# 1 4.0 Environmental Analysis

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#### 3 Introduction

This chapter evaluates environmental impacts that would result from construction and operation
of the Mesa 500-kilovolt (kV) Substation Project (proposed project) proposed by Southern
California Edison Company (SCE, or the applicant) and alternatives to the proposed project. The
chapter includes sections for each of the following resource areas:

- 9 4.1 Aesthetics 4.8 Hydrology and Water Quality 10 4.2 Air Quality 4.9 Land Use and Planning Noise and Vibration 11 4.3 **Biological Resources** 4.10 12 Cultural and Paleontological Resources 4.11 **Population and Housing** 4.4 13 Geology, Soils, and Mineral Resources **Public Services and Utilities** 4.5 4.12 **Greenhouse Gases** 14 4.6 4.13 Recreation 15 4.7 Hazards and Hazardous Materials 4.14 Traffic and Transportation
- 17 Agriculture and forestry resources are not analyzed in this Environmental Impact Report. There
- 18 are no agriculture or forestry resources in the project area. The proposed project would not
- 19 directly or indirectly impact agricultural land or forest land by converting it to non-agricultural or
- 20 non-forestry use, respectively. The proposed project would therefore have no impacts to
- 21 agriculture and forestry resources.
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#### 23 Resource Area Format

- 24 Each resource area section is organized under the following headings:
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- Environmental Setting;
- Regulatory Setting;
- Impact Analysis; and
- Mitigation Measures.
- 29 30

Cumulative impacts of the proposed projects are presented in Chapter 6, "Cumulative Impacts and
 Other CEQA Considerations." Information contained under each heading is described below.

# 3334 Environmental Setting

- 35 Each resource area section contains a discussion of the environmental setting (the existing
- 36 environmental conditions in the vicinity of the entire proposed project [project area]) and
- 37 identifies the baseline physical conditions by which the significance of the project's environmental
- impacts will be assessed. The baseline physical conditions for the proposed project are the existing
- 39 environmental conditions in the project area at the time of the publication of the Notice of
- 40 Preparation (NOP) (June 2015). The discussion of the environmental setting in each resource area
- 41 section contains information necessary to understand the potential impacts of the proposed

1 project and the alternatives to the proposed project (California Environmental Quality Act

- 2 Guidelines §15125(a)).
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# 4 Regulatory Setting

- 5 Laws, ordinances, regulations, standards, and policies applicable to the proposed project and
- 6 resource areas are discussed in the regulatory setting sections for each resource area. Laws and
- 7 regulations may also specify permits and approvals necessary for authorization or evaluation and
- 8 require agency consultation. Table 2-10 in Chapter 2, "Project Description," identifies the permits,
- 9 approvals, and consultations for the project.
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#### 11 Impact Analysis

- 12 A discussion of environmental impacts and mitigation measures for the proposed project is
- 13 presented for each environmental resource area.
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#### 15 Significance Criteria

- 16 Significance criteria serve as a benchmark for determining if the proposed project would result in
- 17 significant impacts when evaluated against the baseline conditions established in the
- 18 environmental setting and regulatory setting sections for each resource area. The significance
- 19 criteria used are from the checklist presented in the California Environmental Quality Act
- 20 Guidelines (Appendix G).
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#### 22 Applicant Proposed Measures

- 23 To avoid and mitigate potential significant impacts to environmental resources, the applicant has
- committed to implementing the applicant proposed measures (APMs) listed in Section 2.6,
- 25 "Applicant Proposed Measures." The section provides a list of APMs that, when implemented,
- 26 would reduce impacts for each resource area.
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## 28 Environmental Impacts

- 29 The impacts analyses presented in this chapter evaluate impacts that may occur from construction
- 30 and operation of the proposed project. The discussion evaluates the significance of impacts prior to
- 31 and after implementation of APMs, identifies mitigation measure(s) for significant impacts, and
- 32 provides a determination of significance after mitigation.
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## 34 Mitigation Measures

- 35 This section provides the text of mitigation measures specific to the resource area that would be
- 36 implemented to reduce significant impacts of the proposed project.