

# New Spacecraft Projects using Advanced Solar Technology; Partnership between Ascent Solar Technologies, Inc NASDAQ: ASTI

*Ascent Solar Technologies and Momentus Team Up for Next-Gen Spacecraft Initiatives: NASDAQ: ASTI*

THORNTON, COLORADO, UNITED STATES , April 17, 2024 /EINPresswire.com/ -- New Spacecraft Projects Utilizing Advanced Solar Technology; Partnership between Ascent Solar Technologies, [Inc \(NASDAQ: ASTI\)](#) & Momentus (NASDAQ: MNTS)

For more information on \$ASTI visit <https://www.ascentsolar.com>



Leading Provider of Innovative, High-Performance, Flexible Thin-Film Solar Panel Technology.



Ascent's flexible, lightweight photovoltaic modules are ideal for the space environment"

*Paul Warley, CEO of ASTI*

Specific Applications in Environments Mass, Performance, Reliability, and Resilience are Key Considerations.

40 years of R&D, 15 years Manufacturing, Numerous Awards, and a Comprehensive IP and Patent Portfolio.

Products Used in Space Missions, Aircraft, Agrivoltaic Installations, in Industrial/Commercial Construction and Extensive Consumer Goods.

New Partnership with Momentus Bring to Market Leading-Edge Solar Arrays.

2024 Public Offering Launched for up to \$6 Million Cash Infusion.

Thin Film CIGS Technology Reached Record Power Generation of 14 Watts at Production Scale

with Thin Film.

## Substantial Debt Reduction and Plan for Full Payoff.

Ascent Solar Technologies, Inc ([NASDAQ: ASTI](#)) is backed by 40 years of R&D, 15 years of manufacturing experience, numerous awards, and a comprehensive IP and patent portfolio. ASTI is a leading provider of innovative, high-performance, flexible thin-film solar panels for use in environments where mass, performance, reliability, and resilience matter. ASTI photovoltaic (PV) modules have been deployed on space missions, multiple airborne vehicles, agrivoltaic installations, in industrial/commercial construction as well as an extensive range of consumer goods, revolutionizing the use cases and environments for solar power. The ASTI research and development center and 5-MW nameplate production facility is strategically located in Thornton, Colorado.

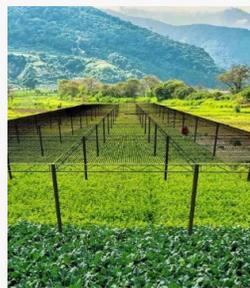
## Momentum Partnership Will Bring to Market Leading-Edge Solar Arrays

On April 17th ASTI and Momentum Inc. (NASDAQ: MNTS) announced a new partnership to jointly market leading-edge solar arrays utilizing the low-cost Tape Spring Solar Array (TASSA) being developed by Momentum and the high performance of the ASTI flexible, lightweight photovoltaic modules.

The rapid growth in the production and deployment of thousands of satellites in space has led to the burgeoning need for low-cost, reliable solar arrays with high performance. Momentum plans to add a high-power photovoltaic array as a differentiated feature of the next iteration of the



\$ASTI Headquarters



Agrivoltaics (AgPV)

Tube Solar AG uses Ascent solar films to enable farmers to successfully balance farming solar and agriculture



Drones & UAV

Silent Falcon UAV using Ascent thin films achieves a 50% range extension



Space & Defense

NASA tests validate Ascent's superior performance for space environments

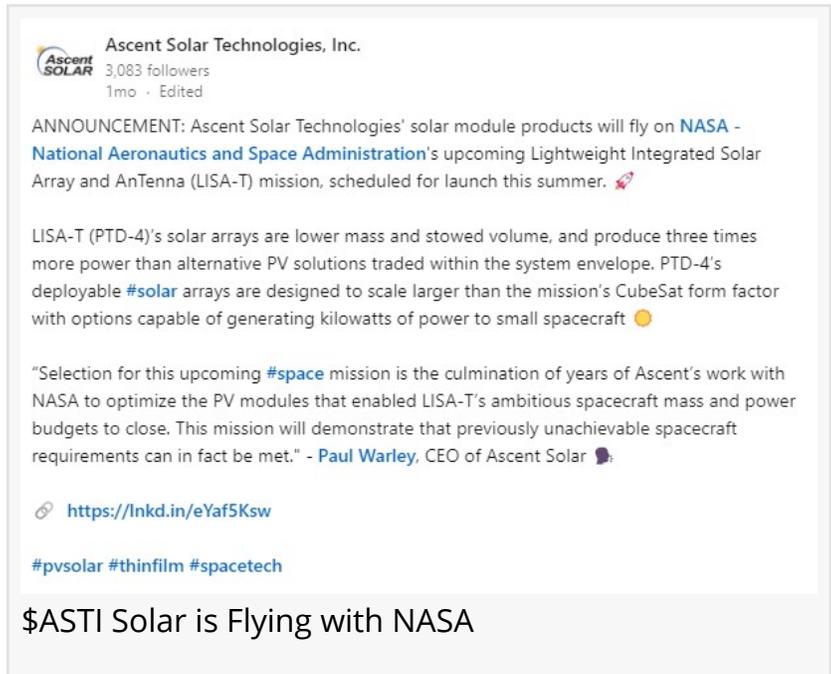
## \$ASTI Industries



\$ASTI Manufacturing

TASSA product under development. Last year's pathfinder TASSA mission demonstration validated solar blankets from ASTI as a mass efficient and robust power generation solution. Momentus plans to incorporate in TASSA new higher efficiency solar blankets from ASTI composed of space industry optimized Titan Modules, providing even lower cost per kW of power.

ASTI Announces Pricing of Public Offering for up to \$6 Million Cash Infusion



Ascent Solar Technologies, Inc.  
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ANNOUNCEMENT: Ascent Solar Technologies' solar module products will fly on [NASA - National Aeronautics and Space Administration](#)'s upcoming Lightweight Integrated Solar Array and AnTenna (LISA-T) mission, scheduled for launch this summer. 🚀

LISA-T (PTD-4)'s solar arrays are lower mass and stowed volume, and produce three times more power than alternative PV solutions traded within the system envelope. PTD-4's deployable [#solar](#) arrays are designed to scale larger than the mission's CubeSat form factor with options capable of generating kilowatts of power to small spacecraft 🌞

"Selection for this upcoming [#space](#) mission is the culmination of years of Ascent's work with NASA to optimize the PV modules that enabled LISA-T's ambitious spacecraft mass and power budgets to close. This mission will demonstrate that previously unachievable spacecraft requirements can in fact be met." - [Paul Warley](#), CEO of Ascent Solar 🇺🇸

<https://lnkd.in/eYaf5Ksw>

[#pvsolar](#) [#thinfilm](#) [#spacetech](#)

**\$ASTI Solar is Flying with NASA**

On April 10th ASTI announced the launch of a "best efforts" public offering of gross proceeds up to \$6 million at a price of \$0.14 per share of common stock. In lieu of Shares, investors can purchase one prefunded warrant to purchase a Share. The prefunded warrants are immediately exercisable at a price of \$0.0001 per Share and only expire when such prefunded warrants are fully exercised. Dawson James Securities, Inc. is acting as the exclusive placement agent for the offering.

CIGS Technology Power Generation Milestones at Production Scale with Thin Film

On March 25th ASTI announced that its thin film CIGS technology reached record power generation of 14 watts at production scale.

Since the installation of new leadership in April 2023, ASTI engineering and production teams have focused on improving their processes and chemical formulation, resulting in continuous increases in power generated from its innovative thin-film PV. The first in a series of milestones was initially announced on September 5, 2023, with subsequent improvements shared at regular intervals.

Using the AST Titan™ module to illustrate improvement, CIGS technology has steadily increased its power generation capabilities over the past seven months. The ASTI Titan™ module is approximately one square foot in size with a thickness of 0.03mm and a weight of just over eight grams.

Below are the recent calculations for power generation\* at ASTI Titan™ module dimensions:

- September 15, 2023  
11.6 watts
- October 30, 2023  
13.1 watts

- November 16, 2023  
13.3 watts
- March 20, 2024  
14.0 watts

Note: Power generation figures reflect STC conditions and AM0

ASTI anticipates reaching its next milestone of 16 watts output for the Titan™ module in the near term. The increases in power generation for its CIGS PV technology align with ASTI strategy and revenue goals for 3rd and 4th quarters 2024 and 2025, meeting the technological needs for ASTI customers in space to achieve end of life power.

#### Substantial Debt Reduction and Plan for Full Payoff

On March 21st ASTI provided a corporate update on the Securities Purchase Contract with two institutional investors previously disclosed on December 19, 2022.

It was reported that one institutional investor's notes payable and related liabilities have been completely paid out and the remaining investor has been substantially paid off with an approximate remaining notes payable balance of \$6,700 and an approximate \$200,000 of payables outstanding. It is ASTI management's intention to pay all remaining balances with this institutional investor upon completion of the next equity raise.

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