and Gen-tie Line would conflict with the County's adopted Renewable Energy and Conservation Element
- **Public Services, Utilities, and Service System Impact PSU-1**: The County's population would not increase due to construction and operation of the Stagecoach Facilities, and they would not create the need for new public service facilities. However, emergency response times may be severely inhibited by construction traffic (short-term impact during construction).
- **Traffic and Transportation Impact TRA-1:** Proposed Project traffic volumes, or temporary road or travel lane closures, would substantially affect the circulation system (short-term impact during construction)
- **Traffic and Transportation Impact TRA-4:** Proposed Project activities would affect emergency vehicle response (short-term impact during construction)

<u>Significant and Unavoidable Impacts: SCE Calcite Facilities</u>

- **Aesthetics/Light and Glare Impact ALG-6:** Long-term presence of the Proposed Project would result in landscape changes that degrade existing visual character or quality (long-term impact)
- **Air Quality Impact AQ-1:** Air pollutant emissions from construction and O&M (short-term construction impact from PM10)

[3] The "State CEQA Guidelines" refers to California Code of Regulations, Title 14, Chapter 3.

- **Energy Impact EN-2:** The SCE Calcite Facilities would conflict with or obstruct a State or local plan for renewable energy or energy efficiency (the County's adopted Renewable Energy and Conservation Element)
- **Land Use and Planning Impact LU-2:** The SCE Calcite Facilities would conflict with the County's adopted Renewable Energy and Conservation Element
- **Public Services, Utilities, and Service System Impact PSU-1**: (If constructed concurrently with the Stagecoach Facilities) The County's population would not increase due to construction and operation of the SCE Calcite Facilities, and they would not create the need for new public service facilities. However, emergency response times may be severely inhibited by construction traffic (short-term impact during construction).
- **Traffic and Transportation Impact TRA-1:** (If constructed concurrently with the Stagecoach Facilities) Traffic volumes associated with construction of the SCE Calcite Facilities would substantially affect the circulation system (short-term impact during construction)
- **Traffic and Transportation Impact TRA-4:** (If constructed concurrently with the Stagecoach Facilities) SCE Calcite Facilities construction activities would affect emergency vehicle response (short-term impact during construction)

All Project-related impacts and mitigation measures are summarized in Table ES-2a (Stagecoach Solar Generation Plant and Gen-tie Line) and Table ES-2b (SCE Calcite Facilities) presented at the end of this section. As described in Section 7.0, *Mitigation Monitoring Program,* CSLC staff or CSLC-contracted monitors will monitor all mitigation measures during implementation of the Mitigation Monitoring Program.

SUMMARY OF ALTERNATIVES TO THE PROPOSED PROJECT

CEQA requires identification and evaluation in an EIR of a reasonable range of alternatives to a Proposed Project. Pursuant to State CEQA Guidelines section 15126.6, subdivision (a), an EIR need only consider a reasonable range of feasible alternatives that will foster informed decision-making and public participation; therefore, while an EIR need not consider every conceivable alternative, an EIR must include sufficient information about each alternative to allow meaningful evaluation, analysis, and comparison with the Proposed Project.

The range of potential alternatives considered in this EIR is limited to those that would feasibly attain most of the Proposed Project objectives while avoiding or substantially reducing any of the significant effects of the Proposed Project. Alternatives that were considered but rejected are identified below and accompanied by brief, fact-based explanations of the reasons for rejection. Among the factors that may have been used to eliminate alternatives from detailed consideration, as permitted by CEQA, are: (1) a failure

to meet most of the Proposed Project objectives, (2) infeasibility, and (3) inability to avoid significant impacts (State CEQA Guidelines, § 15126.6, subd. (c)). Alternatives carried forward for analysis in this EIR are summarized below.

- **No Project Alternative:** The Applicant's request for a CSLC lease would not be approved. No solar development would occur on State-owned land, and the gen-tie line would not be constructed. However, the SCE Calcite Facilities could still be constructed if the CPUC determines that the substation has value even in the absence of the Stagecoach Facilities.
- **Joshua Tree Avoidance Alternative:** In this alternative, the Stagecoach Solar Generation Plant would be reconfigured within the same State-owned land boundaries to minimize loss of the western Joshua tree. The Proposed Project would still generate 200 MW of electricity and the gen-tie would be unchanged. The SCE Calcite Facilities would still be constructed.
- **Underground Gen-tie Alternative in County Roads:** This alternative would eliminate the most severe aesthetic impacts of the proposed overhead gen-tie line by installing 6 miles of the gen-tie line underground in unpaved roads, while retaining 2.6 miles of the proposed overhead route. It would interconnect to either the proposed or alternative (see below) SCE Calcite Facilities locations.
- **Underground Gen-tie Alternative Along Proposed Route:** This underground alternative route would follow all or part of the route of the proposed overhead 220 kV gen-tie line. Either the entire 9.1-mile-long route could be installed underground in the right-of-way (ROW) already acquired by the Applicant, or only the most visible northern segment could be installed underground, leaving the southern segment overhead, as proposed.
- **SCE Calcite Facilities Alternative:** An alternative location for the SCE Calcite Facilities would be on an approximately 40-acre property immediately northwest of the proposed substation site property. The alternative substation location would be similar in design to the proposed substation but would be approximately 1,000 feet northwest of the proposed site. The 220 kV lines connecting with the existing Lugo-Pisgah corridor would be about 2,600 feet longer than those required for the proposed site.

ALTERNATIVES NOT CONSIDERED FOR FULL EVALUATION

Several alternatives were considered but were determined to be infeasible, did not clearly offer the potential to reduce significant environmental impacts, or did not achieve most of the Proposed Project objectives. These alternatives were eliminated from further evaluation in the EIR and include the following (refer to Section 5.3 for explanation):

- San Bernardino County Areas of Trona, El Mirage, Amboy, Hinkley, Kramer Junction: Each area was evaluated for access to transmission, proximity to

residential areas, appropriate zoning or Bureau of Land Management (BLM) land designations, and other environmental concerns. The primary reasons for elimination are:

  - Trona: New 30-mile transmission line is required
  - El Mirage: BLM land designated for off-road vehicle use would be inconsistent with solar development and availability of private land is not known
  - Amboy: New transmission line would be required within National Monument, Congressionally designated Wilderness, or Mojave National Preserve
  - Hinkley: BLM Development Focus Areas are too small for 200 MW of solar facilities and availability of private land is not known
  - Kramer Junction: BLM cannot currently accept development applications due to Mohave ground squirrel protection requirements

- BLM Land Exchange: Infeasible due to lengthy agency processes with uncertain conclusions
- Overhead Gen-tie on BLM Land Alternative: Infeasible due to BLM land designations that prohibit new transmission rights-of-way
- SR-247 Underground Gen-tie Alternative: Infeasible because rights would have to be obtained from Caltrans and all other landowners, which is unlikely

COMPARISON OF PROPOSED PROJECT AND ALTERNATIVES AND ENVIRONMENTALLY SUPERIOR ALTERNATIVE

The State CEQA Guidelines require the consideration of a “no project” alternative and to identify, under specific criteria, an “environmentally superior” alternative. If the environmentally superior alternative is determined to be the no project alternative, the EIR must identify an environmentally superior alternative among the other alternatives (State CEQA Guidelines, § 15126.6, subd. (e)(2)). Three tables (presented at the end of this section) compare the Proposed Project impacts with those of the alternatives:

- Table ES-3a summarizes the comparison of the impacts of the proposed Stagecoach Solar Generation Plant with two alternatives
- Table ES-3b summarizes the comparison of the impacts of the proposed Stagecoach Gen-tie Line with three alternatives
- Table ES-3c summarizes the comparison of the proposed SCE Calcite Facilities with two alternatives

For a more detailed comparison of the Proposed Project and alternatives, see Section 6.6, *Comparison of Proposed Project and Alternatives and Environmentally Superior Alternative*. The alternatives are evaluated at a lesser level of detail but with sufficient

information to allow meaningful evaluation, analysis, and comparison to the Proposed Project, consistent with CEQA's requirements (State CEQA Guidelines, § 15126.6, subd. (d)).

Based on the analysis contained within this EIR, the CSLC has determined that the No Project Alternative would be environmentally superior for the solar generation plant, the gen-tie line, and the SCE Calcite Facilities, as it would avoid all direct impacts on the desert environment. However, the No Project Alternative would not support State goals of reducing greenhouse gas emissions from power generation using fossil fuels.

CEQA requires that if the No Project Alternative is environmentally superior, the lead agency should also define the alternative with the next best environmental preference. That preference is presented in Sections ES.7.1 through ES.7.3. The comparisons of alternatives for the solar generation plant, the gen-tie line, and the SCE Calcite Facilities are presented separately in those sections.

Chapter 4 of this EIR defines a wide range of impacts, including a number of significant and unavoidable impacts that cannot be avoided by the Proposed Project or the other alternatives. The No Project Alternative would avoid impacts from the construction, operation, maintenance, and decommissioning of the Proposed Project. However, the No Project Alternative would not realize the beneficial impacts of the Proposed Project relating to reduction of long-term air quality and greenhouse gas emissions through the use of renewable energy generation and replacement of fossil fuel generation. The No Project Alternative does not have the potential to meet any of the Project objectives.

Among the other alternatives for each project component, the Environmentally Superior Alternatives are as follows:

- For the solar generation plant, the Joshua Tree Avoidance Alternative would have reduced impacts in comparison with the Proposed Project
- For the gen-tie line, the Underground Gen-tie Alternative in County Roads would have the fewest impacts overall, primarily by eliminating the most severe aesthetics impacts of the gen-tie line and by using existing disturbed rights-of-way
- The SCE Calcite Facilities Alternative site is preferred over the proposed location due to its somewhat less visible location

Solar Generation Plant Alternatives

The impacts of the solar generation plant alternatives (Proposed Project and Joshua Tree Avoidance Alternative) are summarized in Table ES-3a. The identification of the Environmentally Superior Alternative is difficult because each alternative presents environmental trade-offs. All would result in similar impacts to air quality resulting from construction vehicles and dust, but other impacts are summarized as follows:

- The **Proposed Project** would create significant impacts in aesthetics and transportation/traffic. The project lease boundaries include approximately 578 Joshua trees, and the proposed footprint would affect over 100 acres of Joshua tree woodland, resulting in the loss of approximately 398 Joshua trees. Mitigation for this impact would result in permanent conservation of Joshua trees in other locations. While construction noise impacts would be less than significant with recommended mitigation, there are approximately 11 residences within 1,000 feet of the State lease boundary.
- The **Joshua Tree Avoidance Alternative** would be within the same State-managed land lease boundary but would be configured differently. This alternative would create similar impacts to aesthetics, transportation/traffic, and nearby residences as the Proposed Project. This design would reduce the loss of western Joshua trees by about 80 percent compared with the Proposed Project (resulting in a loss of approximately 160 Joshua trees, 238 fewer than the Proposed Project). Impacts to nearby residences would be very similar to those of the Proposed Project.

Gen-tie Line Alternatives

The impacts of the gen-tie line alternatives (Proposed Project, Underground Gen-tie Alternative in County Roads, and Underground Gen-tie Alternative Along Proposed Route) are summarized in Table ES-3b. As with the solar generation plant, each alternative presents environmental trade-offs. All gen-tie alternatives would contribute to significant construction traffic impacts. Most other impacts would also be similar to impacts of the proposed gen-tie line, but impacts with important differences are summarized as follows:

- The **Proposed Stagecoach Gen-tie Line** would create significant and unavoidable impacts to aesthetics due to the installation of a highly visible high voltage transmission line in the mostly undeveloped Lucerne Valley area. The line would cross SR-247 twice and would wind through low density residential areas east of the highway. It would also require construction of a new 9-mile access road.
- The **Underground Gen-tie Alternative in County Roads** would eliminate 6 miles of highly visible overhead transmission line between the solar generation plant and the SCE Calcite Substation. It would increase construction activity and ground disturbance along its route, affecting nearby residences. Impacts to biological and cultural resources may be less severe than the Proposed Project because it would require construction of a new access road, and this alternative would be installed underground in unpaved roads, most of which have already been graded. Installation cost would be much greater, and maintenance of an underground gen-tie line would be more difficult due to the limited access to the buried conductors.

- The **Underground Gen-tie Alternative Along Proposed Route** would eliminate either a portion, or all of the 9 miles of highly visible overhead line between the solar generation plant and the SCE Calcite Substation, following the path of the Applicant's private land gen-tie. Like the County roads alternative described above, the alternative would have greater construction impacts to nearby residents. It would require greater construction disturbance in undisturbed lands because it would not be installed below existing unpaved roads. Installation cost would be even greater than the Underground Gen-tie Alternative in County Roads due to the additional length. Maintenance of an underground gen-tie line is more difficult due to the limited access to the buried conductors.

SCE Calcite Facilities Alternative

The impacts of the SCE Calcite Facilities alternatives (Proposed Project, SCE Calcite Facilities Alternative) are summarized in Table ES-3c. The two sites are very similar, but the impact with the most notable difference is summarized as follows:

- The **Proposed SCE Calcite Substation** would be nearly adjacent to SR-247, in a currently undeveloped area about 1,000 feet north of the existing Lugo-Pisgah transmission corridor. The aesthetic impact of this facility would be significant and unavoidable.
- The **SCE Calcite Facilities Alternative** substation site is farther from SR-247. The aesthetic impact would also be significant, but, given the greater distance from the highway and the backdrop of the Granite Mountains, its visual impact would be less than that of the proposed site. Other impacts would be very similar to those of the proposed site.

KNOWN AREAS OF CONTROVERSY OR UNRESOLVED ISSUES

State CEQA Guidelines section 15123, subdivision (b)(2) requires EIRs to contain a brief summary of areas of known controversy including issues raised by agencies and the public. The public has expressed a wide range of concerns about the proposed Stagecoach Facilities and the SCE Calcite Facilities. During public scoping for the Proposed Project, Agencies and the public defined the following major concerns:

- San Bernardino County's Renewable Energy and Conservation Element of the General Plan (2020 County Policy Plan) would not permit this solar project if it were on private land
- The Proposed Project would impact desert tortoise (*Gopherus agassizii)* and other sensitive species. The undeveloped site is in a natural condition and occupied with desert tortoise and other sensitive species. The Proposed Project would result in loss of habitat and potentially death or injury to sensitive wildlife due to construction and operation vehicles.

- The Proposed Project may block wildlife movement corridors. The Proposed Project would block a portion of defined movement corridors for desert tortoise and other wildlife.
- Construction of the SCE Calcite Facilities could induce other growth in the area. The construction of the SCE Calcite Facilities could facilitate other future projects because the cost of the substation itself would have been paid by the Stagecoach developers.
- The Proposed Project would impact scenic views along SR-247, a State-Eligible Scenic Highway and County-Designated Scenic Highway
- Environmental justice is a concern in this lower income community, so it should be analyzed in detail
- The Apple Valley Multi-Species Habitat Conservation Plan is being prepared and the Proposed Project would conflict with its goals
- Ground disturbance would result in windblown dust and soil erosion. Uncontrolled dust could expose people to Valley Fever spores.
- Availability of groundwater is constrained, and the Proposed Project would require a large amount of water for dust control
- Greenhouse gas emissions from the Proposed Project could result from conversion of land from open space and vehicle emissions

Appendix C, *Index to Public Scoping Comments*, identifies concerns raised during the EIR scoping period, which include potential effects to the desert environment, effects on biological resources, and impacts related to environmental justice, noise, and dust.

ORGANIZATION OF THE EIR

The EIR is presented in nine sections:

- **Section 1.0 – Introduction** provides background on the Proposed Project and the CEQA process
- **Section 2.0 – Project Description** describes the proposed lease area, Proposed Project elements and activities, and schedule
- **Section 3.0 – Cumulative Projects** identifies the projects that are analyzed for potential cumulative effects and the EIR's approach to cumulative impact analysis
- **Section 4.0 – Environmental Impact Analysis** describes existing environmental conditions, Proposed Project-specific impacts, mitigation measures, and residual effects for individual environmental issue areas, and evaluates cumulative impacts

- **Section 5.0 – Project Alternatives Analysis** describes the alternatives screening methodology, alternatives rejected from full consideration, and alternatives carried forward for analysis and the impacts of those alternatives
- **Section 6.0 – Other Required CEQA Sections and Environmentally Superior Alternative** addresses other required CEQA elements, including significant and irreversible environmental and growth-inducing impacts, comparison of the Proposed Project and alternatives, and identification of the environmentally superior alternative
- **Section 7.0 – Mitigation Monitoring Program** describes the monitoring authority, enforcement and mitigation compliance responsibilities, and general monitoring procedures, and presents the mitigation monitoring table
- **Section 8.0 – Environmental Justice** describes existing conditions and Project-related effects related to environmental justice
- **Section 9.0 – Report Preparation Sources and References** lists the persons involved in preparation of the EIR and the reference materials used

The following nine appendices are provided:

- **Appendix A** contains an abridged list of major federal and state laws, regulations, and policies potentially applicable to the Proposed Project organized by issue area
- **Appendix B** contains the Draft EIR distribution list
- **Appendix C** includes scoping information, including a copy of the Notice of Preparation (NOP), comment letters received in response to the NOP, scoping hearing transcripts, and an index to where each NOP comment is addressed in the Draft EIR
- **Appendix D** contains the Stagecoach Water Supply Assessment
- **Appendix E** presents the detailed description of the SCE Calcite Facilities
- **Appendix F** contains the Biological Resources Technical Report (with attachments including Preliminary Jurisdictional Delineation Report, Mohave Ground Squirrel Habitat Assessment, Golden Eagle Habitat Assessment, Joshua Tree inventory summary memo). This appendix also includes the biological resources information related to the SCE Calcite Facilities.
- **Appendix G** includes the public version of the Cultural Resources Technical Report (confidential appendices are omitted)
- **Appendix H** includes the Air Quality and Greenhouse Gas Emissions Calculations
- **Appendix I** presents calculations for Noise impacts

Summary Tables following this page include**:**

- **Table ES-2a:** Summary of Impacts and Mitigation: Proposed Stagecoach Facilities

- **Table ES-2b:** Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities
- **Table ES-3a:** Summary of Impacts: Proposed Project and Alternatives – Solar Generation Plant Only
- **Table ES-3b:** Summary of Impacts: Proposed Project and Alternatives – Gen-tie Line Only
- **Table ES-3c:** Summary of Impacts: Proposed Project and Alternatives – SCE Calcite Facilities Only

Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.1 AESTHETICS		
Impact ALG-1: Introduction of visually discordant construction equipment, vehicles, materials, and workforce	**LTSM**	**MM AQ-1a:** Fugitive Dust Control **MM TRA-1:** Construction Traffic Control Plan
Impact ALG-2: Creation of visual contrast due to vegetation removal	**SU**	**MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1e:** Revegetation
Impact ALG-3: Creation of visual contrast associated with the marking of natural features	**LTSM**	**MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat
Impact ALG-4: Creation of visual contrast associated with fugitive dust, waste, and trash	**LTSM**	**MM AQ-1a:** Fugitive Dust Control **MM BIO-3a:** Protect Wildlife Resources
Impact ALG-5: Creation of new sources of substantial light or glare such as nighttime illumination	**LTSM**	**MM ALG-5:** Minimize Night Lighting at Project Facilities
Impact ALG-6 (Solar Generation Plant): Long-term presence of the Project would result in landscape changes that degrade existing visual character or quality	**SU**	**MM ALG-6:** Surface Treatment and Design of Project Structures and Buildings **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1e:** Revegetation
Impact ALG-6 (Gen-tie Line): Long-term presence of the Stagecoach Gen-tie Line would result in landscape changes that degrade existing visual character or quality	**SU**	**MM ALG-6:** Surface Treatment and Design of Project Structures and Buildings

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.2 AIR QUALITY		
Impact AQ-1: Air pollutant emissions from construction and O&M	**SU**	**MM AQ-1a:** Fugitive Dust Control **MM AQ-1b:** Control On-Site Off-Road Equipment Emissions
Impact AQ-2: Consistency with regional air quality plans	**LTSM**	**MM AQ-1a:** Fugitive Dust Control **MM AQ-1b:** Control On-Site Off-Road Equipment Emissions
Impact AQ-3 (Solar Generation Plant): Exposure of sensitive receptors to substantial pollutant concentrations	**SU**	**MM AQ-1a:** Fugitive Dust Control **MM AQ-1b:** Control On-Site Off-Road Equipment Emissions
Impact AQ-3 (Gen-tie Line): Exposure of sensitive receptors to substantial pollutant concentrations	**LTSM**	**MM AQ-1a:** Fugitive Dust Control **MM AQ-1b:** Control On-Site Off-Road Equipment Emissions
Impact AQ-4: Creation of objectionable odors affecting a substantial number of people	**LTS**	No mitigation required

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.3 BIOLOGICAL RESOURCES		
Impact BIO-1: Substantially reduce habitat for a fish or wildlife species	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1f:** Protect Important Plants **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM HAZ-1:** Hazardous Materials Training and Management Plan
Impact BIO-2 (Solar Generation Plant): Substantially affect state or federally listed threatened or endangered plants, California Rare Plant Rank 1 or 2 plants, or locally significant populations of other non-listed special-status plants by causing take of a listed species or degrading occupied habitat or designated critical habitat, or substantially reduce the number or restrict the range of a listed species	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1f:** Protect Important Plants **MM BIO-1g:** Compensate for Loss of Natural Habitat

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-2 (Gen-tie Line): Substantially affect state or federally listed threatened or endangered plants, California Rare Plant Rank 1 or 2 plants, or locally significant populations of other non-listed special-status plants by causing take of a listed species or degrading occupied habitat or designated critical habitat, or substantially reduce the number or restrict the range of a listed species	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1g:** Compensate for Loss of Natural Habitat

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-3 (Solar Generation Plant): Substantially affect state fully protected wildlife species, state or federally listed threatened or endangered wildlife, California Species of Special Concern, or state ranked S1, S2, or S3 special-status wildlife by causing take or degrading occupied habitat or designated critical habitat, or substantially reduce the number or restrict the range of a listed species or cause the local population to drop below self-sustaining levels	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1f:** Protect Important Plants **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM BIO-3a:** Protect Wildlife Resources **MM BIO-3b:** Relocate Special-status Wildlife Species **MM BIO-3c:** Protect Desert Tortoise **MM BIO-3d:** Protect Desert Kit Fox and American Badger **MM BIO-3e:** Avoid Effects on Burrowing Owl **MM BIO-3f:** Bird and Bat Protection **MM BIO-3g:** Implement Protective Designs for Collector Line and Gen-tie Lines **MM NOI-1a:** Construction Restrictions **MM ALG-5:** Minimize Night Lighting at Project Facilities **MM TRA-1:** Construction Traffic Control Plan

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-3 (Gen-tie Line): Substantially affect state fully protected wildlife species, state or federally listed threatened or endangered wildlife, California Species of Special Concern, or state ranked S1, S2, or S3 special-status wildlife by causing take or degrading occupied habitat or designated critical habitat, or substantially reduce the number or restrict the range of a listed species or cause the local population to drop below self-sustaining levels	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM BIO-3a:** Protect Wildlife Resources **MM BIO-3b:** Relocate Special-status Wildlife Species **MM BIO-3c:** Protect Desert Tortoise **MM BIO-3d:** Protect Desert Kit Fox and American Badger **MM BIO-3e:** Avoid Effects on Burrowing Owl **MM BIO-3f:** Bird and Bat Protection **MM BIO-3g:** Implement Protective Designs for Collector Line and Gen-tie Lines **MM NOI-1a:** Construction Restrictions **MM ALG-5:** Minimize Night Lighting at Project Facilities **MM TRA-1:** Construction Traffic Control Plan

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-4 (Solar Generation Plant): Cause take of protected nesting birds, including nestlings or eggs, through direct impacts to the nest or substantial nearby disturbance which could cause nest abandonment	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1f:** Protect Important Plants **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM BIO-3a:** Protect Wildlife Resources **MM BIO-3b:** Relocate Special-status Wildlife Species **MM BIO-3e:** Avoid Effects on Burrowing Owl **MM BIO-3f:** Bird and Bat Protection **MM BIO-3g:** Implement Protective Designs for Collector Line and Gen-tie Lines

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-4 (Gen-tie Line): Cause take of protected nesting birds, including nestlings or eggs, through direct impacts to the nest or substantial nearby disturbance which could cause nest abandonment	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM BIO-3a:** Protect Wildlife Resources **MM BIO-3b:** Relocate Special-status Wildlife Species **MM BIO-3e:** Avoid Effects on Burrowing Owl **MM BIO-3f:** Bird and Bat Protection **MM BIO-3g:** Implement Protective Designs for Collector Line and Gen-tie Lines
Impact BIO-5: Create a substantial collision and electrocution risk for birds or bats	**LTSM**	**MM BIO-3f:** Bird and Bat Protection **MM BIO-3g:** Implement Protective Designs for Collector Line and Gen-tie Lines

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-6 (Solar Generation Plant): Remove or degrade substantial acreage of riparian vegetation or sensitive vegetation communities identified as S1, S2, or S3, such that the community could be eliminated or its structure or function in the vicinity of the project would be substantially affected	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1f:** Protect Important Plants **MM BIO-1g:** Compensate for Loss of Natural Habitat
Impact BIO-6 (Gen-tie Line): Remove or degrade substantial acreage of riparian vegetation or sensitive vegetation communities identified as S1, S2, or S3, such that the community could be eliminated or its structure or function in the vicinity of the project would be substantially affected	**NI**	No mitigation required

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-7 (Solar Generation Plant): Substantially impact jurisdictional wetlands or waters of the U.S. or waters of the state such that ecological structure or function of jurisdictional features in the vicinity of the project would be substantially affected	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1f:** Protect Important Plants **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM BIO-7a:** Protect Streambeds and Watersheds **MM HAZ-1:** Hazardous Materials Training and Management Plan

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-7 (Gen-tie Line): Substantially impact jurisdictional wetlands or waters of the U.S. or waters of the state such that ecological structure or function of jurisdictional features in the vicinity of the project would be substantially affected	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM BIO-7a:** Protect Streambeds and Watersheds **MM HAZ-1:** Hazardous Materials Training and Management Plan

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-8 (Solar Generation Plant): Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1f:** Protect Important Plants **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM BIO-3a:** Protect Wildlife Resources **MM BIO-3c:** Protect Desert Tortoise **MM BIO-3f:** Bird and Bat Protection **MM BIO-3g:** Implement Protective Designs for Collector Line and Gen-tie Lines

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-8 (Gen-tie Line): Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM BIO-3a:** Protect Wildlife Resources **MM BIO-3c:** Protect Desert Tortoise **MM BIO-3f:** Bird and Bat Protection **MM BIO-3g:** Implement Protective Designs for Collector Line and Gen-tie Lines

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-9: Conflict with local policies or ordinances protecting biological resources	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1f:** Protect Important Plants **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM BIO-3a:** Protect Wildlife Resources **MM BIO-3c:** Protect Desert Tortoise **MM BIO-3f:** Bird and Bat Protection **MM BIO-3g:** Implement Protective Designs for Collector Line and Gen-tie Lines **MM BIO-7a:** Protect Streambeds and Watersheds
Impact BIO-10: Conflict with provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State habitat conservation plan	**NI**	No mitigation required

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.4 CULTURAL RESOURCES		
Impact CUL-1 (Solar Generation Plant): The Project could cause a substantial adverse change in the significance of a historical resource pursuant to State CEQA Guidelines, section 15064.5	**LTSM**	**MM CUL-1a:** Retain a Cultural Resources Specialist **MM CUL-1b:** Prepare and Implement a Cultural Resources Monitoring Plan **MM CUL-1c:** Develop and Implement Cultural Resources Environmental Awareness Training **MM CUL-1d:** Archaeological Monitoring **MM CUL-1e:** Unanticipated Discovery **MM CUL-1f:** Monitoring Report **MM TCR-1a:** Tribal Monitoring **MM TCR-1b:** Treatment of Cultural Resources
Impact CUL-1 (Gen-tie Line): The Project could cause a substantial adverse change in the significance of a historical resource pursuant to State CEQA Guidelines, section 15064.5	**SU**	**MM CUL-1a:** Retain a Cultural Resources Specialist **MM CUL-1b:** Prepare and Implement a Cultural Resources Monitoring Plan **MM CUL-1c:** Develop and Implement Cultural Resources Environmental Awareness Training **MM CUL-1d:** Archaeological Monitoring **MM CUL-1e:** Unanticipated Discovery **MM CUL-1f:** Monitoring Report **MM TCR-1a:** Tribal Monitoring **MM TCR-1b:** Treatment of Cultural Resources

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact CUL-2: The Project could cause a substantial adverse change in the significance of a unique archaeological resource pursuant to State CEQA Guidelines, section 15064.5	**LTSM**	**MM CUL-1a:** Retain a Cultural Resources Specialist **MM CUL-1b:** Prepare and Implement a Cultural Resources Monitoring Plan **MM CUL-1c:** Develop and Implement Cultural Resources Environmental Awareness Training **MM CUL-1d:** Archaeological Monitoring **MM CUL-1e:** Unanticipated Discovery **MM CUL-1f:** Monitoring Report **MM TCR-1a:** Tribal Monitoring **MM TCR-1b:** Treatment of Cultural Resources
Impact CUL-3: The Project could disturb human remains, including those interred outside of formal cemeteries	**LTSM**	**MM CUL-3:** Treatment of Human Remains

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.5 CULTURAL RESOURCES – TRIBAL		
Impact TCR-1 (Solar Generation Plant): Change the Significance of a Tribal Cultural Resource, as defined in Public Resources Code section 21074, that is either eligible for or listed in the California Register of Historic Resources or in a local register or is determined by the lead agency to be significant	**LTSM**	**MM TCR-1a:** Tribal Monitoring **MM TCR-1b:** Treatment of Cultural Resources **MM CUL-1a:** Retain a Cultural Resources Specialist **MM CUL-1b:** Prepare and Implement a Cultural Resources Monitoring Plan **MM CUL-1c:** Develop and Implement Cultural Resources Environmental Awareness Training **MM CUL-1d:** Archaeological Monitoring **MM CUL-1e:** Unanticipated Discovery **MM CUL-1f:** Monitoring Report **MM CUL-3:** Treatment of Human Remains

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact TCR-1 (Gen-tie Line): Change the Significance of a Tribal Cultural Resource, as defined in Public Resources Code section 21074, that is either eligible for or listed in the California Register of Historic Resources or in a local register or is determined by the lead agency to be significant	**LTSM**	**MM TCR-1a:** Tribal Monitoring **MM TCR-1b:** Treatment of Tribal Cultural Resources **MM CUL-1a:** Retain a Cultural Resources Specialist **MM CUL-1b:** Prepare and Implement a Cultural Resources Monitoring Plan **MM CUL-1c:** Develop and Implement Cultural Resources Environmental Awareness Training **MM CUL-1d:** Archaeological Monitoring **MM CUL-1e:** Unanticipated Discovery **MM CUL-1f:** Monitoring Report **MM CUL-3:** Treatment of Human Remains
SECTION 4.6 ENERGY		
Impact EN-1: Wasteful, inefficient, or unnecessary consumption of energy resources during construction or operation and maintenance	**LTS**	Mitigation is not required but the following measures would be beneficial in improving efficiency of energy use: **MM AQ-1b:** Control On-Site Off-Road Equipment Emissions **MM TRA-1:** Construction Traffic Control Plan
Impact EN-2: Conflict with or obstruct a State or local plan for renewable energy or energy efficiency	**SU**	No mitigation available
SECTION 4.7 GEOLOGY AND SOILS		
Impact GEO-1: Damage or injury from fault rupture	**NI**	No mitigation required

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact GEO-2: Strong earthquake-induced ground shaking could result in damage to project structures and/or injury to people	**LTS**	No mitigation required
Impact GEO-3: Project structures could be damaged by seismically induced liquefaction phenomena	**LTS**	No mitigation required
Impact GEO-4: Seismically induced landslides or slope failures could damage project structures or expose workers to injury	**LTS**	No mitigation required
Impact GEO-5: Construction and operation of the Project could trigger or accelerate soil erosion	**LTSM**	**MM GEO-5:** Prepare Desert Pavement Assessment. **MM AQ-1a:** Fugitive Dust Control **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1e:** Revegetation **MM BIO-1g:** Compensate for Loss of Natural Habitat
Impact GEO-6: Slope failures, such as landslides, could be triggered by project construction	**LTS**	No mitigation required
Impact GEO-7: Unsuitable soils result in damage to project structures	**LTSM**	**MM GEO-7:** Assess Unsuitable Soils
Impact GEO-8: Soils could be incapable of supporting a Septic System	**LTS**	No mitigation required
SECTION 4.8 GREENHOUSE GAS EMISSIONS		
Impact GHG-1: GHG emissions from project activities	**LTS**	No mitigation required

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact GHG-2: Consistency with applicable GHG plan, policy, or regulation	**NI**	No mitigation required
SECTION 4.9 HAZARDS AND HAZARDOUS MATERIALS		
Impact HAZ-1: Spill or release of hazardous materials occurs during construction, operation, or maintenance of the Project	**LTSM**	**MM HAZ-1:** Hazardous Materials Training and Management Plan
Impact HAZ-2: Encountering unexploded ordnance or military munitions and explosives of concern (UXO or MEC)	**LTSM**	**MM HAZ-2:** Unexploded Ordnance (UXO) Identification, Training, and Reporting Plan
Impact HAZ-3: Unknown environmental contamination could be encountered during construction	**LTSM**	**MM HAZ-3a:** Aerially Deposited Lead Testing Program **MM HAZ-3b:** Soil and Groundwater Management Plan
Impact HAZ-4: Valley fever spores could be mobilized	**LTSM**	**MM AQ-1a:** Fugitive Dust Control
Impact HAZ-5 (Gen-tie Line): Gen-tie Line could cause interference with radio, television, communications, or electronic equipment	**LTSM**	**MM HAZ-5a:** Limit the Conductor Surface gradient **MM HAZ-5b:** Document and Resolve Electronic Interference Complaints **MM HAZ-5c:** Implement Grounding Measures
Issue HAZ-6 (Gen-tie Line): Electric and magnetic fields would be increased with presence of the Stagecoach Gen-tie Line	**NI**	Mitigation is not required, but the following is recommended: **Best Management Practice EMF-1:** Low-Cost EMF Reduction

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.10 HYDROLOGY AND WATER QUALITY		
Impact HWQ-1: The Proposed Project would violate water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality	**LTSM**	**MM HAZ-1:** Hazardous Materials Training and Management Plan
Impact HWQ-2: The Proposed Project would substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level	**LTS**	No mitigation required for impacts of Stagecoach Facilities. **MM HWQ-2:** Prepare and Implement Groundwater Monitoring and Reporting Plan (for cumulative impacts only)
Impact HWQ-3 (Solar Generation Plant): The Proposed Project would substantially alter existing drainage patterns by altering the course of a waterway or through the addition of impervious surfaces, allowing substantial erosion, siltation, increased surface runoff on- or off-site, or affecting flood flows.	**LTSM**	**MM HWQ-3:** Drainage Plan Development (not applicable to Stagecoach Gen-tie Line)
Impact HWQ-3 (Gen-tie Line): The Proposed Project would substantially alter existing drainage patterns by altering the course of a waterway or through the addition of impervious surfaces, allowing substantial erosion, siltation, increased surface runoff on- or off-site, or affecting flood flows.	**LTS**	No mitigation required
Impact HWQ-4 (Solar Generation Plant): The Proposed Project would be located in flood hazard zones, resulting in risk of release of pollutants due to site inundation	**LTSM**	**MM HWQ-3:** Drainage Plan Development **MM HAZ-1:** Hazardous Materials Training and Management Plan

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact HWQ-4 (Gen-tie Line): The Proposed Project would be located in flood hazard zones, resulting in risk of release of pollutants due to site inundation	**LTSM**	**MM HAZ-1:** Hazardous Materials Training and Management Plan
Impact HWQ-5: The Proposed Project would conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan	**NI**	No mitigation required
SECTION 4.11 LAND USE AND PLANNING		
Impact LU-1: The Proposed Project would physically divide an established community	**LTS**	No mitigation required
Impact LU-2: The Proposed Project would not cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect	**SU**	No mitigation available
SECTION 4.12 NOISE AND VIBRATION		
Impact NOI-1 (Solar Generation Plant): Construction and operation noise levels in excess of applicable community noise standards	**LTSM**	**MM NOI-1a:** Construction Restrictions **MM NOI-1b:** Public Notification Process **MM NOI-1c:** Noise Complaint Process **MM NOI-1d:** Operational Noise Performance Standard
Impact NOI-1 (Gen-tie Line): Construction and operation noise levels in excess of applicable community noise standards	**LTSM**	**MM NOI-1a:** Construction Restrictions **MM NOI-1b:** Public Notification Process **MM NOI-1c:** Noise Complaint Process
Impact NOI-2: Construction noise impacts in excess of ambient noise levels	**LTSM**	**MM NOI-1a:** Construction Restrictions **MM NOI-1b:** Public Notification Process **MM NOI-1c:** Noise Complaint Process

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact NOI-3 (Solar Generation Plant): Operational noise impacts in excess of ambient noise levels	**LTSM**	**MM NOI-1d:** Operational Noise Performance Standard
Impact NOI-3 (Gen-tie Line): Operational noise impacts in excess of ambient noise levels	**LTS**	No mitigation required
Impact NOI-4: Vibration impacts to sensitive receptors	**LTS**	No mitigation required
SECTION 4.13 PALEONTOLOGICAL RESOURCES		
Impact PAL-1: The Proposed Project could destroy a unique paleontological resource or site	**LTSM**	**MM PAL-1a:** Paleontological Worker Environmental Awareness Program **MM PAL-1b:** Unanticipated Fossil Discovery
SECTION 4.14 POPULATION AND HOUSING		
Impact POP-1: Project construction and operation would induce substantial population growth in an area, either directly or indirectly	**LTS**	No mitigation required
Impact POP-2: Project construction and operation would displace substantial numbers of people or existing housing, necessitating the construction of replacement housing elsewhere	**LTS**	No mitigation required

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.15 PUBLIC SERVICES, UTILITIES, AND SERVICE SYSTEMS		
Impact PSU-1: Project construction and operation would result in adverse physical impacts associated with the provision of or need for new or altered governmental facilities or would inhibit maintenance of acceptable service ratios and response times for public services.	**SU**	**MM TRA-1:** Construction Traffic Control Plan
Impact PSU-2: Project construction and operation would require new or relocated utilities and service systems and/or place demands on local water, wastewater, and solid waste facilities in excess of their capacities	**LTS**	No mitigation required
SECTION 4.16 RECREATION		
Impact REC-1 (Solar Generation Plant): Increase the use of recreational areas such that substantial physical deterioration of the area would occur or be accelerated	**LTSM**	**MM TRA-1:** Construction Traffic Control Plan **MM TRA-3a:** Repair Roadways Damaged by Construction Activities
Impact REC-1 (Gen-tie Line): Increase the use of recreational areas such that substantial physical deterioration of the area would occur or be accelerated	**LTS**	No mitigation required
Impact REC-2 (Solar Generation Plant): Disrupt or prevent access to designated recreational areas or disturb users of recreational resources	**LTSM**	**MM TRA-1:** Construction Traffic Control Plan **MM TRA-3a:** Repair Roadways Damaged by Construction Activities
Impact REC-2 (Gen-tie Line): Disrupt or prevent access to designated recreational areas or disturb users of recreational resources	**LTS**	No mitigation required

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Table ES-2a. Summary of Impacts and Mitigation: Proposed Stagecoach Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.17 TRAFFIC AND TRANSPORTATION		
Impact TRA-1: Project traffic volumes, or temporary road or travel lane closures, would substantially affect the circulation system	**SU**	**MM TRA-1:** Construction Traffic Control Plan
Impact TRA-2: Project activities would substantially increase vehicle miles travelled	**LTS**	No mitigation required
Impact TRA-3 (Solar Generation Plant): Project activities or features would substantially increase roadway hazards from roadway damage or incompatible uses	**LTSM**	**MM TRA-1:** Construction Traffic Control Plan **MM TRA-3a:** Repair Roadways Damaged by Construction Activities
Impact TRA-3 (Gen-tie Line): Project activities or features would substantially increase roadway hazards from roadway damage or incompatible uses	**LTSM**	**MM TRA-1:** Construction Traffic Control Plan **MM TRA-3b:** Gen-tie Access Road Design Approval
Impact TRA-4: Project activities requiring temporary road or travel lane closures would affect emergency vehicle response.	**SU**	**MM TRA-1:** Construction Traffic Control Plan
SECTION 4.18 WILDFIRE		
Impact WIL-1: Require the installation or maintenance of 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 increased wildfire risk	**LTSM**	**MM WIL-1:** Expand Fire Management and Prevention Plan
Impact WIL-2: Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires	**LTSM**	**MM WIL-1:** Expand Fire Management and Prevention Plan **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.1 AESTHETICS		
Impact ALG-1: Introduction of visually discordant construction equipment, vehicles, materials, and workforce	**LTSM**	**MM AQ-1a:** Fugitive Dust Control **MM TRA-1:** Construction Traffic Control Plan
Impact ALG-2: Creation of visual contrast due to vegetation removal	**NI**	No mitigation required
Impact ALG-3: Creation of visual contrast associated with the marking of natural features	**LTSM**	**MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat
Impact ALG-4: Creation of visual contrast associated with fugitive dust, waste, and trash	**LTSM**	**MM AQ-1a:** Fugitive Dust Control **MM BIO-3a:** Protect Wildlife Resources
Impact ALG-5: Creation of new sources of substantial light or glare such as nighttime illumination	**LTSM**	**MM ALG-5:** Minimize Night Lighting at Project Facilities
Impact ALG-6: Long-term presence of the Project would result in landscape changes that degrade existing visual character or quality	**SU**	**MM ALG-6:** Surface Treatment and Design of Project Structures and Buildings
SECTION 4.2 AIR QUALITY		
Impact AQ-1: Air pollutant emissions from construction and O&M	**SU**	**MM AQ-1a:** Fugitive Dust Control **MM AQ-1b:** Control On-Site Off-Road Equipment Emissions
Impact AQ-2: Consistency with regional air quality plans	**LTSM**	**MM AQ-1a:** Fugitive Dust Control **MM AQ-1b:** Control On-Site Off-Road Equipment Emissions

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact AQ-3: Exposure of sensitive receptors to substantial pollutant concentrations	**LTSM**	**MM AQ-1a:** Fugitive Dust Control **MM AQ-1b:** Control On-Site Off-Road Equipment Emissions
Impact AQ-4: Creation of objectionable odors affecting a substantial number of people	**LTS**	No mitigation required
SECTION 4.3 BIOLOGICAL RESOURCES		
Impact BIO-1: Substantially reduce habitat for a fish or wildlife species	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1f:** Protect Important Plants **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM HAZ-1**: Hazardous Materials Training and Management

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-2: Substantially affect state or federally listed threatened or endangered plants, California Rare Plant Rank 1 or 2 plants, or locally significant populations of other non-listed special-status plants by causing take of a listed species or degrading occupied habitat or designated critical habitat, or substantially reduce the number or restrict the range of a listed species	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1f:** Protect Important Plants **MM BIO-1g:** Compensate for Loss of Natural Habitat

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-3: Substantially affect state fully protected wildlife species, state or federally listed threatened or endangered wildlife, California Species of Special Concern, or state ranked S1, S2, or S3 special-status wildlife by causing take or degrading occupied habitat or designated critical habitat, or substantially reduce the number or restrict the range of a listed species or cause the local population to drop below self-sustaining levels	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1f:** Protect Important Plants **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM BIO-3a:** Protect Wildlife Resources **MM BIO-3b:** Relocate Special-status Wildlife Species **MM BIO-3c:** Protect Desert Tortoise **MM BIO-3d:** Protect Desert Kit Fox and American Badger **MM BIO-3e:** Avoid Effects on Burrowing Owl **MM BIO-3f:** Bird and Bat Protection **MM BIO-3g:** Implement Protective Designs for Collector Line and Gen-tie Lines **MM NOI-1a:** Construction Restrictions **MM ALG-5:** Minimize Night Lighting at Project Facilities **MM TRA-1:** Construction Traffic Control Plan

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-4: Cause take of protected nesting birds, including nestlings or eggs, through direct impacts to the nest or substantial nearby disturbance which could cause nest abandonment	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO 1f:** Protect Important Plants **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM BIO-3a:** Protect Wildlife Resources **MM BIO-3b:** Relocate Special-status Wildlife Species **MM BIO-3e:** Avoid Effects on Burrowing Owl **MM BIO-3f:** Bird and Bat Protection **MM BIO-3g:** Implement Protective Designs for Collector Line and Gen-tie Lines
Impact BIO-5: Create a substantial collision and electrocution risk for birds or bats	**LTSM**	**MM BIO-3f:** Bird and Bat Protection **MM BIO-3g:** Implement Protective Designs for Collector Line and Gen-tie Lines
Impact BIO-6: Remove or degrade substantial acreage of riparian vegetation or sensitive vegetation communities identified as S1, S2, or S3, such that the community could be eliminated or its structure or function in the vicinity of the project would be substantially affected	**NI**	No mitigation required

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-7: Substantially impact jurisdictional wetlands or waters of the U.S. or waters of the state such that ecological structure or function of jurisdictional features in the vicinity of the project would be substantially affected	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1f:** Protect Important Plants **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM BIO7-a:** Protect Streambeds and Watersheds **MM HAZ-1:** Hazardous Materials Training and Management Plan
Impact BIO-8: Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites	**LTS**	No mitigation required

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact BIO-9: Conflict with local policies or ordinances protecting biological resources	**LTSM**	**MM BIO-1a:** Implement Biological Monitoring **MM BIO-1b:** Implement Worker Environmental Awareness Training **MM BIO-1c:** Minimize Impact and Protect Identified Vegetation and Habitat **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation **MM BIO-1f:** Protect Important Plants **MM BIO-1g:** Compensate for Loss of Natural Habitat **MM BIO-3a:** Protect Wildlife Resources **MM BIO-3c:** Protect Desert Tortoise **MM BIO-3f:** Bird and Bat Protection **MM BIO-3g:** Implement Protective Designs for Collector Line and Gen-tie Lines **MM BIO-7a:** Protect Streambeds and Watersheds
Impact BIO-10: Conflict with provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State habitat conservation plan	**NI**	No mitigation required

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.4 CULTURAL RESOURCES		
Impact CUL-1: The Project could cause a substantial adverse change in the significance of a historical resource pursuant to State CEQA Guidelines, section 15064.5	**LTSM**	**MM CUL-1a:** Retain a Cultural Resources Specialist **MM CUL-1b:** Prepare and Implement a Cultural Resources Monitoring Plan **MM CUL-1c:** Develop and Implement Cultural Resources Environmental Awareness Training **MM CUL-1d:** Archaeological Monitoring **MM CUL-1e:** Unanticipated Discovery **MM CUL-1f:** Monitoring Report **MM CUL-1g:** Avoidance of Environmentally Sensitive Area **MM TCR-1a:** Tribal Monitoring **MM TCR-1b:** Treatment of Tribal Cultural Resources

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact CUL-2: The Project could cause a substantial adverse change in the significance of a unique archaeological resource pursuant to State CEQA Guidelines, section 15064.5	**LTSM**	**MM CUL-1a:** Retain a Cultural Resources Specialist **MM CUL-1b:** Prepare and Implement a Cultural Resources Monitoring Plan **MM CUL-1c:** Develop and Implement Cultural Resources Environmental Awareness Training **MM CUL-1d:** Archaeological Monitoring **MM CUL-1e:** Unanticipated Discovery **MM CUL-1f:** Monitoring Report **MM TCR-1a:** Tribal Monitoring **MM TCR-1b:** Treatment of Tribal Cultural Resources
Impact CUL-3: The Project could disturb human remains, including those interred outside of formal cemeteries	**LTSM**	**MM CUL-3:** Treatment of Human Remains

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.5 CULTURAL RESOURCES – TRIBAL		
Impact TCR-1: Change the Significance of a Tribal Cultural Resource, as defined in Public Resources Code section 21074, that is either eligible for or listed in the California Register of Historic Resources or in a local register or is determined by the lead agency to be significant	**LTSM**	**MM TCR-1a:** Tribal Monitoring **MM TCR-1b:** Treatment of Tribal Cultural Resources **MM CUL-1a:** Retain a Cultural Resources Specialist **MM CUL-1b:** Prepare and Implement a Cultural Resources Monitoring Plan **MM CUL-1c:** Develop and Implement Cultural Resources Environmental Awareness Training **MM CUL-1d:** Archaeological Monitoring **MM CUL-1e:** Unanticipated Discovery **MM CUL-1f:** Monitoring Report **MM CUL-1g:** Avoidance of Environmentally Sensitive Area **MM CUL-3:** Treatment of Human Remains
SECTION 4.6 ENERGY		
Impact EN-1: Wasteful, inefficient, or unnecessary consumption of energy resources during construction or operation and maintenance	**LTS**	Mitigation is not required but the following measures would be beneficial in improving efficiency of energy use: **MM AQ-1b:** Control On-Site Off-Road Equipment Emissions **MM TRA-1:** Construction Traffic Control Plan
Impact EN-2: Conflict with or obstruct a State or local plan for renewable energy or energy efficiency	**SU**	No mitigation available

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.7 GEOLOGY AND SOILS		
Impact GEO-1: Damage or injury from fault rupture	**NI**	No mitigation required
Impact GEO-2: Strong earthquake-induced ground shaking could result in damage to project structures and/or injury to people	**LTS**	No mitigation required
Impact GEO-3: Project structures could be damaged by seismically induced liquefaction phenomena	**LTS**	No mitigation required
Impact GEO-4: Seismically induced landslides or slope failures could damage project structures or expose workers to injury	**NI**	No mitigation required
Impact GEO-5: Construction and operation of the Project could trigger or accelerate soil erosion	**LTSM**	**MM AQ-1a:** Fugitive Dust Control Plan
Impact GEO-6: Slope failures, such as landslides, could be triggered by project construction	**NI**	No mitigation required
Impact GEO-7: Unsuitable soils result in damage to project structures	**LTSM**	**MM GEO-7:** Assess Unsuitable Soils
SECTION 4.8 GREENHOUSE GAS EMISSIONS		
Impact GHG-1: GHG emissions from project activities	**LTS**	No mitigation required
Impact GHG-2: Consistency with applicable GHG plan, policy, or regulation	**LTS**	No mitigation required

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.9 HAZARDS AND HAZARDOUS MATERIALS		
Impact HAZ-1: Spill or release of hazardous materials occurs during construction, operation, or maintenance of the project	**LTSM**	**MM HAZ-1:** Hazardous Materials Training and Management Plan
Impact HAZ-3: Unknown environmental contamination could be encountered during construction	**LTSM**	**MM HAZ-3a:** Aerially Deposited Lead Testing Program **MM HAZ-3b:** Soil and Groundwater Management Plan
Impact HAZ-4: Valley fever spores could be mobilized	**LTSM**	**MM AQ-1a:** Fugitive Dust Control
SECTION 4.10 HYDROLOGY AND WATER QUALITY		
Impact HWQ-1: The Proposed Project would violate water quality standards or waste discharge requirements or otherwise substantially degrade surface or groundwater quality	**LTSM**	**MM HAZ-1:** Hazardous Materials Training and Management Plan
Impact HWQ-2: The Proposed Project would substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level	**LTS**	No mitigation required
Impact HWQ-3: The Proposed Project would substantially alter existing drainage patterns by altering the course of a waterway or through the addition of impervious surfaces, allowing substantial erosion, siltation, increased surface runoff on- or off-site, or affecting flood flows.	**LTSM**	**MM HWQ-3:** Drainage Plan Development

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact HWQ-4: The Proposed Project would be located in flood hazard zones, resulting in risk of release of pollutants due to site inundation	**LTSM**	**MM HWQ-3:** Drainage Plan Development **MM HAZ-1:** Hazardous Materials Training and Management Plan
Impact HWQ-5: The Proposed Project would conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan	**NI**	No mitigation required
SECTION 4.11 LAND USE AND PLANNING		
Impact LU-1: The Proposed Project would physically divide an established community	**LTS**	No mitigation required
Impact LU-2: The Proposed Project would not cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect	**SU**	No mitigation available
SECTION 4.12 NOISE AND VIBRATION		
Impact NOI-1: Construction and operation noise levels in excess of applicable community noise standards	**LTSM**	**MM NOI-1a:** Construction Restrictions **MM NOI-1b:** Public Notification Process **MM NOI-1c:** Noise Complaint Process **MM NOI-1d:** Operational Noise Performance Standard
Impact NOI-2: Construction noise impacts in excess of ambient noise levels	**LTSM**	**MM NOI-1a:** Construction Restrictions **MM NOI-1b:** Public Notification Process **MM NOI-1c:** Noise Complaint Process
Impact NOI-3: Operational noise impacts in excess of ambient noise levels	**LTSM**	**MM NOI-1d:** Operational Noise Performance Standard
Impact NOI-4: Vibration impacts to sensitive receptors	**LTS**	No mitigation required

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Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.13 PALEONTOLOGICAL RESOURCES		
Impact PAL-1: The Proposed Project could destroy a unique paleontological resource or site	**LTSM**	**MM PAL-1a:** Paleontological Worker Environmental Awareness Program **MM PAL-1b:** Unanticipated Fossil Discovery
SECTION 4.14 POPULATION AND HOUSING		
Impact POP-1: Project construction and operation would induce substantial population growth in an area, either directly or indirectly	**NI**	No mitigation required
Impact POP-2: Project construction and operation would displace substantial numbers of people or existing housing, necessitating the construction of replacement housing elsewhere	**NI**	No mitigation required
SECTION 4.15 PUBLIC SERVICES, UTILITIES, AND SERVICE SYSTEMS		
Impact PSU-1: Project construction and operation would result in adverse physical impacts associated with the provision of or need for new or altered governmental facilities or would inhibit maintenance of acceptable service ratios and response times for public services	**SU**	**MM TRA-1:** Construction Traffic Control Plan
Impact PSU-2: Project construction and operation would require new or relocated utilities and service systems and/or place demands on local water, wastewater, and solid waste facilities in excess of their capacities	**LTS**	No mitigation required

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
SECTION 4.16 RECREATION		
Impact REC-1: Increase the use of recreational areas such that substantial physical deterioration of the area would occur or be accelerated	**LTS**	No mitigation required
Impact REC-2: Disrupt or prevent access to designated recreational areas or disturb users of recreational resources	**LTS**	No mitigation required
SECTION 4.17 TRAFFIC AND TRANSPORTATION		
Impact TRA-1: Project traffic volumes, or temporary road or travel lane closures, would substantially affect the circulation system	**SU**	**MM TRA-1:** Construction Traffic Control Plan
Impact TRA-2: Project activities would substantially increase vehicle miles travelled	**LTS**	No mitigation required
Impact TRA-3: Project activities or features would substantially increase roadway hazards from roadway damage or incompatible uses	**LTSM**	**MM TRA-1:** Construction Traffic Control Plan
Impact TRA-4: Project activities requiring temporary road or travel lane closures would affect emergency vehicle response.	**SU**	**MM TRA-1:** Construction Traffic Control Plan
SECTION 4.18 WILDFIRE		
Impact WIL-1: 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 increased wildfire risk.	**LTSM**	**MM WIL-1:** Expand Fire Management and Prevention Plan

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Table ES-2b. Summary of Impacts and Mitigation: Proposed SCE Calcite Facilities		
Impact	**Impact Class[1]**	**Recommended MMs**
Impact WIL-2: Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires	**LTSM**	**MM WIL-1:** Expand Fire Management and Prevention Plan **MM BIO-1d:** Weed Management **MM BIO-1e:** Revegetation

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Table ES-3a. Comparison of Alternatives: Solar Generation Plant			
	Impact Class[1]		
Impact	**Proposed Project**	**No Project Alternative**	**Joshua Tree Avoidance Alternative**
SECTION 4.1 AESTHETICS			
Impact ALG-1: Introduction of visually discordant construction equipment, vehicles, materials, and workforce	**LTSM**	**NI**	**LTSM**
Impact ALG-2: Creation of visual contrast due to vegetation removal	**SU**	**NI**	**SU**
Impact ALG-3: Creation of visual contrast associated with the marking of natural features	**LTSM**	**NI**	**LTSM**
Impact ALG-4: Creation of visual contrast associated with fugitive dust, waste, and trash	**LTSM**	**NI**	**LTSM**
Impact ALG-5: Creation of new sources of substantial light or glare such as nighttime illumination	**LTSM**	**NI**	**LTSM**
Impact ALG-6: Long-term presence of the Project would result in landscape changes that degrade existing visual character or quality	**SU**	**NI**	**SU**
SECTION 4.2 AIR QUALITY			
Impact AQ-1: Air pollutant emissions from construction and O&M	**SU**	**NI**	**SU**
Impact AQ-2: Consistency with regional air quality plans	**LTSM**	**NI**	**LTSM**
Impact AQ-3: Exposure of sensitive receptors to substantial pollutant concentrations	**SU**	**NI**	**SU**
Impact AQ-4: Creation of objectionable odors affecting a substantial number of people	**LTS**	**NI**	**LTS**

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Table ES-3a. Comparison of Alternatives: Solar Generation Plant			
	Impact Class[1]		
Impact	**Proposed Project**	**No Project Alternative**	**Joshua Tree Avoidance Alternative**
SECTION 4.3 BIOLOGICAL RESOURCES			
Impact BIO-1: Substantially reduce habitat for a fish or wildlife species	**LTSM**	**NI**	**LTSM**
Impact BIO-2: Substantially affect state or federally listed threatened or endangered plants, California Rare Plant Rank 1 or 2 plants, or locally significant populations of other non-listed special-status plants by causing take of a listed species or degrading occupied habitat or designated critical habitat, or substantially reduce the number or restrict the range of a listed species	**LTSM**	**NI**	**LTSM (Less than Proposed)**
Impact BIO-3: Substantially affect state fully protected wildlife species, state or federally listed threatened or endangered wildlife, California Species of Special Concern, or state ranked S1, S2, or S3 special-status wildlife by causing take or degrading occupied habitat or designated critical habitat, or substantially reduce the number or restrict the range of a listed species or cause the local population to drop below self-sustaining levels	**LTSM**	**NI**	**LTSM**
Impact BIO-4: Cause take of protected nesting birds, including nestlings or eggs, through direct impacts to the nest or substantial nearby disturbance which could cause nest abandonment	**LTSM**	**NI**	**LTSM**
Impact BIO-5: Create a substantial collision and electrocution risk for birds or bats	**LTSM**	**NI**	**LTSM**

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Table ES-3a. Comparison of Alternatives: Solar Generation Plant			
	Impact Class[1]		
Impact	**Proposed Project**	**No Project Alternative**	**Joshua Tree Avoidance Alternative**
Impact BIO-6: Remove or degrade substantial acreage of riparian vegetation or sensitive vegetation communities identified as S1, S2, or S3, such that the community could be eliminated or its structure or function in the vicinity of the project would be substantially affected	**LTSM**	**NI**	**LTSM**
Impact BIO-7: Substantially impact jurisdictional wetlands or waters of the U.S. or waters of the state such that ecological structure or function of jurisdictional features in the vicinity of the project would be substantially affected	**LTSM**	**NI**	**LTSM**
Impact BIO-8: Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites	**LTSM**	**NI**	**LTSM**
Impact BIO-9: Conflict with local policies or ordinances protecting biological resources	**LTSM**	**NI**	**LTSM**
Impact BIO-10: Conflict with provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State habitat conservation plan	**NI**	**NI**	**NI**
SECTION 4.4 CULTURAL RESOURCES			
Impact CUL-1: The Project could cause a substantial adverse change in the significance of a historical resource pursuant to State CEQA Guidelines, § 15064.5	**LTSM**	**NI**	**LTSM**

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Table ES-3a. Comparison of Alternatives: Solar Generation Plant			
	Impact Class[1]		
Impact	**Proposed Project**	**No Project Alternative**	**Joshua Tree Avoidance Alternative**
Impact CUL-2: The Project could cause a substantial adverse change in the significance of a unique archaeological resource pursuant to State CEQA Guidelines, § 15064.5	**LTSM**	**NI**	**LTSM**
Impact CUL-3: The Project could disturb human remains, including those interred outside of formal cemeteries	**LTSM**	**NI**	**LTSM**
SECTION 4.5 CULTURAL RESOURCES – TRIBAL			
Impact TCR-1: Change the Significance of a Tribal Cultural Resource as defined in Public Resources Code section 21074, that is either eligible for or listed in the California Register of Historical Resources or in a local register or is determined by the lead agency to be significant	**LTSM**	**NI**	**LTSM**
SECTION 4.6 ENERGY			
Impact EN-1: Wasteful, inefficient, or unnecessary consumption of energy resources during construction or operation and maintenance	**LTS**	**NI**	**LTS**
Impact EN-2: Conflict with or obstruct a State or local plan for renewable energy or energy efficiency	**SU**	**NI**	**SU**
SECTION 4.7 GEOLOGY AND SOILS			
Impact GEO-1: Damage or injury from fault rupture	**NI**	**NI**	**NI**
Impact GEO-2: Strong earthquake-induced ground shaking could result in damage to project structures and/or injury to people	**LTS**	**NI**	**LTS**
Impact GEO-3: Project structures could be damaged by seismically induced liquefaction phenomena	**LTS**	**NI**	**LTS**

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Table ES-3a. Comparison of Alternatives: Solar Generation Plant			
	Impact Class[1]		
Impact	**Proposed Project**	**No Project Alternative**	**Joshua Tree Avoidance Alternative**
Impact GEO-4: Seismically induced landslides or slope failures could damage project structures or expose workers to injury	**LTS**	**NI**	**LTS**
Impact GEO-5: Construction and operation of the Project could trigger or accelerate soil erosion	**LTSM**	**NI**	**LTSM**
Impact GEO-6: Slope failures, such as landslides, could be triggered by project construction	**LTS**	**NI**	**LTS**
Impact GEO-7: Unsuitable soils result in damage to project structures	**LTSM**	**NI**	**LTSM**
Impact GEO-8: Soils could be incapable of supporting a Septic System	**LTS**	**NI**	**LTS**
SECTION 4.8 GREENHOUSE GAS EMISSIONS			
Impact GHG-1: GHG emissions from project activities	**LTS**	**NI**	**LTS**
Impact GHG-2: Consistency with applicable GHG plan, policy, or regulation	**NI**	**NI**	**NI**
SECTION 4.9 HAZARDS AND HAZARDOUS MATERIALS			
Impact HAZ-1: Spill or release of hazardous materials occurs during construction, operation, or maintenance of the project	**LTSM**	**NI**	**LTSM**
Impact HAZ-2: Encountering unexploded ordnance or military munitions and explosives of concern (UXO or MEC)	**LTSM**	**NI**	**LTSM**
Impact HAZ-3: Unknown environmental contamination could be encountered during construction	**LTSM**	**NI**	**LTSM**
Impact HAZ-4: Valley fever spores could be mobilized	**LTSM**	**NI**	**LTSM**

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Table ES-3a. Comparison of Alternatives: Solar Generation Plant			
	Impact Class[1]		
Impact	**Proposed Project**	**No Project Alternative**	**Joshua Tree Avoidance Alternative**
SECTION 4.10 HYDROLOGY AND WATER QUALITY			
Impact HWQ-1: The Proposed Project would violate water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality	**LTSM**	**NI**	**LTSM**
Impact HWQ-2: The Proposed Project would substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level	**LTS**	**NI**	**LTS**
Impact HWQ-3: The Proposed Project would substantially alter the existing drainage patterns by altering the course of a stream or waterway or through the addition of impervious surfaces, allowing substantial erosion, siltation, increased surface runoff on- or off-site, or affecting flood flows	**LTSM**	**NI**	**LTSM**
Impact HWQ-4: The Proposed Project would be located in flood hazard zones, resulting in risk of release of pollutants due to site inundation	**LTSM**	**NI**	**LTSM**
Impact HWQ-5: The Proposed Project would conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan	**NI**	**NI**	**NI**
SECTION 4.11 LAND USE AND PLANNING			
Impact LU-1: The Proposed Project would physically divide an established community	**LTS**	**NI**	**LTS**

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Table ES-3a. Comparison of Alternatives: Solar Generation Plant			
	Impact Class[1]		
Impact	**Proposed Project**	**No Project Alternative**	**Joshua Tree Avoidance Alternative**
Impact LU-2: The Proposed Project would not cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect	**SU**	**NI**	**SU**
SECTION 4.12 NOISE AND VIBRATION			
Impact NOI-1: Construction and operation noise levels in excess of applicable community noise standards	**LTSM**	**NI**	**LTSM**
Impact NOI-2: Construction noise impacts in excess of ambient noise levels	**LTSM**	**NI**	**LTSM**
Impact NOI-3: Operational noise impacts in excess of ambient noise levels	**LTSM**	**NI**	**LTSM**
Impact NOI-4: Vibration impacts to sensitive receptors	**LTS**	**NI**	**LTS**
SECTION 4.13 PALEONTOLOGICAL RESOURCES			
Impact PAL-1: The Proposed Project could destroy a unique paleontological resource or sit	**LTSM**	**NI**	**LTSM**
SECTION 4.14 POPULATION AND HOUSING			
Impact POP-1: Project construction and operation would induce substantial population growth in an area, either directly or indirectly	**LTS**	**NI**	**LTS**
Impact POP-2: Project construction and operation would displace substantial numbers of people or existing housing, necessitating the construction of replacement housing elsewhere	**LTS**	**NI**	**LTS**

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Table ES-3a. Comparison of Alternatives: Solar Generation Plant			
	Impact Class[1]		
Impact	Proposed Project	No Project Alternative	Joshua Tree Avoidance Alternative
SECTION 4.15 PUBLIC SERVICES, UTILITIES, AND SERVICE SYSTEMS			
Impact PSU-1: Project construction and operation would result in adverse physical impacts associated with the provision of or need for new or altered governmental facilities or would inhibit maintenance of acceptable service ratios and response times for public services	**SU**	**NI**	**SU**
Impact PSU-2: Project construction and operation would require new or relocated utilities and service systems and/or place demands on local water, wastewater, and solid waste facilities in excess of their capacities	**LTS**	**NI**	**LTS**
SECTION 4.16 RECREATION			
Impact REC-1: Increase the use of recreational areas such that substantial physical deterioration of the area would occur or be accelerated	**LTSM**	**NI**	**LTSM**
Impact REC-2: Disrupt or prevent access to designated recreational areas or disturb users of recreational resources	**LTSM**	**NI**	**LTSM**
SECTION 4.17 TRAFFIC AND TRANSPORTATION			
Impact TRA-1: Project traffic volumes, or temporary road or travel lane closures, would substantially affect the circulation system	**SU**	**NI**	**SU**
Impact TRA-2: Project activities would substantially increase vehicle miles travelled	**LTS**	**NI**	**LTS**

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Table ES-3a. Comparison of Alternatives: Solar Generation Plant			
	Impact Class[1]		
Impact	**Proposed Project**	**No Project Alternative**	**Joshua Tree Avoidance Alternative**
Impact TRA-3: Project activities or features would substantially increase roadway hazards from roadway damage or incompatible uses	**LTSM**	**NI**	**LTSM**
Impact TRA-4: Project activities would affect emergency vehicle response	**SU**	**NI**	**SU**
SECTION 4.18 WILDFIRE			
Impact WIL-1: Require the installation or maintenance of 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 increased wildfire risk	**LTSM**	**NI**	**LTSM**
Impact WIL-2: Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires	**LTSM**	**NI**	**LTSM**

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Table ES-3b. Comparison of Alternatives: Gen-tie Line				
	Impact Class[1]			
Impact	**Proposed Gen-tie Line**	**No Project Alternative**	**Under-ground Alternative in County Roads**	**Under-ground Alternative Along Proposed ROW**
SECTION 4.1 AESTHETICS				
Impact ALG-1: Introduction of visually discordant construction equipment, vehicles, materials, and workforce	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact ALG-2: Creation of visual contrast due to vegetation removal	**SU**	**NI**	**SU**	**SU**
Impact ALG-3: Creation of visual contrast associated with the marking of natural features	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact ALG-4: Creation of visual contrast associated with fugitive dust, waste, and trash	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact ALG-5: Creation of new sources of substantial light or glare such as nighttime illumination	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact ALG-6: Long-term presence of the Project would result in landscape changes that degrade existing visual character or quality	**SU**	**NI**	**SU (Less than Proposed)**	**SU (Less than Proposed)**
SECTION 4.2 AIR QUALITY				
Impact AQ-1: Air pollutant emissions from construction and O&M	**SU**	**NI**	**SU (More than Proposed)**	**SU (More than Proposed)**
Impact AQ-2: Consistency with regional air quality plans	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact AQ-3: Exposure of sensitive receptors to substantial pollutant concentrations	**LTSM**	**NI**	**LTSM**	**LTSM**

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Table ES-3b. Comparison of Alternatives: Gen-tie Line				
	Impact Class[1]			
Impact	**Proposed Gen-tie Line**	**No Project Alternative**	**Under-ground Alternative in County Roads**	**Under-ground Alternative Along Proposed ROW**
Impact AQ-4: Creation of objectionable odors affecting a substantial number of people	**LTS**	**NI**	**LTS**	**LTS**
SECTION 4.3 BIOLOGICAL RESOURCES				
Impact BIO-1: Substantially reduce habitat for a fish or wildlife species	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact BIO-2: Substantially affect state or federally listed threatened or endangered plants, California Rare Plant Rank 1 or 2 plants, or locally significant populations of other non-listed special-status plants by causing take of a listed species or degrading occupied habitat or designated critical habitat, or substantially reduce the number or restrict the range of a listed species	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact BIO-3: Substantially affect state fully protected wildlife species, state or federally listed threatened or endangered wildlife, California Species of Special Concern, or state ranked S1, S2, or S3 special-status wildlife by causing take or degrading occupied habitat or designated critical habitat, or substantially reduce the number or restrict the range of a listed species or cause the local population to drop below self-sustaining levels	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact BIO-4: Cause take of protected nesting birds, including nestlings or eggs, through direct impacts to the nest or substantial nearby disturbance which could cause nest abandonment	**LTSM**	**NI**	**LTSM**	**LTSM**

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Table ES-3b. Comparison of Alternatives: Gen-tie Line				
	Impact Class[1]			
Impact	**Proposed Gen-tie Line**	**No Project Alternative**	**Under-ground Alternative in County Roads**	**Under-ground Alternative Along Proposed ROW**
Impact BIO-5: Create a substantial collision and electrocution risk for birds or bats	**LTSM**	**NI**	**LTSM (Less than Proposed)**	**LTSM (Less then Proposed)**
Impact BIO-6: Remove or degrade substantial acreage of riparian vegetation or sensitive vegetation communities identified as S1, S2, or S3, such that the community could be eliminated or its structure or function in the vicinity of the project would be substantially affected	**NI**	**NI**	**NI**	**NI**
Impact BIO-7: Substantially impact jurisdictional wetlands or waters of the U.S. or waters of the state such that ecological structure or function of jurisdictional features in the vicinity of the project would be substantially affected	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact BIO-8: Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites	**LTSM**	**NI**	**LTSM (Less than Proposed)**	**LTSM (Less than Proposed)**
Impact BIO-9: Conflict with local policies or ordinances protecting biological resources	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact BIO-10: Conflict with provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State habitat conservation plan	**NI**	**NI**	**NI**	**NI**

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Table ES-3b. Comparison of Alternatives: Gen-tie Line				
	Impact Class[1]			
Impact	Proposed Gen-tie Line	No Project Alternative	Under-ground Alternative in County Roads	Under-ground Alternative Along Proposed ROW
SECTION 4.4 CULTURAL RESOURCES				
Impact CUL-1: The Project could cause a substantial adverse change in the significance of a historical resource pursuant to State CEQA Guidelines, § 15064.5	**SU**	**NI**	**SU**	**SU**
Impact CUL-2: The Project could cause a substantial adverse change in the significance of a unique archaeological resource pursuant to State CEQA Guidelines, § 15064.5	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact CUL-3: The Project could disturb human remains, including those interred outside of formal cemeteries	**LTSM**	**NI**	**LTSM**	**LTSM**
SECTION 4.5 CULTURAL RESOURCES – TRIBAL				
Impact TCR-1: Change the Significance of a Tribal Cultural Resource, as defined in Public Resources Code section 21074, that is either eligible for or listed in the California Register of Historic Resources or in a local register or is determined by the lead agency to be significant	**LTSM**	**NI**	**LTSM**	**LTSM**
SECTION 4.6 ENERGY				
Impact EN-1: Wasteful, inefficient, or unnecessary consumption of energy resources during construction or operation and maintenance	**LTS**	**NI**	**LTS**	**LTS**
Impact EN-2: Conflict with or obstruct a State or local plan for renewable energy or energy efficiency	**SU**	**NI**	**SU**	**SU**

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Table ES-3b. Comparison of Alternatives: Gen-tie Line				
	Impact Class[1]			
Impact	**Proposed Gen-tie Line**	**No Project Alternative**	**Under-ground Alternative in County Roads**	**Under-ground Alternative Along Proposed ROW**
SECTION 4.7 GEOLOGY AND SOILS				
Impact GEO-1: Damage or injury from fault rupture	**NI**	**NI**	**NI**	**NI**
Impact GEO-2: Strong earthquake-induced ground shaking could result in damage to project structures and/or injury to people	**LTS**	**NI**	**LTS**	**LTS**
Impact GEO-3: Project structures could be damaged by seismically induced liquefaction phenomena	**LTS**	**NI**	**LTS**	**LTS**
Impact GEO-4: Seismically induced landslides or slope failures could damage project structures or expose workers to injury	**LTS**	**NI**	**LTS**	**LTS**
Impact GEO-5: Construction and operation of the Project could trigger or accelerate soil erosion	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact GEO-6: Slope failures, such as landslides, could be triggered by project construction	**LTS**	**NI**	**LTS**	**LTS**
Impact GEO-7: Unsuitable soils result in damage to project structures	**LTSM**	**NI**	**LTSM**	**LTSM**
SECTION 4.8 GREENHOUSE GAS EMISSIONS				
Impact GHG-1: GHG emissions from project activities	**LTS**	**NI**	**LTS**	**LTS**
Impact GHG-2: Consistency with applicable GHG plan, policy, or regulation	**NI**	**NI**	**NI**	**NI**

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Table ES-3b. Comparison of Alternatives: Gen-tie Line				
	Impact Class[1]			
Impact	**Proposed Gen-tie Line**	**No Project Alternative**	**Under-ground Alternative in County Roads**	**Under-ground Alternative Along Proposed ROW**
SECTION 4.9 HAZARDS AND HAZARDOUS MATERIALS				
Impact HAZ-1: Spill or release of hazardous materials occurs during construction, operation, or maintenance of the project	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact HAZ-2: Encountering unexploded ordnance or military munitions and explosives of concern (UXO or MEC)	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact HAZ-3: Unknown environmental contamination could be encountered during construction	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact HAZ-4: Valley fever spores could be mobilized	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact HAZ-5: Gen-tie Line could cause interference with radio, television, communications, or electronic equipment	**LTSM**	**NI**	**LTSM**	**LTSM**
Issue HAZ-6: Electric and magnetic fields would be increased with presence of the Stagecoach Gen-tie Line	**NI**	**NI**	**NI (Greater)**	**NI (Greater)**
SECTION 4.10 HYDROLOGY AND WATER QUALITY				
Impact HWQ-1: The Proposed Project would violate water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact HWQ-2: The Proposed Project would substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level	**LTS**	**NI**	**LTS**	**LTS**

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Table ES-3b. Comparison of Alternatives: Gen-tie Line				
	Impact Class[1]			
Impact	**Proposed Gen-tie Line**	**No Project Alternative**	**Under-ground Alternative in County Roads**	**Under-ground Alternative Along Proposed ROW**
Impact HWQ-3: The Proposed Project would substantially alter the existing drainage patterns by altering the course of a stream or waterway or through the addition of impervious surfaces, allowing substantial erosion, siltation, increased surface runoff on- or off-site, or affecting flood flows	**LTS**	**NI**	**LTS**	**LTS**
Impact HWQ-4: The Proposed Project would be located in flood hazard zones, resulting in risk of release of pollutants due to site inundation	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact HWQ-5: The Proposed Project would conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan	**NI**	**NI**	**NI**	**NI**
SECTION 4.11 LAND USE AND PLANNING				
Impact LU-1: The Proposed Project would physically divide an established community	**LTS**	**NI**	**LTS**	**LTS**
Impact LU-2: The Proposed Project would not cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect	**SU**	**NI**	**SU**	**SU**
SECTION 4.12 NOISE AND VIBRATION				
Impact NOI-1: Construction and operation noise levels in excess of applicable community noise standards	**LTSM**	**NI**	**LTSM**	**LTSM**

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Table ES-3b. Comparison of Alternatives: Gen-tie Line				
	Impact Class[1]			
Impact	**Proposed Gen-tie Line**	**No Project Alternative**	**Under-ground Alternative in County Roads**	**Under-ground Alternative Along Proposed ROW**
Impact NOI-2: Construction noise impacts in excess of ambient noise levels	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact NOI-3: Operational noise impacts in excess of ambient noise levels	**LTS**	**NI**	**LTS**	**LTS**
Impact NOI-4: Vibration impacts to sensitive receptors	**LTS**	**NI**	**LTS**	**LTS**
SECTION 4.13 PALEONTOLOGICAL RESOURCES				
Impact PAL-1: The Proposed Project could destroy a unique paleontological resource or site	**LTSM**	**NI**	**LTSM**	**LTSM**
SECTION 4.14 POPULATION AND HOUSING				
Impact POP-1: Project construction and operation would induce substantial population growth in an area, either directly or indirectly	**LTS**	**NI**	**LTS**	**LTS**
Impact POP-2: Project construction and operation would displace substantial numbers of people or existing housing, necessitating the construction of replacement housing elsewhere	**LTS**	**NI**	**LTS**	**LTS**

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Table ES-3b. Comparison of Alternatives: Gen-tie Line				
	Impact Class[1]			
Impact	**Proposed Gen-tie Line**	**No Project Alternative**	**Under-ground Alternative in County Roads**	**Under-ground Alternative Along Proposed ROW**
SECTION 4.15 PUBLIC SERVICES, UTILITIES, AND SERVICE SYSTEMS				
Impact PSU-1: Project construction and operation would result in adverse physical impacts associated with the provision of or need for new or altered governmental facilities or would inhibit maintenance of acceptable service ratios and response times for public services	**SU**	**NI**	**SU**	**SU**
Impact PSU-2: Project construction and operation would require new or relocated utilities and service systems and/or place demands on local water, wastewater, and solid waste facilities in excess of their capacities	**LTS**	**NI**	**LTS**	**LTS**
SECTION 4.16 RECREATION				
Impact REC-1: Increase the use of recreational areas such that substantial physical deterioration of the area would occur or be accelerated	**LTS**	**NI**	**LTS**	**LTS**
Impact REC-2: Disrupt or prevent access to designated recreational areas or disturb users of recreational resources	**LTS**	**NI**	**LTS**	**LTS**
SECTION 4.17 TRAFFIC AND TRANSPORTATION				
Impact TRA-1: Project traffic volumes, or temporary road or travel lane closures, would substantially affect the circulation system	**SU**	**NI**	**SU**	**SU**

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Table ES-3b. Comparison of Alternatives: Gen-tie Line				
	Impact Class[1]			
Impact	**Proposed Gen-tie Line**	**No Project Alternative**	**Under-ground Alternative in County Roads**	**Under-ground Alternative Along Proposed ROW**
Impact TRA-2: Project activities would substantially increase vehicle miles travelled	**LTS**	**NI**	**LTS**	**LTS**
Impact TRA-3: Project activities or features would substantially increase roadway hazards from roadway damage or incompatible uses	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact TRA-4: Project activities would affect emergency vehicle response	**LTSM**	**NI**	**LTSM**	**LTSM**
SECTION 4.18 WILDFIRE				
Impact WIL-1: Require the installation or maintenance of 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 increased wildfire risk	**LTSM**	**NI**	**LTSM**	**LTSM**
Impact WIL-2: Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires	**LTSM**	**NI**	**LTSM**	**LTSM**

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Table ES-3c. Comparison of Alternatives: SCE Calcite Facilities			
	Impact Class[1]		
Impact	**Proposed SCE Calcite Facilities**	**No Project Alternative**	**SCE Calcite Facilities Alternative**
SECTION 4.1 AESTHETICS			
Impact ALG-1: Introduction of visually discordant construction equipment, vehicles, materials, and workforce	**LTSM**	**NI**	**LTSM**
Impact ALG-2: Creation of visual contrast due to vegetation removal	**NI**	**NI**	**NI**
Impact ALG-3: Creation of visual contrast associated with the marking of natural features	**LTSM**	**NI**	**LTSM**
Impact ALG-4: Creation of visual contrast associated with fugitive dust, waste, and trash	**LTSM**	**NI**	**LTSM**
Impact ALG-5: Creation of new sources of substantial light or glare such as nighttime illumination	**LTSM**	**NI**	**LTSM**
Impact ALG-6: Long-term presence of the Project would result in landscape changes that degrade existing visual character or quality	**SU**	**NI**	**SU (Less than Proposed)**
SECTION 4.2 AIR QUALITY			
Impact AQ-1: Air pollutant emissions from construction and O&M	**SU**	**NI**	**SU**
Impact AQ-2: Consistency with regional air quality plans	**LTSM**	**NI**	**LTSM**
Impact AQ-3: Exposure of sensitive receptors to substantial pollutant concentrations	**LTSM**	**NI**	**LTSM**
Impact AQ-4: Creation of objectionable odors affecting a substantial number of people	**LTS**	**NI**	**LTS**

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Table ES-3c. Comparison of Alternatives: SCE Calcite Facilities			
	Impact Class[1]		
Impact	**Proposed SCE Calcite Facilities**	**No Project Alternative**	**SCE Calcite Facilities Alternative**
SECTION 4.3 BIOLOGICAL RESOURCES			
Impact BIO-1: Substantially reduce habitat for a fish or wildlife species	**LTSM**	**NI**	**LTSM**
Impact BIO-2: Substantially affect state or federally listed threatened or endangered plants, California Rare Plant Rank 1 or 2 plants, or locally significant populations of other non-listed special-status plants by causing take of a listed species or degrading occupied habitat or designated critical habitat, or substantially reduce the number or restrict the range of a listed species	**LTSM**	**NI**	**LTSM**
Impact BIO-3: Substantially affect state fully protected wildlife species, state or federally listed threatened or endangered wildlife, California Species of Special Concern, or state ranked S1, S2, or S3 special-status wildlife by causing take or degrading occupied habitat or designated critical habitat, or substantially reduce the number or restrict the range of a listed species or cause the local population to drop below self-sustaining levels	**LTSM**	**NI**	**LTSM**
Impact BIO-4: Cause take of protected nesting birds, including nestlings or eggs, through direct impacts to the nest or substantial nearby disturbance which could cause nest abandonment	**LTSM**	**NI**	**LTSM**
Impact BIO-5: Create a substantial collision and electrocution risk for birds or bats	**LTSM**	**NI**	**LTSM**

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Table ES-3c. Comparison of Alternatives: SCE Calcite Facilities			
	Impact Class[1]		
Impact	**Proposed SCE Calcite Facilities**	**No Project Alternative**	**SCE Calcite Facilities Alternative**
Impact BIO-6: Remove or degrade substantial acreage of riparian vegetation or sensitive vegetation communities identified as S1, S2, or S3, such that the community could be eliminated or its structure or function in the vicinity of the project would be substantially affected	**NI**	**NI**	**NI**
Impact BIO-7: Substantially impact jurisdictional wetlands or waters of the U.S. or waters of the state such that ecological structure or function of jurisdictional features in the vicinity of the project would be substantially affected	**LTSM**	**NI**	**LTSM**
Impact BIO-8: Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors or impede the use of native wildlife nursery sites	**LTS**	**NI**	**LTS**
Impact BIO-9: Conflict with local policies or ordinances protecting biological resources	**LTSM**	**NI**	**LTSM**
Impact BIO-10: Conflict with provisions of an adopted Habitat Conservation Plan, Natural Community Conservation Plan, or other approved local, regional, or State habitat conservation plan	**NI**	**NI**	**NI**
SECTION 4.4 CULTURAL RESOURCES			
Impact CUL-1: The Project could cause a substantial adverse change in the significance of a historical resource pursuant to State CEQA Guidelines, § 15064.5	**LTSM**	**NI**	**LTSM**

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Table ES-3c. Comparison of Alternatives: SCE Calcite Facilities			
	Impact Class[1]		
Impact	Proposed SCE Calcite Facilities	No Project Alternative	SCE Calcite Facilities Alternative
Impact CUL-2: The Project could cause a substantial adverse change in the significance of a unique archaeological resource pursuant to State CEQA Guidelines, § 15064.5	**LTSM**	**NI**	**LTSM**
Impact CUL-3: The Project could disturb human remains, including those interred outside of formal cemeteries	**LTSM**	**NI**	**LTSM**
SECTION 4.5 CULTURAL RESOURCES – TRIBAL			
Impact TCR-1: Change the Significance of a Tribal Cultural Resource, as defined in Public Resources Code section 21074, that is either eligible for or listed in the California Register of Historic Resources or in a local register or is determined by the lead agency to be significant	**LTSM**	**NI**	**LTSM**
SECTION 4.6 ENERGY			
Impact EN-1: Wasteful, inefficient, or unnecessary consumption of energy resources during construction or operation and maintenance	**LTS**	**NI**	**LTS**
Impact EN-2: Conflict with or obstruct a State or local plan for renewable energy or energy efficiency	**SU**	**NI**	**SU**
SECTION 4.7 GEOLOGY AND SOILS			
Impact GEO-1: Damage or injury from fault rupture	**NI**	**NI**	**NI**
Impact GEO-2: Strong earthquake-induced ground shaking could result in damage to project structures and/or injury to people	**LTS**	**NI**	**LTS**
Impact GEO-3: Project structures could be damaged by seismically induced liquefaction phenomena	**LTS**	**NI**	**LTS**

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	Impact Class[1]		
Impact	**Proposed SCE Calcite Facilities**	**No Project Alternative**	**SCE Calcite Facilities Alternative**
Impact GEO-4: Seismically induced landslides or slope failures could damage project structures or expose workers to injury	**NI**	**NI**	**NI**
Impact GEO-5: Construction and operation of the Project could trigger or accelerate soil erosion	**LTSM**	**NI**	**LTSM**
Impact GEO-6: Slope failures, such as landslides, could be triggered by project construction	**NI**	**NI**	**NI**
Impact GEO-7: Unsuitable soils result in damage to project structures	**LTSM**	**NI**	**LTSM**
SECTION 4.8 GREENHOUSE GAS EMISSIONS			
Impact GHG-1: GHG emissions from project activities	**LTS**	**NI**	**LTS**
Impact GHG-2: Consistency with applicable GHG plan, policy, or regulation	**LTS**	**NI**	**LTS**
SECTION 4.9 HAZARDS AND HAZARDOUS MATERIALS			
Impact HAZ-1: Spill or release of hazardous materials occurs during construction, operation, or maintenance of the project	**LTSM**	**NI**	**LTSM**
Impact HAZ-3: Unknown environmental contamination could be encountered during construction	**LTSM**	**NI**	**LTSM**
Impact HAZ-4: Valley fever spores could be mobilized	**LTSM**	**NI**	**LTSM**
SECTION 4.10 HYDROLOGY AND WATER QUALITY			
Impact HWQ-1: The Proposed Project would violate water quality standards or waste discharge requirements or otherwise substantially degrade surface or ground water quality	**LTSM**	**NI**	**LTSM**

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	Impact Class[1]		
Impact	**Proposed SCE Calcite Facilities**	**No Project Alternative**	**SCE Calcite Facilities Alternative**
Impact HWQ-2: The Proposed Project would substantially deplete groundwater supplies or interfere substantially with groundwater recharge such that there would be a net deficit in aquifer volume or a lowering of the local groundwater table level	**LTS**	**NI**	**LTS**
Impact HWQ-3: The Proposed Project would substantially alter the existing drainage patterns by altering the course of a stream or waterway or through the addition of impervious surfaces, allowing substantial erosion, siltation, increased surface runoff on- or off-site, or affecting flood flows	**LTSM**	**NI**	**LTSM**
Impact HWQ-4: The Proposed Project would be located in flood hazard zones, resulting in risk of release of pollutants due to site inundation	**LTSM**	**NI**	**LTSM**
Impact HWQ-5: The Proposed Project would conflict with or obstruct implementation of a water quality control plan or sustainable groundwater management plan	**NI**	**NI**	**NI**
SECTION 4.11 LAND USE AND PLANNING			
Impact LU-1: The Proposed Project would physically divide an established community	**LTS**	**NI**	**LTS**
Impact LU-2: The Proposed Project would not cause a significant environmental impact due to a conflict with any land use plan, policy, or regulation adopted for the purpose of avoiding or mitigating an environmental effect	**SU**	**NI**	**SU**

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	Impact Class[1]		
Impact	**Proposed SCE Calcite Facilities**	**No Project Alternative**	**SCE Calcite Facilities Alternative**
SECTION 4.12 NOISE AND VIBRATION			
Impact NOI-1: Construction and operation noise levels in excess of applicable community noise standards	**LTSM**	**NI**	**LTSM**
Impact NOI-2: Construction noise impacts in excess of ambient noise levels	**LTSM**	**NI**	**LTSM**
Impact NOI-3: Operational noise impacts in excess of ambient noise levels	**LTSM**	**NI**	**LTSM**
Impact NOI-4: Vibration impacts to sensitive receptors	**LTS**	**NI**	**LTS**
SECTION 4.13 PALEONTOLOGICAL RESOURCES			
Impact PAL-1: The Proposed Project could destroy a unique paleontological resource or site	**LTSM**	**NI**	**LTSM**
SECTION 4.14 POPULATION AND HOUSING			
Impact POP-1: Project construction and operation would induce substantial population growth in an area, either directly or indirectly	**NI**	**NI**	**NI**
Impact POP-2: Project construction and operation would displace substantial numbers of people or existing housing, necessitating the construction of replacement housing elsewhere	**NI**	**NI**	**NI**

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	Impact Class[1]		
Impact	**Proposed SCE Calcite Facilities**	**No Project Alternative**	**SCE Calcite Facilities Alternative**
SECTION 4.15 PUBLIC SERVICES, UTILITIES, AND SERVICE SYSTEMS			
Impact PSU-1: Project construction and operation would result in adverse physical impacts associated with the provision of or need for new or altered governmental facilities or would inhibit maintenance of acceptable service ratios and response times for public services	**SU**	**NI**	**SU**
Impact PSU-2: Project construction and operation would require new or relocated utilities and service systems and/or place demands on local water, wastewater, and solid waste facilities in excess of their capacities	**LTS**	**NI**	**LTS**
SECTION 4.16 RECREATION			
Impact REC-1: Increase the use of recreational areas such that substantial physical deterioration of the area would occur or be accelerated	**LTS**	**NI**	**LTS**
Impact REC-2: Disrupt or prevent access to designated recreational areas or disturb users of recreational resources	**LTS**	**NI**	**LTS**
SECTION 4.17 TRAFFIC AND TRANSPORTATION			
Impact TRA-1: Project traffic volumes, or temporary road or travel lane closures, would substantially affect the circulation system	**SU**	**NI**	**SU**
Impact TRA-2: Project activities would substantially increase vehicle miles travelled	**LTS**	**NI**	**LTS**

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	Impact Class[1]		
Impact	**Proposed SCE Calcite Facilities**	**No Project Alternative**	**SCE Calcite Facilities Alternative**
Impact TRA-3: Project activities or features would substantially increase roadway hazards from roadway damage or incompatible uses	**LTSM**	**NI**	**LTSM**
Impact TRA-4: Project activities would affect emergency vehicle response	**SU**	**NI**	**SU**
SECTION 4.18 WILDFIRE			
Impact WIL-1: Require the installation or maintenance of 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 increased wildfire risk	**LTSM**	**NI**	**LTSM**
Impact WIL-2: Expose people or structures, either directly or indirectly, to a significant risk of loss, injury or death involving wildland fires	**LTSM**	**NI**	**LTSM**

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