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April 8, 2026

Bryan Fields
Superintendent
Joseph City Unified School District
8176 Westover
Joseph City, AZ 86032

Re: Post Construction Measurement and Verification (M&V) Report for Performance Year 11 for the Solar Photovoltaic Systems at Joseph City Unified School District.

Dear Mr. Fields,

Ameresco is pleased to present you with the annual audit of the energy production guaranteed in our agreement dated April 30, 2014 and as Amended on October 8, 2019. This audit covers the time period of 01/01/2025 through 12/31/2025, which is considered to be Performance Year 11. The savings for Year 11 are listed below:

Savings Year 11:	\$ 145,835
Guarantee for Year 11:	\$ 149,040
Cumulative Deviation:	\$ (3,205)

This audit completes the measurement and verification activities for Year 11. The Annual M&V Fee in the amount of \$1,646 will be credited toward the shortfall, resulting in a check issued for \$1,559.

If you have any questions or concerns that you would like to discuss, I am available to you, your staff or anyone at the Joseph City Unified School District at any time. Please feel free to contact me using the information below.

Sincerely,

Jared Hughes, CEM, CMVP
Director – Performance Assurance
O: 312 994 8646
jahughes@ameresco.com

Prepared For

Joseph City USD

April 2026

Measurement and Verification

Energy Savings Report for the Solar PV Project Year 11

Presented by

Ameresco, Inc.

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AMERESCO 

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1.0 Report Summary

1.1 Report Period

This report includes Measurement and Verification (M&V) data for the Joseph City Unified School District (JCUSD) Solar PV Project in Joseph City, Arizona, during Year 11 of the reporting period. The Measurement and Verification Amendment signed October 8, 2019 reassigned the Measurement and Verification start date to January 1, 2015, making 2025 the eleventh guarantee year. Year 11 covers the period from 1/1/2025 through 12/31/2025.

1.2 Contract Year

This report includes the Year 11 savings for JCUSD as determined by the Measurement and Verification process.

1.3 Executive Summary

JCUSD contracted with Ameresco to develop a photovoltaic solar system to provide on-site generated power interconnected with the electrical grid. The table below lists the site and meters associated with this project as well as each site's substantially and final complete dates

Table 1.1. Site Information

Site	Meter Number	Substantially Complete	Final Completion
High School	EE4407	1/15/2015	12/12/2016
Auditorium	EE4377	1/15/2015	12/12/2016
Elementary School	EE4459	1/15/2015	12/12/2016

1.4 Inverter Adjustments

During the Year 11 performance period, three (3) inverters serving the elementary school experienced internal hardware failures that reduced overall system availability. In June, Inverters C01 and C06 were observed to be offline with an internal fault. Inverter C03 experienced the same fault at the end of July. Ameresco technicians performed manufacturer recommended troubleshooting, including verification of electrical connections, voltages, and torque values. When this did not resolve the issue, it was determined that these three (3) inverters required replacement under warranty.

The new inverters were installed on January 13th, and normal production resumed. During the failure period, the reduced availability of these inverters resulted in under-production relative to the expected performance under the available solar conditions. Therefore, production adjustments were calculated to account for the inverter failures. A total of 33,871 kWh was added to the actual delivered kWh.

1.5 Energy Cost Savings Report

Table 1.2 summarizes the annual energy cost savings, as determined by the value of solar defined in the feasibility study, incentives by APS, and metering of production during Year 11.

Table 1.2. Year 11 Savings

	A	B	C = A x B	D	E = C + D	F	G = E - F
Site Location	VOS (Baseline Utility Cost), \$/kWh	Actual Annual Solar Delivered, kWh	Value of Solar Production (\$)	Total APS Incentives	Total Annual Energy and Savings & APS Incentives	Total Annual Financing & Operating Costs	Total Annual Energy and Cost Savings
High School	\$ 0.127	331,834	\$ 42,099	\$ 23,228	\$ 65,327	-	-
Auditorium	\$ 0.127	119,821	\$ 15,201	\$ 8,387	\$ 23,589	-	-
Elementary	\$ 0.127	289,126	\$ 36,680	\$ 20,239	\$ 56,919	-	-
TOTALS:	-	740,780	\$93,980	\$51,855	\$ 145,835	\$ 149,040	(\$3,205)

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Primary Point of Contact

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