AM-STAR

Additive **M**anufacturing of
Solar-**T**hermal **A**dvanced **R**eflectors

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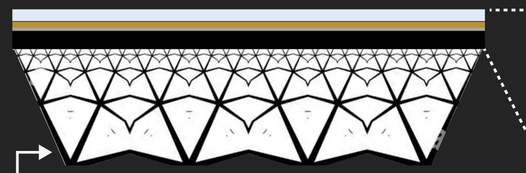
What we are solving?

To achieve the goal of decarbonizing the United States by 2050, the role of concentrating solar power is pivotal. Yet, one significant hurdle is the high manufacturing and material cost associated with heliostats.

How can we solve?

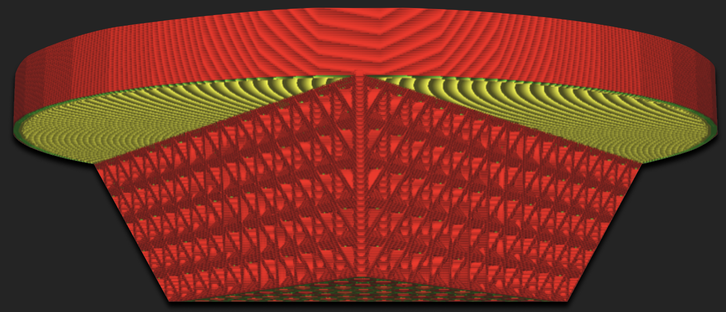
Creating cost-effective heliostats through additive manufacturing, inspired by nature's design, is poised to facilitate the extensive adoption of Concentrated Solar Power (CSP) technology.

Initial Concept → **Test & Modeling**

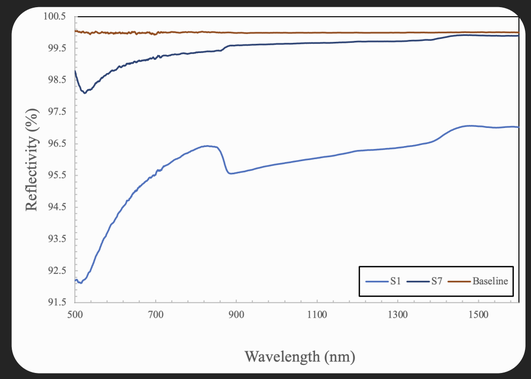


Proof of concept heliostats

Bio-Inspired
Fractal Structure



3D CAD Modeling



Initial prototype demonstrates high reflectivity