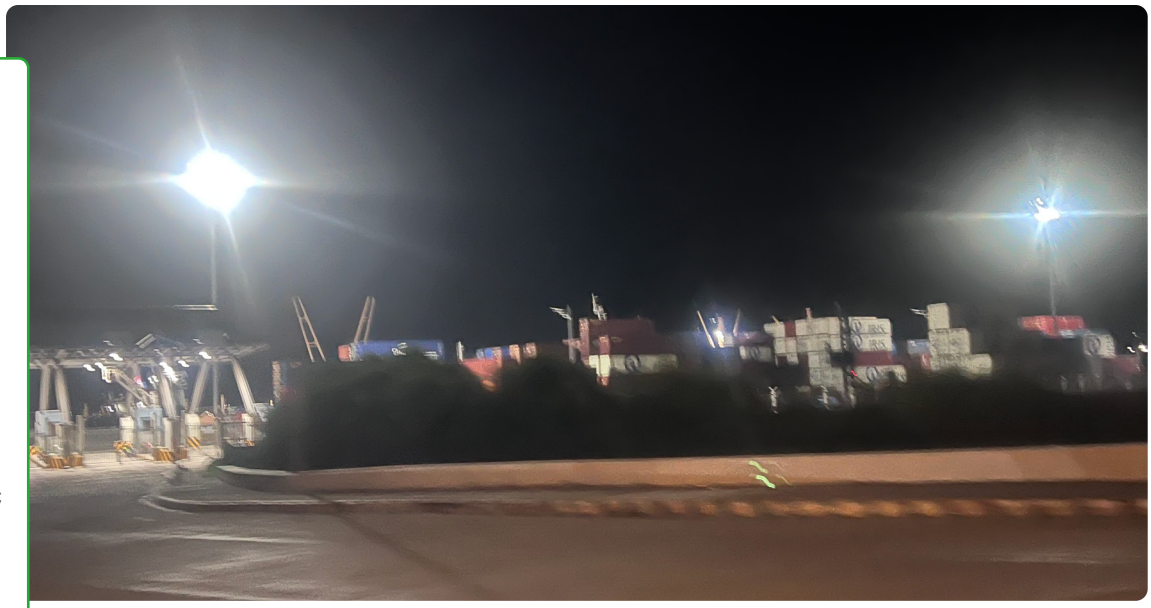
PROJECT EXPERIENCE : PHILIPPINES

SUNMASTER

SunMaster Solar Street Lights Weather the Storms in Cagayan de Oro



Location
Cagayan de Oro, Mindanao, Philippines

Client
Local Government Unit

Project Quantity
1,200 units

Products Used
Solar Panel: 150W Mono x2pc;
LED Lamp: 60W x2pc;
Battery: 12V 100AH LiFePO4 x2pc;
Controller: MPPT 12V 20A x2pc;
Lamp Pole: 9m Hot-dip Galvanized



Introduction

The Philippines is one of the most typhoon-prone countries on Earth, with an average of 20 tropical cyclones sweeping through its islands every year. Cagayan de Oro, a major city on the island of Mindanao in the southern Philippines, sits squarely in the path of these powerful storms, where violent winds and torrential rains frequently knock out power lines and plunge the city and its highways into darkness for days at a time. Faced with this harsh reality, the local government has long searched for lighting solutions that can survive the weather. SunMaster has answered that call, delivering a robust solar street lighting system for the city’ s highways and municipal facilities — one that keeps shining when the grid cannot, providing safety and peace of mind for residents and travelers alike.

Built to Weather the Storm

Every SunMaster light installed in Cagayan de Oro is engineered for extreme resilience. The hot-dip galvanized lamp poles resist rust and corrosion even after years of monsoon rain and salt-laden coastal air, while the light-weight aircraft-grade aluminum alloy housing withstands high wind loads without cracking or deforming. All electrical components are IP67 waterproof-rated and fully sealed against driving rain, humidity and temporary

flooding. When a super typhoon batters the region — bringing winds of up to 200 kilometers per hour — conventional lights may topple, but SunMaster poles stay standing and the lights keep burning.

Light When the Grid Goes Dark

Typhoon season in the Philippines often means days of blackouts as power infrastructure struggles to recover. It is precisely during these critical hours that SunMaster's solar street lights prove their value: they operate completely independently of the grid. Each unit stores a full night's worth of energy in its high-capacity lithium battery, providing continuous illumination along highways and city streets even after prolonged storms and overcast skies. This reliable, self-powered lighting keeps evacuation routes visible during emergencies, allows rescue teams to work safely at night, and guides families home after the storm passes.

A Trusted Partner for Local Communities

Beyond typhoon resilience, SunMaster's solar street lights bring lasting benefits to everyday life in Cagayan de Oro. In areas where grid electricity remains unreliable or expensive, the lights deliver dependable night-time illumination at near-zero operating cost — no electricity bills, no diesel generators, no complicated maintenance. Communities have discovered new value in their well-lit streets: children can study at night, markets can stay open longer, and drivers feel safer on the highway after dark. SunMaster also works closely with the local government, providing technical training for municipal maintenance teams and reliable after-sales support.









Conclusion

From the highways of Cagayan de Oro to the town centers of Mindanao, SunMaster solar street lights are proving that reliable lighting does not depend on fragile power lines. By standing firm through typhoons, shining when the grid fails, and delivering daily benefits to communities, our lights have become a trusted partner for the people of the Philippines — a brighter, safer and more sustainable future that weathers every storm.



