



PALMDALE WATER DISTRICT
A CENTURY OF SERVICE

Tesla Battery System

August 2022

CONTENT

Timeline

May 2020 – Contacted by Tesla to look into Battery Back Up System

June 2020 – Selected 4 sites out of 13

3rd Quarter 2020 – Data Extraction, Agreement Development and Review

4th Quarter 2020 – Sign SGIP-ER application; Tesla starts to prepare plans

January 2021 – Signed Consent of Assignment & Grid Service Program



CONTENT

Timeline

April 2021 – Started construction of Well 5 & Underground Booster

July 2021 – Completion of Well 5 and Underground Booster

August 2021 – Switch Project Manager at Tesla

September 2021 – Re-evaluate 45th St. Booster for SCE approval

October 2021 – Received approval for SCE and started construction

2nd Quarter 2022 – SCE 3rd Party Inspection



Stakeholder

Project Manager: Tesla Team

Construction: BEI Construction

Tesla Inspectors: Mark III Construction, Inc.

Edison Inspector: AESC, Inc.

Staffs: Engineering & Facilities





Energy Rating: 928 kWh
Output Power: 210 kW



Well 5 Booster
Station (17
hours backup
power)



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Well 5 Booster



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Underground Booster



Energy Rating: 696 kWh
Output Power 140 kW
24.5 hours backup power



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Underground Booster



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Energy Rating: 1408 kWh
Output Power: 350 kW
14.8 hours backup power



3M Reservoir Site



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3M Reservoir Site



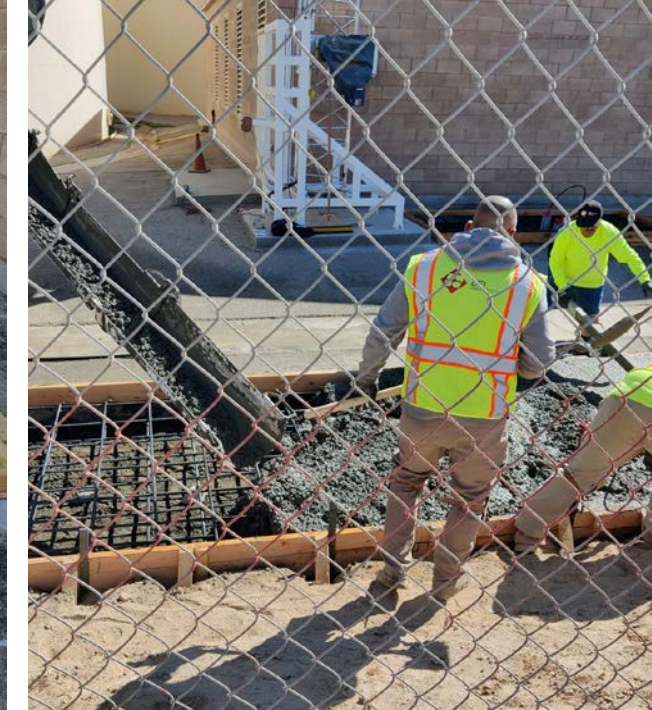
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Energy Rating: 2965 kWh
Output Rating: 572 kW



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45th Street Site
(10.5 hours backup power)



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45th Street Site



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Value

Site Name	Value	Estimate Saving – 10 Years	20 Years
45 th Street Boosters	\$2,036,617	\$232,978	\$503,092
3M Boosters	\$1,053,216	\$38,395	\$82,909
Underground Boosters	\$619,524	\$52,195	\$112,709
Well 5 Boosters	\$763,072	\$92,826	\$200,449

Constructions: \$400,000

Total Value: \$4,872,429



QUESTIONS?



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