

SIMPLE, SAFE & SILENT LIGHTING SOLUTIONS



Simple

- Light sensors for automatic turn on and off are standard park and forget
- Designed with limited moving parts, mechanics and 240V electricians are not needed to operate or service these units
- On the featured model we have used 6 panels to charge the battery bank and only 4 hours of optimal sunlight is required to run the lights for 12hrs.

Safe

- Can be towed by a utility and easily maneuvered by 1 person
- No UV radiation from LED lights (like in mercury vapour and metal halide lamps)
- No exhaust emissions or heat from engines
- No electrical hazards

Silent light

- No engine noise perfect for workshop hardstands, events, living quarters
- No noise from LED lights

Solution for reducing operating costs

- No diesel fuel costs, see the example overleaf
- No need for regular servicing
- Hire 40 solar units for the cost of 10 diesel units

Solution for lighting in remote locations

- No need for diesel deliveries, electricians or mechanics
- Work and sleep without background noise of diesel engines
- Purpose built to provide coverage for an entire night shift with adequate back up for 6 nights

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THE VALUE OF SOLAR

- ✓ Solar towers are 25% of the cost of diesel units
- ✓ Hire 40 solar powered towers for the cost of 10 diesel powered units
- ✓ Eliminate CO² and noise emissions
- ✓ Reduce overall annual fuel bill



MONTHLY COST COMPARISON

	1 unit	10 units	20 units	30 units
Cost of Solar per month				
Weekly hire @ \$350/unit over 4 weeks	\$1,400	\$14,000	\$28,000	\$42,000
Time to clean panels once/wk over 4 wks	1hr	10hrs	20hrs	30hrs
Cost of operator to clean panels once/wk over 4wks	\$45	\$450	\$900	\$1,350
Total maintenance time	1hr	10hrs	20hrs	30hrs
Total cost	\$1,445	\$14,450	\$28,900	\$43,350

assumed cleaning takes 15min/unit costs \$45/hr

	1 unit	10 units	20 units	30 units
Cost of diesel units per month				
Cost of hire @ \$400/unit	\$1,600	\$16,000	\$32,000	\$48,000
Serviceman's time oil change and maintenance	3hrs	30hrs	60hrs	90hrs
Cost of serviceman @ \$75/hr	\$225	\$2,250	\$4,500	\$6,750
Operators time starting and shutting down	30hrs	300hrs	600hrs	900hrs
Cost of operator @ \$45/hr	\$1,350	\$13,500	\$27,000	\$40,500
Operators time refuelling	7.5hrs	75hrs	150hrs	225hrs
Cost of operator @ \$45/hr	\$338	\$3,375	\$6,750	\$10,125
Electricians time to maintain globes and wiring	2hrs	20hrs	40hrs	60hrs
Cost of electrician @ \$85/hr	\$170	\$1,700	\$3,400	\$5,100
Cost of fuel \$1.50/L and 100L per unit every 2 days	\$2,250	\$22,500	\$45,000	\$67,500
Total maintenance time	42.5hrs	425hrs	850hrs	1275hrs
Total cost	\$5,933	\$59,325	\$118,650	\$177,975

assumed serviceman attends unit once per month for 3hrs for service of unit
 assumed refuel every 2nd day 30 min per unit
 assumed start-up and shut down 30 minutes per unit each time = 1hr/unit/day
 assumed electricians time 2hrs every month per unit

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