

Table of Contents

Acronyms and Abbreviations.....	
Summary.....	S-1
1. Introduction.....	1-1
1.1 Project Location, Overview, and Background	1-1
1.2 Overview of the Environmental Review Process.....	1-2
1.3 Intended Uses of the SEIR	1-4
1.4 Reader’s Guide to the SEIR.....	1-5
1.5 Public Review and Comment.....	1-7
1.6 Post-SEIR Project Changes.....	1-9
2. Project Description.....	2-1
2.1 Project Overview	2-1
2.2 Project Objectives.....	2-2
2.3 Comparison of Lompoc Wind Energy Project and SWEP	2-3
2.4 Location and Setting.....	2-7
2.5 Project Components.....	2-13
2.6 SWEP Construction.....	2-34
2.7 Operation	2-51
2.8 Decommissioning	2-55
2.9 Project Approvals	2-56
2.10 References.....	2-57
3. Cumulative Scenario	3-1
3.1 Introduction.....	3-1
3.2 Methodology	3-2
3.3 Relevant Cumulative Projects	3-3
4. Environmental Impact Analysis	4-1
4.1 Introduction to the Environmental Impact Analysis	4.1-1
4.1.1 Introduction	4.1-1
4.1.2 Analytical Assumptions.....	4.1-1
4.1.3 Types of Effects	4.1-2

Table of Contents

4.1.4 Mitigation Measures Included in the Analysis..... 4.1-2

4.1.5 CEQA Significance Conclusions 4.1-3

4.1.6 Environmental Issues Addressed 4.1-4

4.1.7 Effects Found Not to be Significant 4.1-4

4.1.8 Organization of the Environmental Analysis 4.1-4

4.2 Aesthetics\Visual Resources 4.2-1

4.2.1 Environmental Setting 4.2-1

4.2.2 Regulatory Setting 4.2-3

4.2.3 Significance Thresholds..... 4.2-5

4.2.4 Environmental Impacts and Mitigation Measures 4.2-6

4.2.5 Cumulative Effects 4.2-20

4.2.6 Residual Impacts 4.2-22

4.2.7 Impact and Mitigation Summary 4.2-22

4.2.8 References 4.2-23

4.3 Agricultural Resources 4.3-1

4.3.1 Environmental Setting 4.3-1

4.3.2 Regulatory Setting 4.3-2

4.3.3 Significance Thresholds..... 4.3-2

4.3.4 Environmental Impacts and Mitigation Measures 4.3-2

4.3.5 Cumulative Effects 4.3-4

4.3.6 Residual Impacts 4.3-5

4.3.7 Impact and Mitigation Summary 4.3-5

4.3.8 References 4.3-5

4.4 Air Quality..... 4.4-1

4.4.1 Environmental Setting 4.4-1

4.4.2 Regulatory Setting 4.4-5

4.4.3 Significance Thresholds..... 4.4-10

4.4.4 Environmental Impacts and Mitigation Measures 4.4-11

4.4.5 Cumulative Effects 4.4-16

4.4.6 Residual Impacts 4.4-18

4.4.7 Impact and Mitigation Summary 4.4-18

4.4.8 References 4.4-18

4.5 Biological Resources 4.5-1

 4.5.1 Environmental Setting 4.5-1

 4.5.2 Regulatory Setting..... 4.5-31

 4.5.3 Significance Thresholds..... 4.5-35

 4.5.4 Environmental Impacts and Mitigation Measures..... 4.5-36

 4.5.5 Cumulative Effects 4.5-93

 4.5.6 Residual Impacts 4.5-95

 4.5.7 Impact and Mitigation Summary 4.5-95

 4.5.8 References 4.5-98

4.6 Archaeological and Tribal Cultural Resources 4.6-1

 4.6.1 Environmental Setting 4.6-1

 4.6.2 Regulatory Setting..... 4.6-3

 4.6.3 Significance Thresholds..... 4.6-4

 4.6.4 Environmental Impacts and Mitigation Measures..... 4.6-6

 4.6.5 Cumulative Effects 4.6-16

 4.6.6 Residual Impacts 4.6-17

 4.6.7 Impact and Mitigation Summary 4.6-17

 4.3.8 References 4.6-17

4.7 Energy..... 4.7-1

 4.7.1 Environmental Setting 4.7-1

 4.7.2 Regulatory Setting..... 4.7-2

 4.7.3 Significance Thresholds..... 4.7-3

 4.7.4 Environmental Impacts and Mitigation Measures..... 4.7-3

 4.7.5 Cumulative Effects 4.7-4

 4.7.6 Residual Impacts 4.7-5

 4.7.7 Impact and Mitigation Summary 4.7-5

 4.7.8 References 4.7-6

4.8 Fire Hazards and Emergency Services 4.8-1

 4.8.1 Environmental Setting 4.8-1

 4.8.2 Regulatory Setting..... 4.8-5

 4.8.3 Significance Thresholds..... 4.8-8

 4.8.4 Environmental Impacts and Mitigation Measures..... 4.8-8

Table of Contents

4.8.5 Cumulative Effects 4.8-17

4.8.6 Residual Impacts 4.8-18

4.8.7 Impact and Mitigation Summary 4.8-18

4.8.8 References 4.8-19

4.9 Geology and Soils 4.9-1

4.9.1 Environmental Setting 4.9-1

4.9.2 Regulatory Setting 4.9-12

4.9.3 Significance Thresholds..... 4.9-14

4.9.4 Environmental Impacts and Mitigation Measures 4.9-15

4.9.5 Cumulative Effects 4.9-23

4.9.6 Residual Impacts 4.9-24

4.9.7 Impact and Mitigation Summary 4.9-24

4.9.8 References 4.9-24

4.10 Greenhouse Gases 4.10-1

4.10.1 Environmental Setting 4.10-1

4.10.2 Regulatory Setting 4.10-6

4.10.3 Significance Thresholds..... 4.10-8

4.10.4 Environmental Impacts and Mitigation Measures 4.10-9

4.10.5 Cumulative Effects 4.10-13

4.10.6 Residual Impacts 4.10-13

4.10.7 Impact and Mitigation Summary 4.10-13

4.10.8 References 4.10-13

4.11 Hazards and Hazardous Materials..... 4.11-1

4.11.1 Environmental Setting 4.11-1

4.11.2 Regulatory Setting 4.11-5

4.11.3 Significance Thresholds..... 4.11-6

4.11.4 Environmental Impacts and Mitigation Measures 4.11-7

4.11.5 Cumulative Effects 4.11-13

4.11.6 Residual Impacts 4.11-14

4.11.7 Impact and Mitigation Summary 4.11-14

4.11.8 References 4.11-15

4.12 Hydrology and Water Quality..... 4.12-1

 4.12.1 Environmental Setting 4.12-1

 4.12.2 Regulatory Setting..... 4.12-2

 4.12.3 Significance Thresholds..... 4.12-3

 4.12.4 Environmental Impacts and Mitigation Measures..... 4.12-5

 4.12.5 Cumulative Effects 4.12-11

 4.12.6 Residual Impacts 4.12-13

 4.12.7 Impact and Mitigation Summary 4.12-13

 4.12.8 References 4.12-13

4.13 Land Use and Planning 4.13-1

 4.13.1 Environmental Setting 4.13-1

 4.13.2 Regulatory Setting..... 4.13-2

 4.13.3 Significance Thresholds..... 4.13-5

 4.13.4 Environmental Impacts and Mitigation Measures..... 4.13-6

 4.13.5 Consistency with Plans and Policies..... 4.13-14

 4.13.5 Cumulative Effects 4.13-37

 4.13.6 Residual Impacts 4.13-38

 4.13.7 Impact and Mitigation Summary 4.13-38

 4.13.8 References 4.13-39

4.14 Noise..... 4.14-1

 4.14.1 Environmental Setting 4.14-1

 4.14.2 Regulatory Setting..... 4.14-5

 4.14.3 Significance Thresholds..... 4.14-5

 4.14.4 Environmental Impacts and Mitigation Measures..... 4.14-8

 4.14.5 Cumulative Effects 4.14-20

 4.14.6 Residual Impacts 4.14-21

 4.14.7 Impact and Mitigation Summary 4.14-21

 4.14.8 References 4.14-21

4.15 Paleontological Resources..... 4.15-1

 4.15.1 Environmental Setting 4.15-1

 4.15.2 Regulatory Setting..... 4.15-6

 4.15.3 Significance Thresholds..... 4.15-6

Table of Contents

4.15.4 Environmental Impacts and Mitigation Measures 4.15-6

4.15.5 Cumulative Effects 4.15-11

4.15.6 Residual Impacts 4.15-12

4.15.7 Impact and Mitigation Summary 4.15-12

4.15.8 References 4.15-13

4.16 Recreation 4.16-1

4.16.1 Environmental Setting 4.16-1

4.16.2 Regulatory Setting 4.16-1

4.16.3 Significance Thresholds..... 4.16-1

4.16.4 Environmental Impacts and Mitigation Measures 4.16-2

4.16.5 Cumulative Effects 4.16-3

4.16.6 Residual Impacts 4.16-4

4.16.7 Impact and Mitigation Summary 4.16-4

4.16.8 References 4.16-4

4.17 Transportation and Traffic 4.17-1

4.17.1 Environmental Setting 4.17-1

4.17.2 Regulatory Setting 4.17-12

4.17.3 Significance Thresholds..... 4.17-12

4.17.4 Environmental Impacts and Mitigation Measures 4.17-14

4.17.5 Cumulative Effects 4.17-30

4.17.6 Residual Impacts 4.17-31

4.17.7 Impact and Mitigation Summary 4.17-31

4.17.8 References 4.17-31

4.18 Utilities and Service Systems..... 4.18-1

4.18.1 Environmental Setting 4.18-1

4.18.2 Regulatory Setting 4.18-2

4.18.3 Significance Thresholds..... 4.18-3

4.18.4 Environmental Impacts and Mitigation Measures 4.18-5

4.18.5 Cumulative Effects 4.18-10

4.18.6 Residual Impacts 4.18-10

4.18.7 Impact and Mitigation Summary 4.18-10

4.18.8 References 4.18-11

5. Alternatives 5-1

 5.1 Introduction..... 5-1

 5.2 Criteria for Selection of Alternatives..... 5-1

 5.3 Alternatives Considered 5-2

 5.4 Alternatives Eliminated from Further Consideration..... 5-4

 5.5 Alternatives Analysis 5-6

 5.6 Comparison of Alternatives..... 5-25

6. Other CEQA Considerations 6-1

 6.1 Significant and Unavoidable Impacts 6-1

 6.2 Significant Irreversible Environmental Changes..... 6-2

 6.3 Energy Conservation 6-2

 6.4 Growth-Inducing Impacts..... 6-3

 6.5 Effects Found Not to Be Significant..... 6-3

 6.6 References..... 6-8

7. List of Preparers 7-1

Appendices

- A. Notice of Preparation and Scoping Comments
- B. Construction and Operation Emissions Estimate Details
- C. Biological Resources
 - C-1 Biological Resources Technical Report
 - C-2 Biological Resources Technical Report, Addendum No. 1
 - C-3 Biological Resources Technical Report, Addendum No. 2
 - C-4 Wetland Delineation and Jurisdictional Determination Report
 - C-5 Gap Area Survey Results
 - C-6 Special-Status Plants
 - C-7 Special-Status Wildlife
- D. Hydrologic Analysis
- E. Well Feasibility Study
 - E-1 Well Feasibility Study
 - E-2 Strauss Well CW-2
- F. Strauss Wind 67m Blade Feasibility Assessment
- G. Transportation Study for San Miguelito Road Strauss Wind Energy Project
- H. Strauss Wind Project Review

List of Tables

Table 1-1. Summary of Scoping Comments	1-7
Table 2-1. Comparison of Lompoc Wind Energy Project and SWEP	2-6
Table 2-2. Project Landowners.....	2-8
Table 2-3. Wind Turbine Generator Model Component Specifications	2-13
Table 2-4. Estimated Area of Impervious Surface.....	2-15
Table 2-5. Required PG&E Upgrades	2-24
Table 2-6. Summary of Road Crossings and Culvert Sizes	2-33
Table 2-7. Project Construction Schedule.....	2-34
Table 2-8. Construction Equipment	2-40
Table 2-9. Estimated Construction Truck Trips	2-43
Table 2-10. Estimated Temporary and Permanent Land Disturbance.....	2-45
Table 2-11. Estimated Earthwork.....	2-45
Table 2-12. Transmission Line Construction Equipment	2-49
Table 3-1. Cumulative Projects Scenario.....	3-4
Table 4.2-1. LWEP Impacts and Mitigation Measures – Aesthetics/Visual Resources	4.2-7
Table 4.2-2 SWEP Impact and Mitigation Summary – Aesthetics/Visual Resources	4.2-22
Table 4.3-1. Agricultural Preserves Utilized for Project Components	4.3-1
Table 4.3-2. LWEP Impacts and Mitigation Measures – Agriculture Resources	4.3-3
Table 4.3-3. SWEP Impact and Mitigation Summary – Agriculture Resources.....	4.3-5
Table 4.4-1. National/California Ambient Air Quality Standards and Relevant Health Effects	4.4-2
Table 4.4-2. Summary of Ambient Air Quality Data, Lompoc Monitoring Station	4.4-4
Table 4.4-3. Santa Barbara County Emissions Estimate for 2017 (tons per year)	4.4-5
Table 4.4-4. LWEP Impacts and Mitigation Measures – Air Quality	4.4-11
Table 4.4-5. Unmitigated Construction Emissions (tons per year)	4.4-13
Table 4.4-6. Mitigated Construction Emissions (tons per year).....	4.4-15
Table 4.4-7. Unmitigated Maximum Daily Operation Emissions (pounds per day).....	4.4-16
Table 4.4-8. Cumulative Projects Relevant to Air Quality	4.4-17
Table 4.4-9. SWEP Impact and Mitigation Summary – Air Quality	4.4-18
Table 4.5-1. Summary of Surveys Conducted at the Project Site	4.5-3
Table 4.5-2. LWEP Impacts and Mitigation Measures – Biological Resources.....	4.5-25
Table 4.5-3. Impacts to Vegetation and Landforms.....	4.5-30

Table 4.5-4. Impacts to Trees 4.5-50

Table 4.5-5. Impacts to Jurisdictional Resources 4.5-60

Table 4.5-6. Adaptive Management Threshold Criteria 4.5-86

Table 4.5-7. Comparison of Aerial Displacement from WTGs between LWEF and SWEF 4.5-90

Table 4.5-8. SWEF Impact and Mitigation Summary – Biological Resources..... 4.5-84

Table 4.6-1. LWEF Impacts and Mitigation Measures – Cultural and Tribal Resources 4.6-7

Table 4.6-2. Impacts on Cultural Resources 4.6-8

Table 4.6-3. Minimum Phase II and Phase III Excavations at Archaeological Resources 4.6-13

Table 4.6-4. SWEF Impact and Mitigation Summary – Cultural and Tribal Resources 4.6-17

Table 4.7-1. LWEF Impacts and Mitigation Measures – Energy/Electric Utilities 4.7-3

Table 4.7-2. SWEF Impact and Mitigation Summary – Energy 4.7-5

Table 4.8-1. Major Wildfires in Santa Barbara County 2007-2017 4.8-3

Table 4.8-2. LWEF Impacts and Mitigation Measures – Fire Hazards & Emergency Services .. 4.8-8

Table 4.8-3. SWEF Impact and Mitigation Summary – Fire Hazards & Emergency Services .. 4.8-18

Table 4.9-1. SWEF Soil Characteristics 4.9-5

Table 4.9-2. Significant Active and Potentially Active Faults within 50 miles of SWEF 4.9-8

Table 4.9-3. LWEF Impacts and Mitigation Measures – Geology and Soils 4.9-15

Table 4.9-4. SWEF Impact and Mitigation Summary – Geology and Soils 4.9-24

Table 4.10-1. California GHG Emissions Inventory (million metric tons per year, MMTCO_{2e}) 4.10-5

Table 4.10-2. Estimated Project Annual GHG Emission Rates (MTCO_{2e} per year)..... 4.10-11

Table 4.10-3. SWEF Impact and Mitigation Summary – Greenhouse Gas Emissions 4.10-13

Table 4.11-1. LWEF Impacts and Mitigation Measures – Hazards & Hazardous Materials.... 4.11-7

Table 4.11-1. SWEF Impact and Mitigation Summary – Hazards & Hazardous Materials.... 4.11-14

Table 4.12-1. LWEF Impacts and Mitigation Measures – Hydrology and Water Quality 4.12-6

Table 4.12-2. SWEF Impact and Mitigation Summary – Hydrology and Water Quality 4.12-13

Table 4.13-1. LWEF Impacts and Mitigation Measures – Land Use and Planning 4.13-6

Table 4.13-3. SWEF Impact and Mitigation Summary – Land Use and Planning 4.13-38

Table 4.14-1. Existing Background Noise Level Measurements..... 4.14-2

Table 4.14-2. Summary of Noise-Sensitive Receptor Locations..... 4.14-4

Table 4.14-3. LWEF Impacts and Mitigation Measures – Noise 4.14-8

Table 4.14-4. Typical Construction Noise Levels..... 4.14-9

Table 4.14-5. Predicted Construction Noise Levels at Sensitive Receptors 4.14-5

Table of Contents

Table 4.14-6. Predicted WTG Noise Levels for Nearby Residences 4.14-6

Table 4.14-7. SWEP Impact and Mitigation Summary – Noise 4.14-21

Table 4.15-1. Paleosensitivity of the Project Site Rock Units..... 4.15-5

Table 4.15-2. LWEP Impacts and Mitigation Measures – Paleontological Resources 4.15-6

Table 4.15-3. SWEP Impact and Mitigation Summary – Paleontological Resources 4.15-12

Table 4.16-1. LWEP Impacts and Mitigation Measures – Recreation 4.16-2

Table 4.16-2. SWEP Impact and Mitigation Summary – Recreation 4.16-4

Table 4.17-1. Daily Traffic Volumes 4.17-4

Table 4.17-2. Study Area Intersections 4.17-6

Table 4.17-3. Existing Truck Percentages at Each Intersection..... 4.17-6

Table 4.17-4. Relationship between ICU Values, Delay Values, and Levels of Service 4.17-8

Table 4.17-5. Existing Intersection Levels of Service – ICU Methodology 4.17-8

Table 4.17-6. Existing Intersection Levels of Service – HCM Methodology..... 4.17-9

Table 4.17-7. 2020 Intersection Levels of Service – ICU Methodology 4.17-10

Table 4.17-8. 2020 Intersection Levels of Service – HCM Methodology 4.17-10

Table 4.17-9. LWEP Impacts and Mitigation Measures – Transportation and Traffic 4.17-14

Table 4.17-10. Project Generated Traffic during Construction..... 4.17-15

Table 4.17-11. Project Impact on Intersection Levels of Service – ICU, Existing Baseline.... 4.17-20

Table 4.17-12. Project Impact on Intersection Levels of Service – ICU, 2020 Baseline 4.17-20

Table 4.17-13. Project Impact on Intersection Levels of Service – HCM, Existing Baseline.. 4.17-21

Table 4.17-14. Project Impact on Intersection Levels of Service – HCM, 2020 Baseline..... 4.17-22

Table 4.17-15. SWEP Impact and Mitigation Summary – Transportation and Traffic 4.17-31

Table 4.18-2. SWEP Impact and Mitigation Summary – Utilities and Service Systems 4.18-10

Table 5-1. Comparison of Alternatives (Excluding No Project)..... 5-27

List of Figures

Figure 2-1. Project Location.....	2-4
Figure 2-2. Comparison of LWEP and SWEP.....	2-5
Figure 2-3a. Project Site Plan.....	2-9
Figure 2-3b. Detailed Site Plan	2-11
Figure 2-4a. Project Transmission Line Route	2-22
Figure 2-4b. Project Transmission Line Route	2-23
Figure 2-5. Turbine Blade Transportation Route.....	2-36
Figure 2-6a. San Miguelito Road Modifications	2-37
Figure 2-6b. San Miguelito Road Modifications	2-38
Figure 2-6c San Miguelito Road Modifications	2-39
Figure 3-1. Nearby Cumulative Projects.....	3-19
Figure 4.2-1 KOP Map.....	End of Section 4.2
Figure 4.2-2A/2B. KOP 1 – Northbound State Route 1 from the LWEP EIR	End of Section 4.2
Figure 4.2-3A. KOP 2 – Southbound SR-1, Existing View.....	End of Section 4.2
Figure 4.2-3B. KOP 2 – Southbound SR-1, Visual Simulation	End of Section 4.2
Figure 4.2-3C. KOP 2 – Southbound SR-1, Mitigation Simulation	End of Section 4.2
Figure 4.2-4A. KOP 3 – San Miguelito Road, Existing View	End of Section 4.2
Figure 4.2-4B. KOP 3 – San Miguelito Road, Visual Simulation.....	End of Section 4.2
Figure 4.2-4C. KOP 3 – San Miguelito Road, Mitigation Simulation.....	End of Section 4.2
Figure 4.2-5A. KOP 4 – Jalama Beach, Existing View	End of Section 4.2
Figure 4.2-5B. KOP 4 – Jalama Beach, Visual Simulation.....	End of Section 4.2
Figure 4.2-6. KOP 5 – Ocean Park, Existing View.....	End of Section 4.2
Figure 4.2-7A/7B. KOP 6 – 7 th and Tangerine in Lompoc from the LWEP EIR	End of Section 4.2
Figure 4.2-8A/8B. KOP 7 – Lemon Avenue in Lompoc from the LWEP EIR	End of Section 4.2
Figure 4.2-9A. KOP 8 – La Purisima Mission State Historic Park, Existing View	End of Section 4.2
Figure 4.2-9B. KOP 8 – La Purisima Mission State Historic Park, Visual Simulation.....	End of Section 4.2
Figure 4.2-10. KOP 9 – Harris Grade Road, Existing View	End of Section 4.2
Figure 4.2-11. KOP 10 – SR-1 North of Lompoc, Existing View	End of Section 4.2
Figure 4.2-12A. KOP 11 – Upper San Miguelito Road, Existing View	End of Section 4.2
Figure 4.2-12B. KOP 11 – Upper San Miguelito Road, Visual Simulation.....	End of Section 4.2
Figure 4.2-13A. KOP 12 – Miguelito Co. Park & San Miguelito Rd., Existing View	End of Section 4.2

Table of Contents

Figure 4.2-13B. KOP 12 – Miguelito Co. Park & San Miguelito Rd., Visual Simulation .End of Section 4.2

Figure 4.2-14A. KOP 13 – San Miguelito Road, Existing ViewEnd of Section 4.2

Figure 4.2-14B. KOP 13 – San Miguelito Road, Visual Simulation.....End of Section 4.2

Figure 4.2-15A. KOP 14 – East Olive Avenue in Lompoc, Existing ViewEnd of Section 4.2

Figure 4.2-15B. KOP 14 – East Olive Avenue in Lompoc, Visual SimulationEnd of Section 4.2

Figure 4.2-15C. KOP 14 – East Olive Avenue in Lompoc, Mitigation SimulationEnd of Section 4.2

Figure 4.2-16A. Transmission Line Southern Segments, Class I ImpactsEnd of Section 4.2

Figure 4.2-16B. Transmission Line Northern Segment, Class I ImpactsEnd of Section 4.2

Figure 4.5-1a. Vegetation 4.5-6

Figure 4.5-1b. Vegetation..... 4.5-7

Figure 4.5-2. Important Habitat Areas 4.5-10

Figure 4.5-3. Special-Status Plants 4.5-13

Figure 4.5-4a. Special-Status Plant Survey Results..... 4.5-14

Figure 4.5-4b. Special-Status Plant Survey Results 4.5-15

Figure 4.5-5. Special-Status Wildlife..... 4.5-16

Figure 4.5-6a. El Segundo Blue Butterfly Habitat..... 4.5-23

Figure 4.5-6b. El Segundo Blue Butterfly Habitat..... 4.5-24

Figure 4.5-7a. Jurisdictional Waters..... 4.5-27

Figure 4.5-7b. Jurisdictional Waters..... 4.5-28

Figure 4.5-7c. Jurisdictional Waters 4.5-29

Figure 4.9-1 Local Geology 4.9-2

Figure 4.9-2. Regional Active Faults and Historic Earthquakes 4.9-9

Figure 4.14-1. Noise Level Measurement Locations and Sensitive Receptors..... 4.14-3

Figure 4.14-2. Predicted Noise Contours and Noise Levels at Sensitive Receptors (dBA, Ldn) 4.14-15

Figure 4.15-1. Geological Map 4.15-2

Figure 4.17-1. Study Area Intersections 4.17-2

Figure 4.17-2. Improvements Needed on Transportation Route for Oversized Trucks..... 4.17-5

Figure 4.17-3. Existing Peak Hour Traffic Volumes 4.17-7

Figure 4.17-4. Project Generated Traffic – Construction Workers 4.17-17

Figure 4.17-5. Project Generated Traffic – Construction Trucks..... 4.17-18

Figure 4.17-6. Existing Plus Project Traffic Volumes 4.17-19

Figure 5-1. Elimination of WTGs E-7 and E-8 5-12

Figure 5-2. Alternative Switching Station Location 5-17

Figure 5-3. Alternate Surface Transport Route 5-22

Acronyms and Abbreviations

AB	Assembly Bill
ADT	Average Daily Traffic
AMP	Adaptive Management Plan
ANSI	American National Standards Institute
APAC	Agricultural Preserve Advisory Committee
APCD	Air Pollution Control District
APLIC	Avian Power Line Interaction Committee
APN	Assessor’s Parcel Numbers
ATVs	All-Terrain Vehicles
BAAQMD	Bay Area Air Quality Management District
BACI	Before-after/Control-impact
BBCS	Bird and Bat Conservation Strategy
BGEPA	Bald and Golden Eagle Protection Act
BMPs	Best Management Practices
CAAQS	California ambient air quality standards
CARB	California Air Resources Board
CAS	Climate Action Strategy
CBC	California Building Code
CCR	California Code of Regulations
CDFW	California Department of Fish and Wildlife
CDMG	California Division of Mines and Geology
CDP	Coastal Development Permit
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFC	California Fire Code
CGS	California Geological Survey
CHLs	California Historical Landmarks
CMP	Corrugated metal pipes
CNG	Compressed natural gas

CNPS	California Native Plant Society
CO	Carbon Monoxide
COLT	City of Lompoc Transit
CPUC	California Public Utilities Commission
CRPR	California Rare Plant Rank
CSB	County of Santa Barbara
CSSC	Coast range newt
CUP	Conditional Use Permit
CWA	Clean Water Act
DBH	Diameter at breast height
DNH	Determination of No Hazard
DOC	Department of Conservation
DOE	U.S. Department of Energy
DPM	Diesel particulate matter
DU	Distribution Upgrades
ECAP	Energy and Climate Action Plan
EHS	Environmental Health Services
EIR	Environmental Impact Report
ELFs	Extremely low frequency
EMF	Electric and magnetic field
EMS	Emergency Medical Service
EMT	Emergency Medical Technician
EPA	Environmental Protection Agency
EQAP	Environmental Quality Assurance Program
ESA	Endangered Species Act
ESBB	El Segundo blue butterfly
ESHA	Environmentally Sensitive Habitat Area
ETGM	Environmental Thresholds and Guidelines Manual
EU	European Union
FAA	Federal Aviation Administration
FERC	Federal Energy Regulatory Commission
GCC	Global climate change

Acronyms and Abbreviations

GHG	Greenhouse gas
GO	General Order
GO95	CPUC General Order 95
GWP	Global warming potential
HCM	Highway Capacity Manual
HCS	Highway Capacity Software
HDD	Horizontal directional drilling
HFCs	Hydrofluorocarbons
IBA	Important Bird Areas
IBC	International Building Code
ICU	Intersection Capacity Utilization
IE	Independent Engineering
IEEE	Institute of Electrical and Electronics Engineers
IFU	Interconnection Facilities Upgrade
IPCC	Intergovernmental Panel on Climate Change
ISO	International Organization for Standardization
KOPs	Key Observation Points
LACM	Los Angeles County Museum
LAMP	Local Agency Management Program
LCFS	Low Carbon Fuel Standard
LCPs	Local Coastal Programs
LFD	Lompoc Fire Department
LNG	Liquefied natural gas
LNTes	Low-Noise-Trailing-Edges
LOS	Levels of service
LRA	Local Responsibility Area
LRWRP	Lompoc Regional Wastewater Reclamation Plant
LT-1	Levels at three locations, one
LUDC	Land Use & Development Code
LUP	Land use plan
LVBC	Lompoc Valley Bicycling Club
LVDC	Lompoc Valley Distance Club

LWEP	Lompoc Wind Energy Project
LWRP	Lompoc Wastewater Reclamation Plant
MHFP	Multi-Hazard Functional Plan
MM	Mitigation Measure
MOA.....	Memorandum of Agreement
MOEs	Measures of Effectiveness
MSDS	Material Safety Data Sheets
MT	Metric ton
MW	megawatt
NAAQS	National ambient air quality standards
NAHC	Native American Heritage Commission
NEMA.....	National Electric Manufacturers Association
NEPA	National Environmental Policy Act
NESC	National Electric Safety Code
NFPA	National Fire Protection Agency
NOA	Notice of Availability
NOD	Notice of Determination
NOP	Notice of Preparation
NPDES	National Pollutant Discharge Elimination System
NRCS	National Resource Conservation Service
NSR	New Source Review
OEHHA	Office of Environmental Health Hazard Assessment
OHWM.....	Ordinary high-water mark
OSHA.....	Occupational Health and Safety Administration
OWTS.....	Onsite Wastewater Treatment Systems
PCEs	Passenger car equivalents
PCO	Point of Change of Ownership
PERP.....	Portable Equipment Registration Program
PFCs	Perfluorocarbons
PGAs	Peak site accelerations
PM10	Particulate matter (less than 10 microns in diameter)
PM2.5	Fine particulate matter (less than 2.5 microns in diameter)

Acronyms and Abbreviations

POI Point of Interconnection

PRC Public Resources Code

PRMMP..... Paleontological Resource Mitigation and Monitoring Plan

PSHAProbabilistic Seismic Hazard Assessment Maps

R1Residential property

REC Recognized environmental conditions

RFRRadiofrequency Radiation

RNUReliability Network Upgrades

ROC Reactive organic compounds

RPSRenewables Portfolio Standard

RWQCB.....Regional Water Quality Control Board

SAOs Santa Ana Occurrences

SBAS.....Santa Barbara Audubon Society

SBC County of Santa Barbara

SBCAG..... Santa Barbara County Association of Governments

SBCFDSanta Barbara County Fire Department

SBCPW Santa Barbara Public Works Department

SBCSDSanta Barbara County Sheriff’s Department

SCADA..... Supervisory Control and Data Acquisition

SCEDCSouthern California Earthquake Data Center

SEIR Supplemental Environmental Impact Report

SHPO.....State Historic Preservation Officer

SLR Sea-level rise

SMARA..... Surface Mining and Reclamation Act

SOC Statement of Overriding Considerations

SODSudden Oak Death

SODARSonic detection and ranging units

SPService population

SRState Route

SR-1State Route 1

SR-246State Route 246

SRAState Responsibility Areas

SRRE	Source Reduction and Recycling Element
SSSE	Seismic Safety and Safety Element
SSURGO	Soil Survey Geographic
SVP	Society of Vertebrate Paleontology
SWEP	Strauss Wind Energy Project
SWMP	Solid Waste Management Plan
SWPPP	Stormwater Pollution Prevention Plan
SWQMP	Storm Water Quality Management Plan
SWRCB	State Water Resources Control Board
TACs	Toxic Air Contaminant
TCRs	Tribal Cultural Resources
TDM	Transportation Demand Management
TMP	Traffic Management Plan
TRP	Tree Replacement Plan
USACE	U.S. Army Corps of Engineers
USDOI	U.S. Department of the Interior
USEIA	U.S. Energy Information Administration
USFWS	U.S. Fish and Wildlife Service
USGS	U.S. Geological Survey
V/C	Volume to capacity
VAFB	Vandenberg Air Force Base
VHFHSZ	Very High Fire Hazard Severity Zone
VHFSZ	Very High Fire Severity Zone
WCP	Weed Control Plan
WEAP	Worker education and awareness program
WGI	Working Group I
WTG	Wind Turbine Generator

This page intentionally left blank.