

SOLAR + BATTERY vs GENERATOR - CARBON FOOTPRINT & FUEL SAVINGS REPORT

SHOW E : Analysis Period: 17th-23rd Aug, 2026 | 24 Sites



PARAMETERS & ASSUMPTIONS			
Fuel Cost per Liter (\$):	\$2.25		
CO2 Emission Factor (kg CO2/L):	2.68		
Generator Efficiency (kWh/L):	3.00		
Generator Type:	1200 Amp Tier 3 (shared), 10 L/hour at idle (<15% load)		

DAILY SUMMARY BY DATE							
Date	Solar+Battery (kWh)	Grid+Generator (kWh)	Total (kWh)	Solar+Battery %	Fuel Saved (L)	Fuel Cost Saved (\$)	CO2 Avoided (kg)
17th Aug	419.1	23.6	442.7	94.67%	139.70	\$314.33	374.40
18th Aug	412.2	23.9	436.1	94.52%	137.40	\$309.15	368.23
19th Aug	366.8	0.0	366.8	100.00%	122.27	\$275.10	327.67
20th Aug	356.5	0.0	356.5	100.00%	118.83	\$267.38	318.47
21st Aug	383.2	1.8	385.0	99.53%	127.73	\$287.40	342.33
22nd Aug	230.7	0.1	230.8	99.96%	76.90	\$173.03	206.09
23rd Aug	174.8	2.2	177.0	98.76%	58.27	\$131.10	156.15
WEEKLY TOTAL	2343.3	51.6	2394.9	97.85%	781.10	\$1,757.48	2,093.35

KEY ENVIRONMENTAL & FINANCIAL IMPACT			
Metric	Value	Metric	Value
Total Solar+Battery Energy (kWh)	2343.3	Total CO2 Emissions Avoided (kg)	2,093.35
Total Grid+Generator Energy (kWh)	51.6	CO2 Avoided (Metric Tons)	2.09
Overall Solar+Battery Utilization	97.85%	Equivalent Trees Planted*	100
Total Fuel Saved (Liters)	781.10	Avg Daily Fuel Savings (L)	111.59
Total Cost Savings (\$)	\$1,757.48	Avg Daily Cost Savings (\$)	\$251.07

* Equivalent to trees absorbing CO2 for one year (based on ~21 kg CO2/tree/year)

SITE-BY-SITE WEEKLY PERFORMANCE SUMMARY							
Site	Total Solar+Battery (kWh)	Total Grid+Gen (kWh)	Total Energy (kWh)	Avg Solar %	Fuel Saved (L)	Cost Saved (\$)	CO2 Avoided (kg)
2RM CAST TRAILER-1	121.5	0.0	121.5	100.00%	40.50	\$91.13	108.54
2RM CAST TRAILER-2	72.6	0.0	72.6	100.00%	24.20	\$54.45	64.86
2RM CAST TRAILER-3	146.7	5.0	151.7	96.70%	48.90	\$110.03	131.05
2RM CAST TRAILER-4	105.3	0.0	105.3	100.00%	35.10	\$78.98	94.07
2RM CAST TRAILER-5	138.6	0.0	138.6	100.00%	46.20	\$103.95	123.82
2RM CAST TRAILER-6	17.4	0.0	17.4	100.00%	5.80	\$13.05	15.54
3RM CAST TRAILER-1	130.3	0.0	130.3	100.00%	43.43	\$97.73	116.40
3RM CAST TRAILER-2	155.1	0.0	155.1	100.00%	51.70	\$116.33	138.56
3RM CAST TRAILER-3	108.4	4.1	112.5	96.36%	36.13	\$81.30	96.84
8RM CAST TRAILER-1	115.1	7.5	122.6	93.88%	38.37	\$86.33	102.82
8RM CAST TRAILER-2	36.7	0.0	36.7	100.00%	12.23	\$27.53	32.79
10-ST HAIR&MAKEUP	119.6	0.0	119.6	100.00%	39.87	\$89.70	106.84
8-ST HAIR&MAKEUP-1	146.0	9.5	155.5	93.89%	48.67	\$109.50	130.43
8-ST HAIR&MAKEUP-2	58.4	0.0	58.4	100.00%	19.47	\$43.80	52.17
COSTUME TRAILER	91.0	0.0	91.0	100.00%	30.33	\$68.25	81.29
10-TON BG-1	5.0	0.0	5.0	100.00%	1.67	\$3.75	4.47
10-TON BG-2	97.9	0.0	97.9	100.00%	32.63	\$73.43	87.46
PROPS TRUCK	105.5	0.0	105.5	100.00%	35.17	\$79.13	94.25
CAMERA-1	133.5	0.0	133.5	100.00%	44.50	\$100.13	119.26
CAMERA-2	164.1	21.2	185.3	88.56%	54.70	\$123.08	146.60
OFFICE-1	64.1	2.3	66.4	96.54%	21.37	\$48.08	57.26
OFFICE-2	72.5	2.0	74.5	97.32%	24.17	\$54.38	64.77
OFFICE-3	56.3	0.0	56.3	100.00%	18.77	\$42.23	50.29
WASHROOM	81.7	0.0	81.7	100.00%	27.23	\$61.28	72.99
TOTAL (All Sites)	2343.3	51.6	2394.9	97.85%	781.10	\$1,757.48	2,093.35

METHODOLOGY & RECONCILIATION			
Step	Calculation / Basis	Formula Reference	Current Result
1. Source period	Daily totals are pulled from each current daily tab total row: 17th Aug through 23rd Aug.	Daily tabs total rows	7 daily tabs; 24 distinct sites
2. Solar utilization	Solar+Battery % = Solar+Battery kWh ÷ Total kWh.	97.85%	97.85%
3. Fuel saved			
4. Cost saved	Fuel cost savings use the updated fuel cost assumption.	\$1,757.48	\$1,757.48
5. CO2 avoided	CO2 avoided uses the Standard Diesel factor from the assumptions block.	2,093.35	2,093.35
6. Trees equivalent	Trees equivalent uses the report note of 21 kg CO2/tree/year.	99.68	100.00
7. Reconciliation check	The site table total row equals the daily weekly total row for energy, fuel, cost, and CO2.	Row 56 vs Row 19	OK

