

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

SHOW D : Analysis Period: June 8–14, 2026 | 14 Sites | Current telemetry tabs

PARAMETERS & ASSUMPTIONS

Fuel Cost per Liter (\$):	\$1.94
CO ₂ Emission Factor (kg CO ₂ /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 (\$)	CO ₂ Avoided (kg)
Jun 8	226.0	15.4	241.4	93.6%	75.3	\$146.15	201.9
Jun 9	232.9	0.0	232.9	100.0%	77.6	\$150.61	208.1
Jun 10	274.5	35.3	309.8	88.6%	91.5	\$177.51	245.2
Jun 11	323.0	76.9	399.9	80.8%	107.7	\$208.87	288.5
Jun 12	387.4	41.0	428.4	90.4%	129.1	\$250.52	346.1
Jun 13	320.9	0.0	320.9	100.0%	107.0	\$207.52	286.7
Jun 14	145.4	0.0	145.4	100.0%	48.5	\$94.03	129.9
WEEKLY TOTAL	1,910.1	168.6	2,078.7	91.9%	636.7	\$1,235.20	1,706.4

KEY ENVIRONMENTAL & FINANCIAL IMPACT

Metric	Value	Metric	Value
Total Solar+Battery Energy (kWh)	1,910.1	Total CO ₂ Emissions Avoided (kg)	1,706.4
Total Grid+Generator Energy (kWh)	168.6	CO ₂ Avoided (Metric Tons)	1.706
Overall Solar+Battery Utilization	91.9%	Equivalent Trees Planted*	81.3
Total Fuel Saved (Liters)	636.7	Avg Daily Fuel Savings (L)	91.0
Total Cost Savings (\$)	\$1,235.20	Avg Daily Cost Savings (\$)	\$176.46

* 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)	Solar+Battery %	Fuel Saved (L)	Cost Saved (\$)	CO ₂ Avoided (kg)
CAST TRAILER 1RM-1	36.9	0.0	36.9	100.0%	12.3	\$23.86	33.0
CAST TRAILER 1RM-2	89.5	0.0	89.5	100.0%	29.8	\$57.88	80.0
CAST TRAILER 3RM-1	147.3	0.0	147.3	100.0%	49.1	\$95.25	131.6
CAST TRAILER 3RM-2	166.8	0.0	166.8	100.0%	55.6	\$107.86	149.0
CAST TRAILER 3RM-3	162.9	0.0	162.9	100.0%	54.3	\$105.34	145.5
CAST TRAILER 3RM-4	137.9	34.0	171.9	80.2%	46.0	\$89.18	123.2
CAST TRAILER 8RM-1	197.2	0.0	197.2	100.0%	65.7	\$127.52	176.2
10ST HAIR & MAKEUP	147.5	45.2	192.7	76.5%	49.2	\$95.38	131.8
COSTUME TRAILER	228.8	0.0	228.8	100.0%	76.3	\$147.96	204.4
PROPS TRUCK	93.1	0.0	93.1	100.0%	31.0	\$60.20	83.2
CAMERA TRUCK	180.6	23.8	204.4	88.4%	60.2	\$116.79	161.3
OFFICE 1	126.0	33.5	159.5	79.0%	42.0	\$81.48	112.6
OFFICE 2	121.0	32.1	153.1	79.0%	40.3	\$78.25	108.1
WASHROOM	74.6	0.0	74.6	100.0%	24.9	\$48.24	66.6
SITE TOTALS	1,910.1	168.6	2,078.7	91.9%	636.7	\$1,235.20	1,706.4

METHODOLOGY & NOTES
Calculation Methodology:
• Solar+Battery (kWh) = daily maximum PV Today + daily maximum Battery Discharge Today from each current telemetry tab.
• Grid+Generator (kWh) = daily maximum Grid Buy Today + generator energy based on recorded daily runtime × 10 L/hour × 3 kWh/L.
• Fuel Saved (L) = Solar+Battery Energy ÷ Generator Efficiency (3 kWh/L, conservative).
• Fuel Cost Saved = Fuel Saved × \$1.94/L.
• CO ₂ Avoided = Fuel Saved × 2.68 kg CO ₂ /L (standard diesel).
• Generator: 1200 Amp Tier 3 shared unit, 10 L/hour at idle (<15% load).
Report recalculated from current tabs: August 20, 2026

GRAPHICAL PERFORMANCE SUMMARY

