

July 3rd, 2025

Western Electricity Coordinating Council
155 North 400 West, Suite 200
Salt Lake City, Utah 84103-1114

Re: Comprehensive Progress Report for Antelope 2 Solar

To the Western Electricity Coordinating Council,

AES Clean Energy is developing a 650 MW_{AC} Solar PV and Battery Energy Storage System (“BESS”) project in Lancaster, California, under the California Independent System Operator’s jurisdiction with the Southern California Edison Company as the Participating Transmission Operator. The project is expected to achieve Commercial Operation over eleven phases, with the earliest phase achieving Commercial Operation in November 2018, and the last phase expected to reach Commercial Operation in 2027. Eight phases of the project will connect to the Big Sky North collector substation where the output will be collected and stepped up from 34.5 kV to 230 kV. All eleven phases of the project will connect to a shared substation named Big Sky Substation (where phase 3’s output will step up to 220 kV), and will then connect to the Point of Interconnection at the 220 kV bus of Antelope Substation via a customer-owned overhead 220 kV generator tie-line (“Big Sky-Antelope 220 kV Line”).

Phase 1 of the project, named Antelope Expansion 2, LLC, has a nameplate capacity of 105 MW_{AC}, and is located at 9611 West Avenue G, Lancaster, California, 93536. Phase 1 consists of thirty-five (35) Power Electronics FS3150MU solar inverters and seventeen (17) GPTech 3MsWD3-V730 battery inverters; both these solar inverters and battery inverters have an integrated transformer with output at 34.5 kV, with a medium voltage gen-tie line connecting the project site to the Big Sky North collector substation. The combined output will then be stepped-up to 230 kV via a 141/188/241 MVA grid step-up transformer shared between phases 1, 2, 4, 5, 8 and 11, then connect to the Big Sky Substation via a 230 kV gen-tie line. Phase 1 achieved Commercial Operation on December 24, 2018.

Phase 2 of the project, named San Pablo Raceway, LLC, has a nameplate capacity of 60 MW_{AC}, and is located at 45960 90th Street West, Lancaster, California 93536. Phase 2 consists of twenty-four (24) SMA Sunny central 2750-EV-US inverters; each inverter’s output will be stepped up with a generator transformer from 600 V to 34.5 kV, with a medium voltage gen- tie line connecting the project site to the Big Sky North collector substation. The combined output will then be stepped-up to 230 kV via a 141/188/241 MVA grid step-up transformer shared between phases 1, 2, 4, 5, 8 and 11, then connect to the Big Sky Substation via a 220 kV gen-tie line. Phase 2 achieved Commercial Operation on October 11, 2019.

Phase 3 of the project, named San Pablo Raceway, LLC, has a nameplate capacity of 40 MW_{AC}, and is located at 45960 90th Street West, Lancaster, California 93536. The project consists of sixteen (16) SMA Sunny central 2750-EV-US inverters; each inverter’s output will be stepped



up with a generator transformer from 600 V to 34.5 kV, with a medium voltage gen-tie line connecting the project site to the Big Sky Substation. The combined output will then be stepped-up to 220 kV via a 30/40/50 MVA grid step-up transformer and connect to the Point of Interconnection at the Antelope 220 kV bus. Phase 3 achieved Commercial Operation on October 11, 2019.

Phase 4 of the project, named Antelope Expansion 3A, LLC, has a nameplate capacity of 15 MW_{AC} and is located at 46536 110th St W Unit A, Lancaster, California 93536. Phase 4 consists of five (5) Sungrow 3150 inverters. Each inverter's output will be stepped up with a generator transformer from 630 V to 34.5 kV, with a medium voltage gen-tie line connecting the project site to Big Sky North collector substation. The combined output will then be stepped-up to 230 kV via a 141/188/241 MVA grid step-up transformer shared between phases 1, 2, 4, 5, 8 and 11, then connect to the Big Sky Substation via a 220 kV gen-tie line. Phase 4 achieved Commercial Operation on June 22, 2021.

Phase 5 of the project, named Antelope Expansion 3B, LLC, has a nameplate capacity of 5 MW_{AC} and is located at 46536 110th St W Unit B, Lancaster, California 93536. The project consists of eight (8) TMEIC PVU-LO0880GR inverters. Each inverter's output will be stepped up with a generator transformer from 660 V to 34.5 kV, with a medium voltage gen-tie line connecting the project site to Big Sky North collector substation. The combined output will then be stepped-up to 230 kV via a 141/188/241 MVA grid step-up transformer shared between phases 1, 2, 4, 5, 8 and 11, then connect to the Big Sky Substation via a 220 kV gen-tie line. Phase 5 achieved Commercial Operation on June 22, 2021.

Phase 6 of the project, named Luna Storage, LLC, is a BESS-only phase of the project with a nameplate capacity of 100 MW_{AC} located at W Ave J & 100th St. W, Lancaster, California 93536. Phase 6 consists of ninety (90) EPC Power CAB100-AC690 inverters. Each inverter's output will be stepped up with a generator transformer from 690 V to 34.5 kV. The combined output will then be stepped-up to 230 kV via a 72/96/120 MVA grid step-up transformer and connect to the Big Sky Substation. This phase achieved Commercial Operation on August 3, 2022.

Phase 7 of the project, named Lancaster Area Battery Storage, LLC, is a BESS-only phase with a nameplate capacity of 127 MW_{AC}, and is located at W Ave J & 100th St. W, Lancaster, California 93536. Phase 7 consists of one hundred and eight (108) EPC Power CAB1000- AC3L.2 inverters. Each inverter's output will be stepped up with a generator transformer from 690 V to 34.5 kV. The combined output will then be stepped-up to 230 kV via a 72/96/120 MVA grid step-up transformer and connect to the Big Sky Substation. This phase achieved Commercial Operation on September 2, 2022.

Phase 8 of the project, named Antelope Expansion 1B, has a nameplate capacity of 17 MW_{AC}. Phase 8 consists of eight (8) Power Electronics FS2200CU inverters. Each inverter's output will be stepped up with a generator transformer from 440 V to 34.5 kV, with a medium voltage gen-tie line connecting the project site to Big Sky North collector substation. The output will then be stepped-up to 230 kV via a 141/188/241 MVA grid step-up transformer and connect to the Big Sky Substation via a 220 kV gen-tie line. Phase 8 achieved Commercial Operation on



November 30, 2022.

Phase 9 of the project is an AC-coupled solar and storage project, named Raceway Solar 1, LLC, and has a nameplate capacity of 125 MW_{AC}. Phase 9 consists of thirty-eight (38) Sungrow SG3600UD solar inverters and sixty-three (63) EPC Power CAB1000-AC3L2 battery inverters. Each solar inverter's output will be stepped up with a generator transformer from 630 V to 34.5 kV and each battery inverter's output will be stepped up with a generator transformer from 690 V to 34.5 kV. The output will then be stepped-up to 230 kV via a 126/170/210 MVA grid step-up transformer and connect to the Polaris -Big Sky North Substation via a 230 kV gen- tie line and then connect to Big Sky North Substation via 220 kV gen-tie line. Phase 9 achieved Commercial Operation Date of December 28, 2023.

Phase 10 of the project is an AC-coupled solar and storage project, named Estrella Solar, LLC, and has a nameplate capacity of 56 MW_{AC}. Phase 10 consists of seventeen (17) Sungrow SG3600UD solar inverters and twenty-four (24) EPC Power CAB1000-AC3L2 battery inverters. Each solar inverter's output will be stepped up with a generator transformer from 630 V to 34.5 kV and each battery inverter's output will be stepped up with a generator transformer from 690 V to 34.5 kV. The output will then be stepped-up to 230 kV via a 126/170/210 MVA grid step-up transformer and connect to the Polaris- Big Sky North Substation via a 230 kV gen- tie line, and then connect to Big Sky North Substation via 220 kV gen-tie line Phase 10 achieved Commercial Operation Date of December 29, 2023.

Phase 11 of the project, named AES ES Antelope Expansion 2, LLC, is ac-coupled Battery Storage BESS that will be added to phase 1. The nameplate capacity for this phase is 23.88 MW (4 hr). Phase 11 consists of twenty -seven (27) GPTECH 3MsWD3-V730 battery inverters. Each inverter's output will be stepped up with a generator transformer from 730 V to 34.5 kV and each battery inverter's output will be stepped up with a generator transformer from 790 V to 34.5 kV. The combined output will then be stepped-up to 230 kV via a 141/188/241 MVA grid step-up transformer shared between phases 1, 2, 4, 5, 8 and 11, then connect to the Big Sky Substation via a 230 kV gen-tie line. Phase 11 will achieve Commercial Operation in August 2027.

Please reference the attachments, including utility studies and single line diagrams, and do not hesitate to contact me with any questions you may have about the project.

Sincerely,



Jacob Pundyk
Director, Interconnection
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(310) 625-7281

Antelope Expansion 1B,
LLC Antelope Expansion 2,
LLC Antelope Expansion
3A, LLC Antelope
Expansion 3B, LLC San
Pablo Raceway, LLC Big
Sky North, LLC
Luna Storage, LLC



<Public>

Lancaster Area Battery storage, LLC
Estrella Solar, LLC
Raceway Solar 1, LLC
AES ES Antelope Expansion 2, LLC

AES Clean Energy | 201 Mission Street, Suite 540 | San Francisco, CA 94941

Electronic Record of Contracts

This document was generated as a record of certain contracts created, accepted and stored electronically.



Summary of Contracts

This document contains the following contracts.

Title	ID
WECC progress report (WECC and AES)	7a9a2033-49e1-405b-8975-d797a6958a05

Contract signed by:

Jacob Pundyk		Signer ID:	00c5bf19-6a2a-4dc4-b97d-6246142273ae
		Email:	jacob.pundyk@aes.com
Date / Time:	Jul 9, 2025 at 6:30 PM EDT		
IP Address:	73.71.126.89		
User Agent:	Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/138.0.0.0 Safari/537.36		