

SELF-RELIANT OPERATIONS IN AFRICA

solarship 

SOLAR SHIP INC.

SELF-RELIANCE IN OPERATIONS

SUSTAINABILITY ANALYSIS

CONCLUSION / Q&A



SOLAR SHIP INC.

Toronto-based Aviation Company specializing in self-reliant operations, hybrid aircraft, aerostat systems, basing & infrastructure

Self-reliant: sustainable to the point of “operational independence” from traditional services & infrastructure

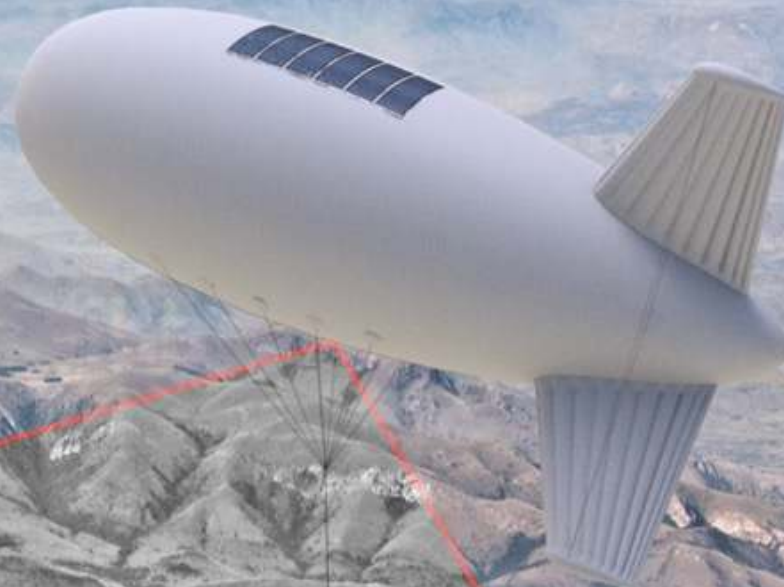
Our Mission: delivering critical cargo to disconnected communities in need / building community self-reliance

Operational Focus: Africa, Canada's North & Asia



HYBRID AIRCRAFT

- HYBRID SOLAR-ELECTRIC / FUEL CELL POWER ►
- FABRIC ENVELOPE / METAL & COMPOSITE FRAME ►
- HELIUM FILLED / BUOYANT & DYNAMIC LIFT ►



AEROSTAT SYSTEMS

SOLAR-ELECTRIC POWER ►

WIDE-AREA SURVEILLANCE & COMMUNICATIONS ►

HELIUM FILLED -30 DAYS CONTINUOUS OPERATIONS ►

OFF-GRID INFRASTRUCTURE

HYBRID SOLAR-ELECTRIC / HYDROGEN POWER ►

FABRIC STRUCTURE OVER STEEL FRAME ►

CAPABLE OF YEAR-ROUND, OFF-GRID OPERATIONS ►

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MISSION AFRICA

OPERATIONAL
NETWORK
STRETCHING FROM
SOUTH AFRICA TO
UGANDA
INCLUDING THE
GREAT LAKES
REGION

AEROSTAT SYSTEMS

HYBRID AIRCRAFT

OFF-GRID
INFRASTRUCTURE

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HYBRID AIRCRAFT	20M CARACAL (2014)	50M WOLVERINE (2018)
Buoyancy / Lifting Gas	693 m ³ / Helium	12,708 m ³ / Helium
Propulsion / Power Source	Solar Electric	Solar Electric / Hydrogen Fuel
Power Rating	3.2 kW/kg	5.2 kW/kg
Noise Level / Emissions	70 dBA / ZERO	70 dBA / ZERO
Batteries / Energy Density	LIB - 105 W-h/kg	LIB - 175 W-h/kg
Solar Panel Efficiency	78 W _p /Kg	250 W _p /kg
PV Conversion Efficiency	20%	25%
AEROSTAT	POWERSTAT-10 (2017)	POWERSTAT-14 (2018)
Buoyancy / Lifting Gas	523 m ³ / Helium/Hydrogen	1436 m ³ / Hydrogen
Power Source	Solar Electric	Solar Electric / Hydrogen Fuel

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