

# MA THOR SolarLight UAS

*Marques Aviation Ltd*



INVESTORS PITCH

# MA THOR SolarLight UAS

## Advanced-technology Hybrid Propulsion Air Platform

- Advanced-technology innovative air platform project that supersedes the capabilities of the majority of MALE UAVs.
- Hybrid solar-electric-hydrogen propulsion.
- The SolarLight can stay aloft for days and operate in diverse latitudes and weather conditions in the summer and winter months.
- High-performance sensors and a special high-bandwidth communications mesh network to transmits secure encrypted real-time surveillance video and data to command centres anywhere in the world.



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## Marques Aviation

Marques Aviation Ltd is a global aerospace company that provides innovative systems, products and solutions in unmanned aircraft systems to government and commercial clients worldwide. Our team has over 30 years experience in aircraft design. The philosophy underlying engineering practice at Marques Aviation Ltd emphasizes innovation to developed advanced high-performance unmanned aircraft.



# MA THOR SolarLight UAS

## Vision and Value Proposition

### *MA THOR SolarLight – Advanced-technology Hybrid –propulsion UAV*

The SolarLight offers superior aerial surveillance capability for diverse commercial, security and military applications.

## Unique UAV Technology

Unique unmanned aviation technology using hybrid propulsion.

Transmits live ISR data via SATCOM to any command and control station in the World.



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## **Advanced-technology Hybrid-propulsion MA THOR SolarLight**

Integrated *solar, electric* and *hydrogen fuel cells* propulsion systems.  
Superior aircraft range and endurance for persistent ISR operations.

- Multi-mission aircraft of lightweight carbon fiber composite structure.
- Multi-sensors to support persistent surveillance, military, security, and terrain mapping applications.
- Persistent day and night operation over days at a time.
- Operational in diverse latitudes at low, medium and extreme high altitudes using hybrid propulsion.
- SATCOM and proprietary communications mesh network.
- Catapult launch takeoff and parachute recovery system.
- Silent mode on approach of sensitive military targets using electric propulsion.
- Low operational cost with the implementation of solar energy technology.



# MA THOR SolarLight UAS

## **Target Market and Opportunity**

The Company has extensive global operations, and has received wide interest from commercial and military clients in the acquisition of the MA THOR SolarLight. Request range from 5 to 150 complete unmanned systems.

## **Traction and Validation**

Marques Aviation has already presented technical and commercial proposals to several government MOD clients that are evaluating the offers and planning for procurement of the MA THOR SolarLight.



# MA THOR SolarLight UAS

## **Marketing and Sales Strategy**

Marques Aviation uses their own WUEng World Congress and Exhibition to promote the SolarLight air platform. This allows us to implement key tactics to get our product in front of prospective customers. In addition, the Company exhibits in the major UAV and aviation trade shows.

## **Marques Aviation Team**

The Company is composed of high-expertise personnel with decades of experience in the field of UAVs; including aerospace engineers, military commanders, technology developers, engineers, UAV pilots, and technicians. Some of them are pioneers in the field of UAVs. The company's professional knowledge is based on many years of experience acquired by their personnel during their military service in Air Force and Defense Ministry.





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## Financials

The UAV industry has expanded dramatically in the past few years with an estimated market potential of about \$80 billion yearly by 2025 with considerable interest in civilian uses such as mapping, agriculture, oil and gas, surveillance including border protection, forestry, wild life monitoring, and security and military ISR operations.

## Competition

The lack of competition due to fairly high entry barriers and the need for large-scale initial investments means that the Company enjoys very low penetration rates in the MALE UAV sector, which gives Marques Aviation the possibility to consistently expand its customer base.





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## Investment and Use of Funds

Marques Aviation is seeking to raise \$5 million for R&D expenditures for further development of the MA THOR SolarLight. The Company has focused on the civilian, security and military UAV markets and looks for strategic partners and investment to develop the SolarLight advanced technology aerial platform and expand its sales reach in selected markets.

## Exit Strategy

Our exit strategy prioritises maximised return of investment to participating partners and investors.



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