
First Principle Energy

— Let's Reinvent Energy —

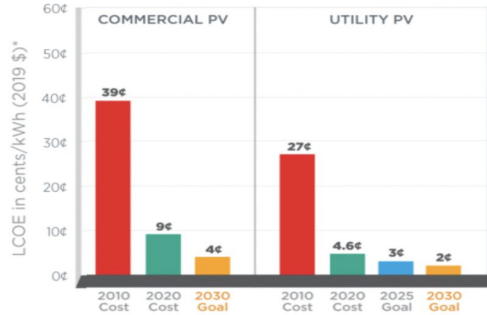
Wire Rope Mounted PV Structure

First Principle Solar - Let's Reinvent Solar

- **Company Description:** First Principle Energy is an innovative startup dedicated to making solar installations more efficient and cost-effective through our unique cable rope mounting systems.
- **Mission Statement:** Our mission is to revolutionize the solar industry by offering versatile, affordable, and easy-to-install solutions, contributing to a more sustainable future.
- **Product Highlight:** We replace traditional steel mounting structures with high-strength, weather-resistant cable ropes that are lighter, cost-effective, and adaptable to varied terrains.
- **Team:** Led by a team of experienced professionals in renewable energy, engineering, and business.
- **Achievements:** Patent pending design and preliminary design complete.
- **Vision:** Poised to disrupt the solar industry and make solar energy more accessible.

What problem are we trying to solve?

LCOE Target



Weight of Structure



High Installation Cost



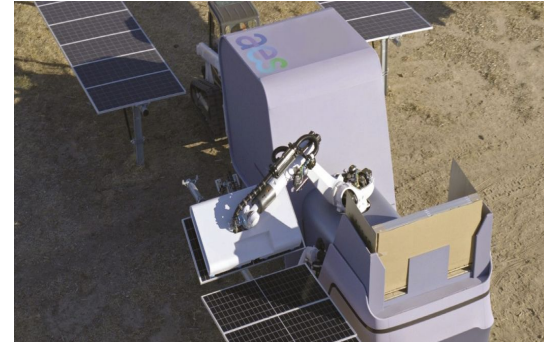
High Foundation Cost



Uneven Terrain

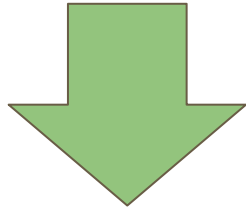


Robotic Assembly Incompatibility

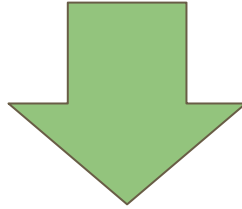


How are we solving the problem?

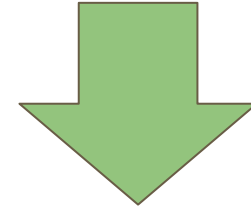
Lower LCOE



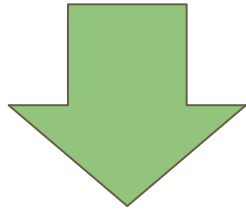
Lighter Structure



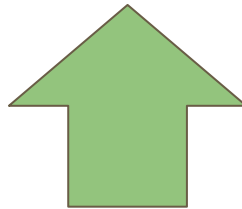
Lower Installation Cost



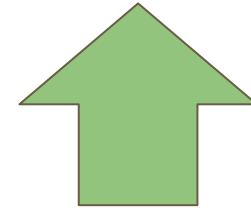
Lower Foundation Cost



High Terrain Flexibility



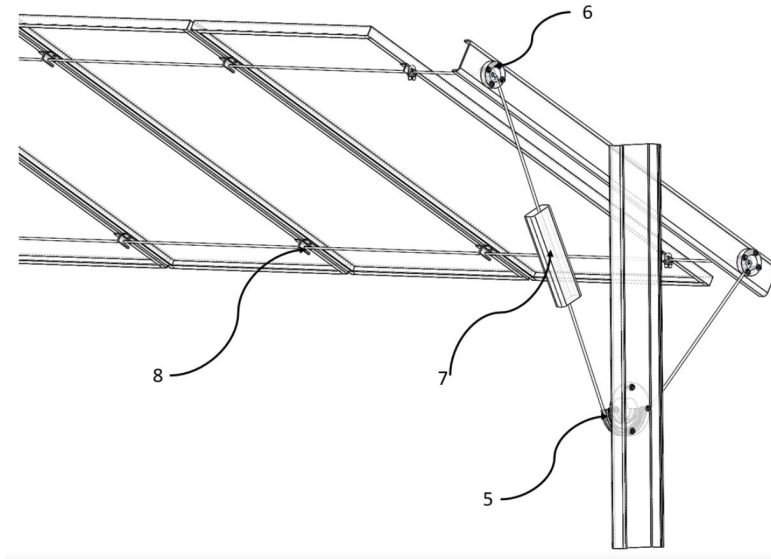
Robotic Assembly Compatibility



Accomplishments

Conceptual Design Complete

Provisional Patent Filed



P.O. Box 1450
Alexandria, VA 22313-1450
www.uspto.gov

ELECTRONIC PAYMENT RECEIPT

APPLICATION #
63/578,153

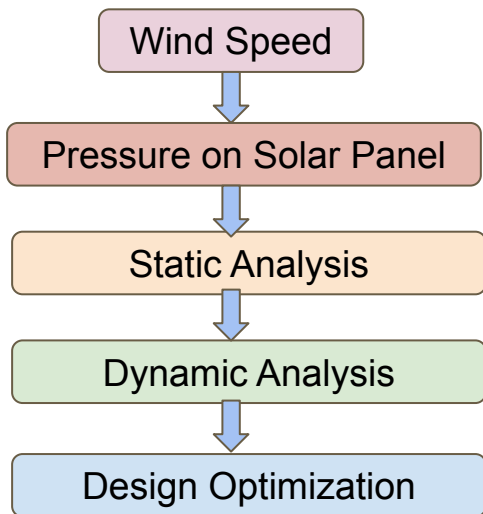
RECEIPT DATE / TIME
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Title of Invention
Wire-rope Mounted PV Structure

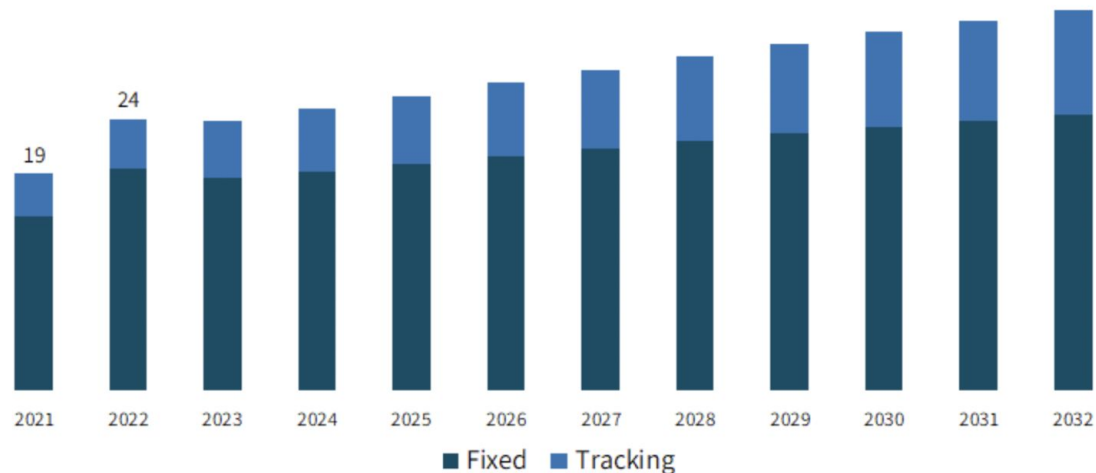
Accomplishments Cont.

Preliminary Design Complete

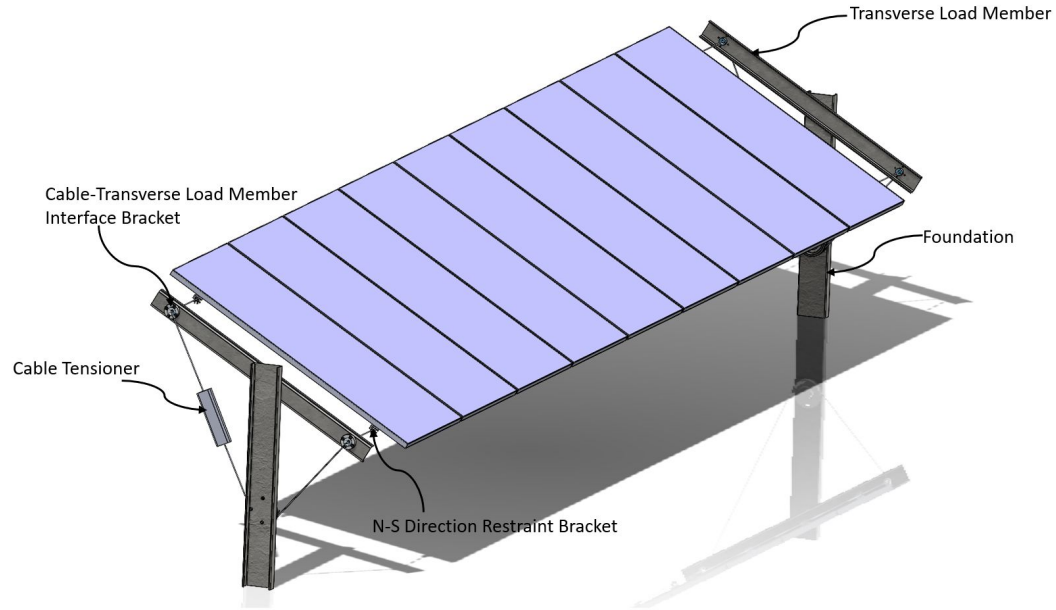


Market Analysis Complete

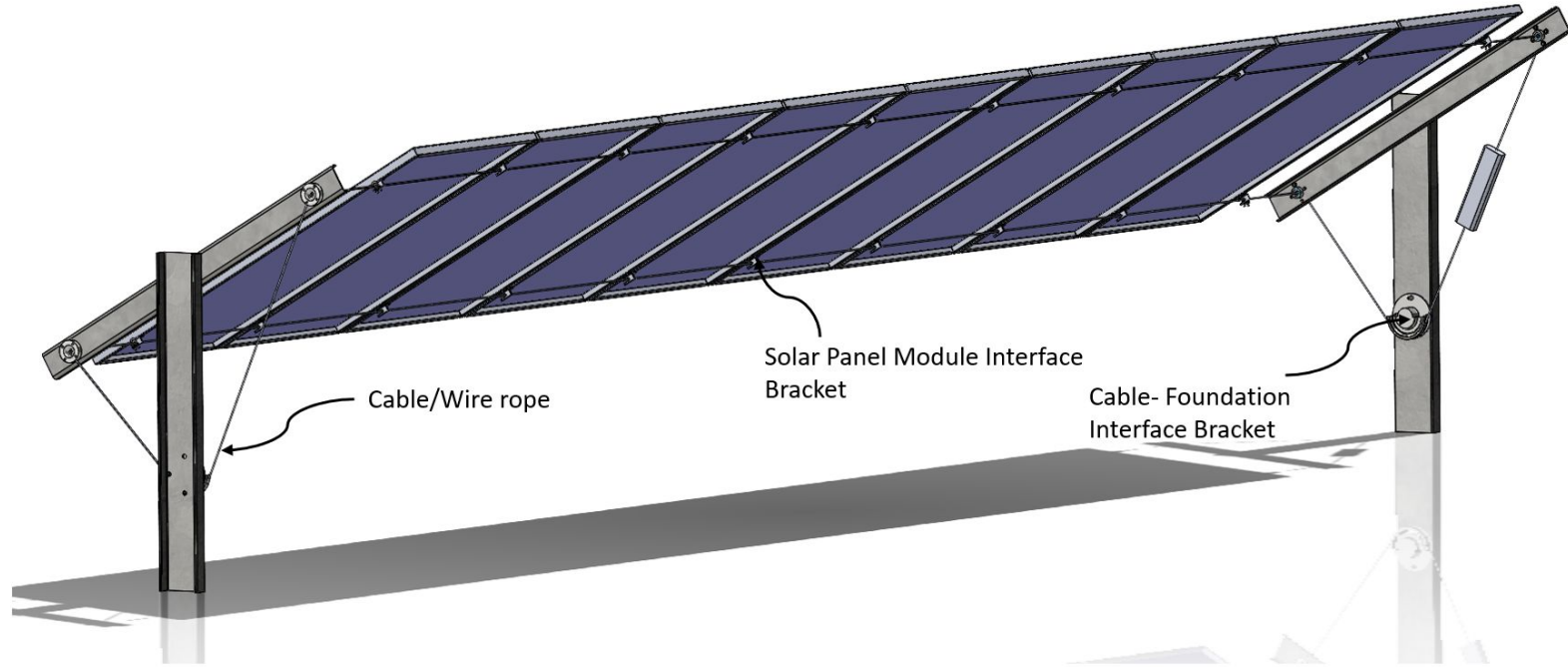
Solar PV Mounting Systems Market Size, By Technology, 2021-2032 (USD Billion)



Conceptual Design



Conceptual Design Cont.



Team Members



Nikhil Kumar
Team Lead



Smriti Singh
Electrical Lead



Vaishali Juneja
Analytics Lead



Spriha Rai
Strategy Lead



Nilesh Kumar
Process Lead



Dayal Ramachandran
Software Lead



Ankur Wadhwa
Operation Lead



Ashish Tripathi
Sales Lead

Team Experience and Education

Work Experience



TESLA



Deloitte.

ARRAY
TECHNOLOGIES

gusto

 APPLIED
MATERIALS®

Education



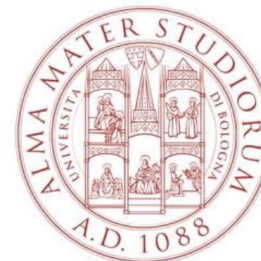
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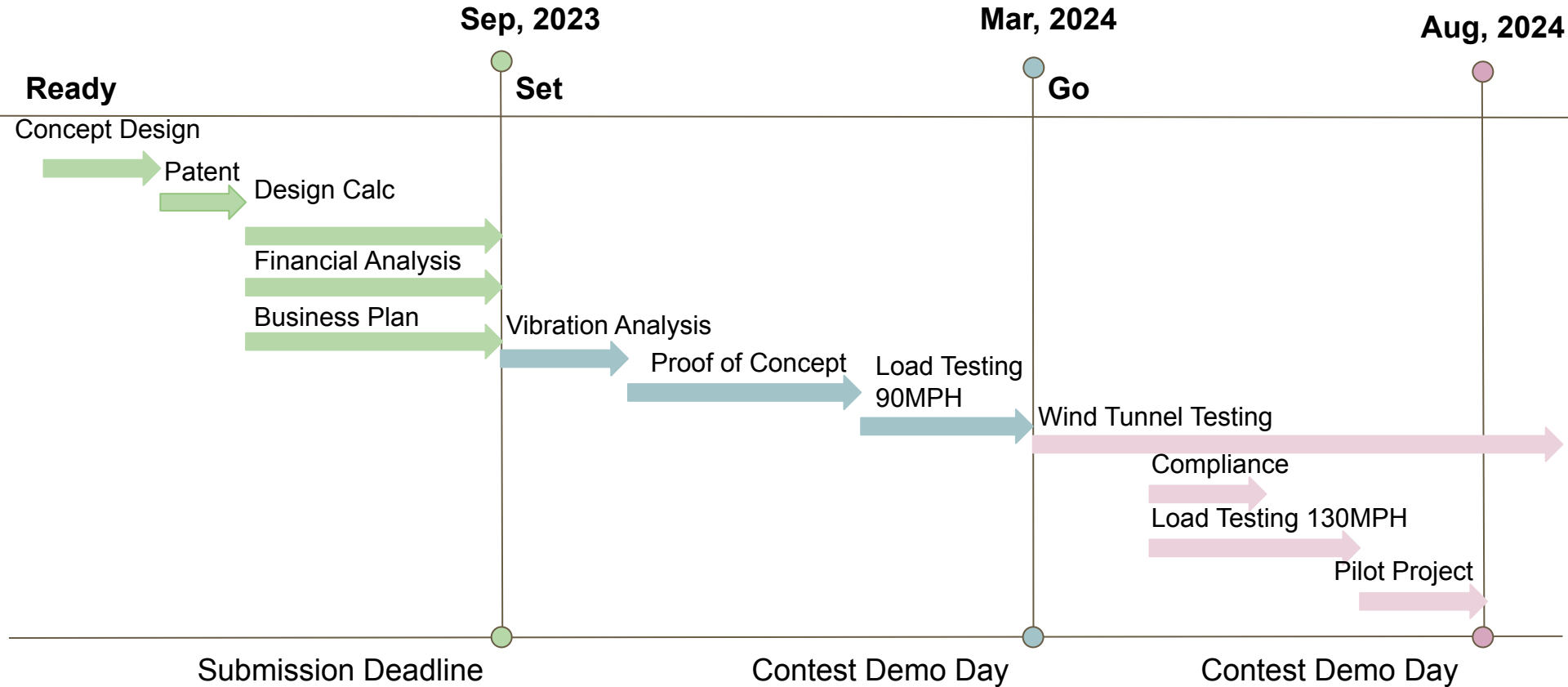
THE UNIVERSITY
OF ARIZONA



Team- Skill Matrix

Name	Professional Experience	Proof of Excellence	Expertise
Nikhil K	Current: Tesla Motors (Total 11+ Years)	6 Patents in Utility Solar Industry	Renewable Energy Products, PV, Battery Storage
Smriti S	Current: Antora Energy (Total 7+ Years)	Designed and deployed 30+ substations and 5+ PV plants.	Electrical Engineering, Substation Design, Grid Integration, PV
Spriha R	Current: Deloitte Consulting (Total 10+ Years)	Management consultancy provided to several Fortune 500 companies in field of clean energy and others	Business Consulting, Chemical Engineering
Nilesh K	Current: Apple Inc (Total 11+ Years)	Market launch of Apple Watch, iPhone 13, iPhone 14, and iPhone 15	Manufacturing, Process Optimization, Quality & System Engineering
Ankur W	Current: Apple Inc (Total 8+ Years)	Market launch of iPhone, Mac-book, iPad and Apple pencil	Industrial Engineering, Process Optimization
Dayal R	Current: Applied Materials (Total 14+ Years)	Developed and implemented several tool control software for Applied Materials globally	Embedded Systems, Software Development
Vaishali J	Current: Cadence Design Systems (Total 4+ Years)	Successful completion of several automation and control projects	Automation, Big Data & IoT
Ashish T	Current: Gusto (Total 15+ Years)	Closed several sales deals in India and the United States	Sales, Product Management

Plan to Achieve the Goal



Thank you