Resort Fleet Sizing Worksheet

Source: South African Resort & Lodge Electric Fleet Planning Guide — Vehicles, Charging and Operating Costs
Prepared by: GMTLSV Application Engineering Team

Illustrative Resort Fleet Planning Scenario

The following is an illustrative planning example, not a completed GMTLSV customer project or a measured vehicle test.

Consider a resort that needs four electric vehicles for different daily tasks:

Vehicle	Main role	Illustrative daily distance
6-seater	Regular guest transfers	40 km
4-seater	VIP and short-distance movements	20 km
8-seater (6+2)	Group transfers during peak periods	30 km
Utility vehicle	Luggage and maintenance support	15 km
Total	Four-vehicle fleet	105 km

If an illustrative energy consumption of 0.15 kWh/km is used across the fleet, the estimated daily drive energy is:

105 km × 0.15 kWh/km = 15.75 kWh per day

This is a preliminary planning figure. Actual energy consumption should be measured separately for each vehicle configuration and route, particularly where the fleet includes 4WD vehicles, enclosed cabins, air conditioning or frequent operation on sand and gravel.

The example demonstrates why a resort should plan its fleet around different operating tasks rather than purchasing four identical vehicles simply because they are available from the same supplier.

How to use this worksheet

Replace the illustrative daily distances with your own route data, then multiply total daily kilometres by your measured or assumed energy consumption (kWh/km). Use the result as an input to your charging-window and charging-power calculation.

For a site-specific fleet review, contact:
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