



GE
SMART
ASIA 2018



Solar-powered RPAS for large scale aerial
inspections

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Visit us at www.sunbirds.aero

*ART
SCIENCE
BUSINESS*







Collecting data **at a large scale**

Small platform

High endurance

Automated

Low altitude / Long range



Having the cake and eating it too



HEAVY DRONES



FIXED WINGS



MULTIROTORS



ENDURANCE



PRICE



DEPLOYMENT



RANGE



Solving the equation

A man wearing sunglasses and a dark jacket is holding a large, white, solar-powered aircraft. The aircraft has long, thin wings covered in solar panels and a V-shaped tail. He is standing in a grassy field with rolling hills and trees in the background under a clear sky.

Airframe design

Solar power management

Command & Control

Data processing

The SB4 Phoenix solar powered RPAS

Hand launch (3.5kg)

Fly all day long

Flight range of 400km

Fully autonomous



HD RGB Camera

HD Camera Gimbal

Multispectral camera

Livestock Farming

www.sunbirds.aero/livestock



Water point monitoring / Fence inspection

Man efforts reduced by **80%**

Project launch in Queensland

Deployment on other cattle stations this year



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Thanks for your attention

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Appendix



Power lines monitoring



Power lines inspection for Enedis

- ✓ Preventive maintenance
- ✓ Vegetation monitoring
- ✓ Pylons inspection

Field proven technology

- ✓ Thousands of images captured
- ✓ 3D models of corridors
- ✓ Orthophotos / GSD 1cm

High potential

- ✓ 400km of corridors per flight
- ✓ Data acquisition at low cost
- ✓ Automatic & simple

Sustainable forest management



Logging operations planning

Certification documentation

FSC principle compliance

Intact forest landscape (IFL) conservation

