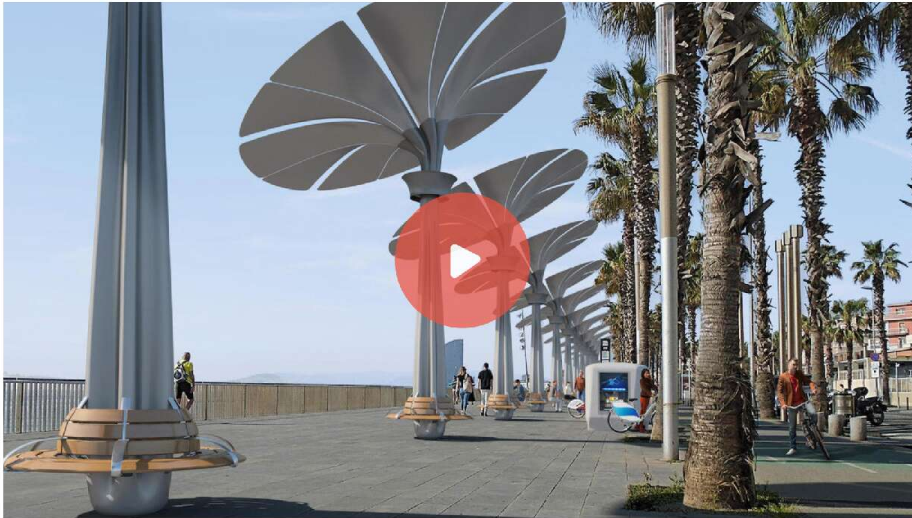


Game-changer in Green Technology: Developing transformative solar energy devices



Highlights

- 1 Compelling business proposition for customers with estimated payback of 4-6 years at an ROI of 240% (not guaranteed)
- 2 JV with Liberty Access Technologies for electric vehicle green charging ensures strong revenue.
- 3 Team with combined professional experience of 125 years.
- 4 Pioneering, transformative green energy solution that's projected to be 30%-40% more efficient
- 5 Invest in a cleaner future for our children and the children of tomorrow.
- 4 Pioneering, transformative green energy solution that's projected to be 30%-40% more efficient
- 5 Invest in a cleaner future for our children and the children of tomorrow.
- 6 Each Palm-e device projected to reduce carbon footprint by over 21,000 pounds of CO2 per year.

Our Team



Rajiv Narain

30 years designing and executing significant and complex building projects within timeframe and budget. Long experience in sustainable design.

We are re-imagining on-site clean energy. Current solutions must either be hidden or remain ugly eyesores within the built habitat. They are also inefficient. Our solution Palm-e is inspirational, increases the on-site renewable energy capabilities of campuses, neighborhoods, towns and cities by harnessing areas that have never been used before.



Francois Mahu

Award winning product designer. Proven track record of product development involving teams and fabricators - from concept to execution.



Chris Outwater

CEO Liberty Access Technologies. Serial entrepreneur. Inventor and technologist.



Jay Kesan

Professor at UIUC. Extensive startup experience. 20+ patents. Accomplished patent attorney.



Samir Varma

Managing Partner VS Asset Management LLC. Quantitative investment and finance expert. Experienced inventor, investor and entrepreneur.



Tom Blinten

CEO Panamax Capital. 20 years advising & funding SMEs. Focus on emerging tech, ESG/impact investing, renewable resources.



Brendan Boyd

Digital Marketing specialist with experience in popular culture and the growth of social media.

The Story of Palm Energy

The Problem

Global warming is heating up the earth rapidly, unleashing a devastating cycle of climate change that may soon become irreversible. Rising sea levels, melting ice caps, hurricanes, forest fires and rising pollution levels threaten humanity in ways we haven't experienced before.

The Problem

Global Warming is real! It is driving our planet towards a tipping point - a point of no return!



**PRINCETON
UNIVERSITY**

**Net-Zero America Study shows Pathway to Carbon
neutral by 2050**

[Download the Net-Zero America report](#)

2

Solar is Part of the Solution...

Palm-e - A Networked Solar Farm powering Campuses, Communities & Electric Vehicles

An "innovative on-site solar energy solution"



Aesthetically Pleasing Design



High Efficiency



- ✓ High Power Output
- ✓ Extremely Light
- ✓ Intelligent
- ✓ Palm-e's Strength in Numbers

Utility and Design Patents Pending

Solar energy is a part of the solution. However, current solar energy systems have limited application and are inefficient as well as unattractive.

Current Campus and Home Solar Solutions

Current solutions are **insufficient, inefficient and unsustainable**



- ✗ Unattractive
- ✗ Inefficient
- ✗ Heavy
- ✗ Low Power Output
- ✗ Very Expensive per kW
- ✗ Standalone

As a result, solar panels are hidden away on rooftops, or are mounted as a panel on a post in residential backyards and private gardens. More recently, ground mounted versions called solar trees that claim to be 'beautiful', are beginning to appear in public spaces.

There are no existing solutions capable or deserving of coexisting with us within our built habitat. If there is one unifying feature about all clean energy products today it is that they are inefficient and eyesores.

It is no wonder that clean energy adoption by us, the people, has been sluggish and relies mainly on cost benefit scenarios presented by savvy salesmen rather than people's inherent desire to embrace it willingly and enthusiastically.

We decided to try and change this because we believe there exists an unrealized potential of altering the relationship that people shared with clean energy devices in their neighborhoods, towns and cities. We also believe, to bridge the dangerous disconnect between the 'reality of global warming' and the myth that 'everything is ok at home', there is an urgent need for us to embrace clean energy and make it an integral part of our lives.

Why - Questioning first principles

What if we could generate clean energy without worrying if we have enough roof space for solar panels, if our roof was facing the right direction, if our roof was shaded most day or if we had a roof at all?

What if we could generate clean energy from inspiring devices that didn't need to be hidden away but live amidst us in our streets, squares and parks?

What if we could generate significantly more energy and at a lower cost from these devices?

What else would this enable us to do that isn't currently possible currently?

What - Our initial response

The solution would be a highly efficient urban artifact. It would be an inspiring and powerful device, which could be placed anywhere within our campuses, towns and cities, and which would be enthusiastically embraced by people. Most importantly, it would not occupy expensive ground space but hover above. It would remove the need to occupy vast tracts of valuable land to create community solar farms within our neighborhoods, and it would exist amidst us within our streets and squares.

It would redefine the 'aesthetics of clean energy', increasing its acceptance, and alter our perception of how we would live with it in the years ahead.

Understanding the opportunity

The Opportunity

Vast tracts within our campuses and communities lie unused ...

... which can be harnessed by "innovative on-site solar energy solutions"



5

Delving deeper, we realize that there exist vast tracts of previously unused spaces, right where we live, work and play, which could form captive zones for the generation of significant amount of clean energy.

What if many of these devices could be linked together to form micro-grids of clean power. What if these devices were plug and play, and could talk to each other and be controlled and managed in real-time by a remote digital platform? And what if the digital platform could also provide realtime information about the system - its performance and projections?

It would be able to power communities and campuses and a whole range of user facilities such as Electric Vehicle charging, personal device charging, emergency facilities, and news and advertisement display options etc. - making it an integral part of our lives.

It is our passion to make this possible.

How - Our Solution

Palm-e: Powerful Astute Linked Modular and Efficient

Palm-e - Our Networked Solar Farm Solution



Palm-e - Our Networked Solar Farm Solution

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Palm-e - Our Networked Solar Farm Solution

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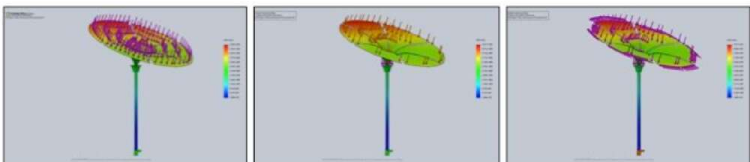
A day in the life of Palm-e



Building and Testing the Virtual Prototype

Prototype
Virtual Simulated Prototype – Structural Engineering

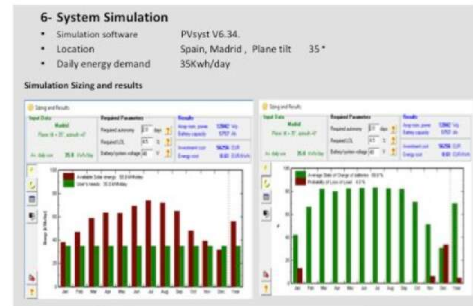
Structural Simulation Results for the Final Design			
Cases	Maximum Stress	Maximum Displacement	Minimum Factor of Safety
Case #1	9.75MPa	5.05mm	23
Case #2	8.28MPa	5.03mm	27
Case #3	168.4MPa	4.45cm	1.3



The structure exhibited a **minimum safety factor of over 5** under several different loading conditions, which is **well above the general safety factor of between 1.5 - 2** emphasizing the inherent degree of safety within the design.

Prototype

Virtual Simulated Prototype – Solar Engineering



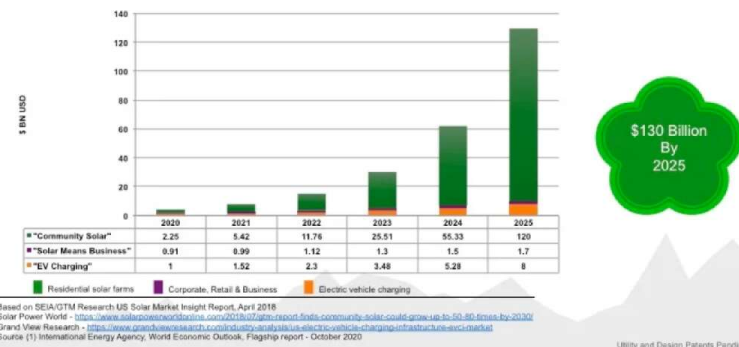
Palm-e has an average daily energy generation of 55 kWh/day, and total yearly energy generation of 20.2 MWh.

The resultant PV energy is 38-48 kWh/day of electric energy in the winter and 59-72 kWh/day in the summer season.

The PV energy should be sufficient to charge EV's that travel between 283 and 432 Km per day in the winter and summer, respectively.

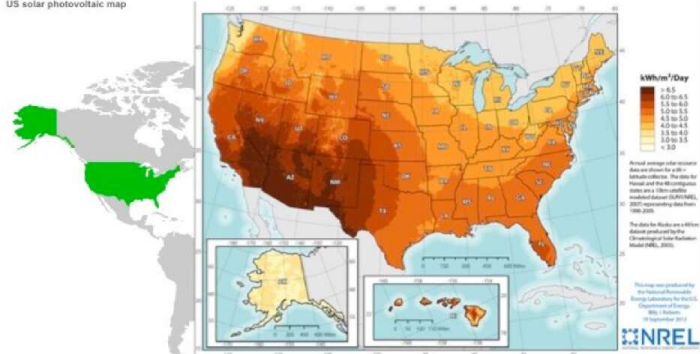
The Opportunity

Market Size



Market Canvas

US solar photovoltaic map



The Palm-e System

The Palm-e is a powerful, ground-mounted, sun-tracking solar photovoltaic device rated at 10kW - 14 kW. It is estimated to be 30% to 40% more efficient and 70% lighter* than fixed rooftop solar panels. Its modular design allows for rapid, flexible and versatile deployment at scale as an autonomous (full battery backup) system, a hybrid (partial battery and partial grid connect) system or a grid connect (full grid connect) system. Each system is capable of supporting a powerful micro-grid and a wide range of user services.

* These are best estimates and are not guaranteed.

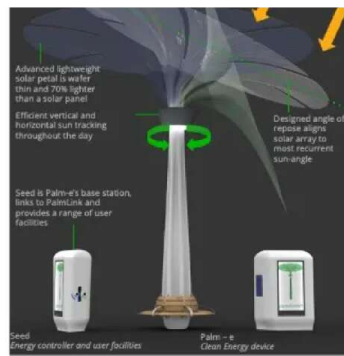
Palm-e Technology

A Revolutionary Clean Energy System



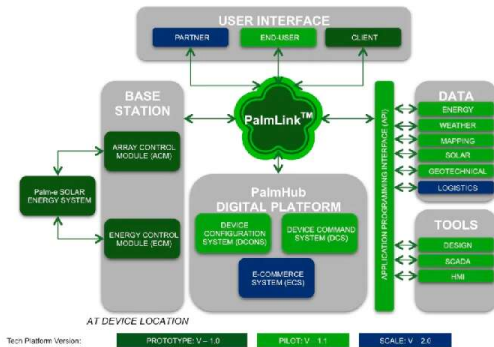
- 01 **Inspirational Design**
"Fluid minimalist" design and engineering simplicity
- 02 **Full Stack Technology**
 - High Power Output: 10kW
 - Highly efficient*: +40%
 - Lightweight*: -70%
 - Dust resistant
- 03 **Hurricane resistant Intelligent Platform**
WiFi and 5G ready **PalmLink** Tech Platform configures, operates and monitors solar plant remotely.

* As compared to a conventional solar panel. These are best estimates and are not guaranteed.



Palm-e Tech Platform

Increasing **Ease, Efficiency and Economy** for Clients, Customers & Partners

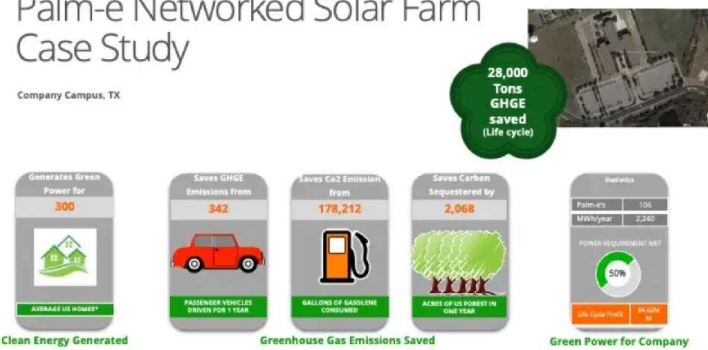


- 01 **Astute**
Operates, manages and monitors power plants remotely.
The Power of 'n'
- 02 **PalmLink and PalmHub** enable powerful, linked micro-grids connecting multiple devices.
- 03 **Agile**
Modular design facilitates rapid scale deployment, adaptability and future proofing.
- 04 **Versatile**
Autonomous (full battery back-up), Hybrid (battery + grid connect) or Grid-tie (full grid integrated) environments.

11 Utility and Design Patents Pending

Palm-e Networked Solar Farm Case Study

Company Campus, TX



* Average home energy consumption (single family attached / apartment 2-4 units), CA @ approx 7000 kWh/year
<https://www.energysources.com/resources/average-energy-consumption-by-home-type>
Disclaimer: These estimates are based on research and not indicative of real world values.

The Palm-e System Video



Palm-e Metrics

Powering Campuses, Communities and Electric Vehicles - What the Palm-e System will facilitate in everyday terms

What can be **powered** by a Palm-e device **each day of a year**?

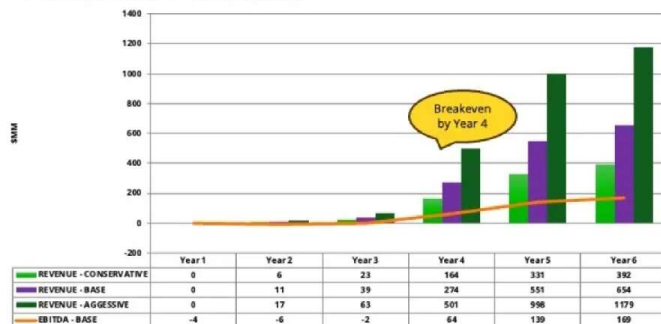


How much **greenhouse gas emissions** does Palm-e offset **each year** in everyday terms?



Palm Energy Systems is currently gathering early-stage investments to generate detailed engineering designs, build a full scale operational prototype, secure test certification and regulatory compliance and optimize the design for production. We will also finalize production partners to bring the Palm-e to market.

We are looking for investors who share our vision of highly efficient, inspiring and transformational clean energy systems within our built habitat that would have a meaningful impact on our lives.

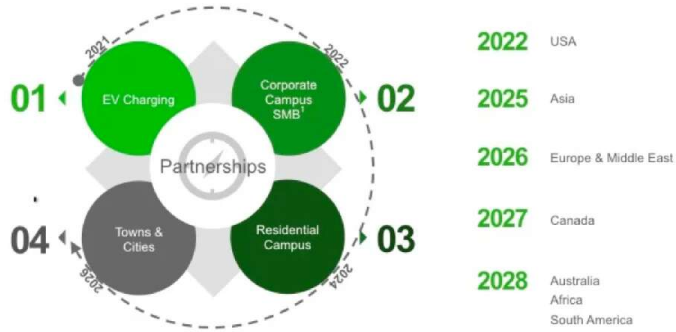


Revenue from user services such as EV charging, newsfeed, advertisements, branding services and SaaS etc. not included in financials.

There can be no assurance that the projected results will be realized. The projected and actual results will vary.

Please note that these numbers may change once we start production. These are future projections and cannot be guaranteed.

Go To Market Model



- 2022 USA
- 2025 Asia
- 2026 Europe & Middle East
- 2027 Canada
- 2028 Australia
Africa
South America

Traction

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Green EV Charging
Most EV Charging uses Brown Power. We are in advanced discussions with Liberty Plugs, CA. \$50 MM+ contract potential



Residential Campus
Dialog with HOMZ, Dallas, TX
~\$100 MM contract potential



City
Dialog with Underline Park, Miami, FL

There can be no assurance that the projected results will be realized, the projected and actual results will vary.

Development Status

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Accomplished concept, design, proof of concept - engineering and energy performance.



Built and tested a virtual prototype.



Prepared detailed business plan and financial projections.



We lack the means for product development, detailed engineering design, fabrication of a physical prototype, testing and certification and onwards to design optimization and product manufacture.



We have selected a reputed product engineering practice to partner with to achieve these targets and bring the Palm-e to market.



Product Development Partner

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"Lúcid has built a detailed project plan balancing our design intelligence methodologies with the desired development phases of Palm Energy. We integrate our teams with our external advanced engineering partners from Formula 1 as an example. Working with Palm Energy satisfies our mission statement for impactful and sustainable design for our planet. We are experienced at design engineering projects in the energy sector and delivering complex high technology products all the way from concept to production".



Prototype to product launch:

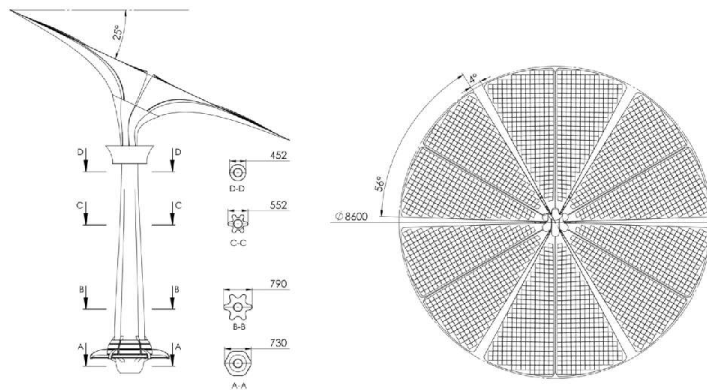
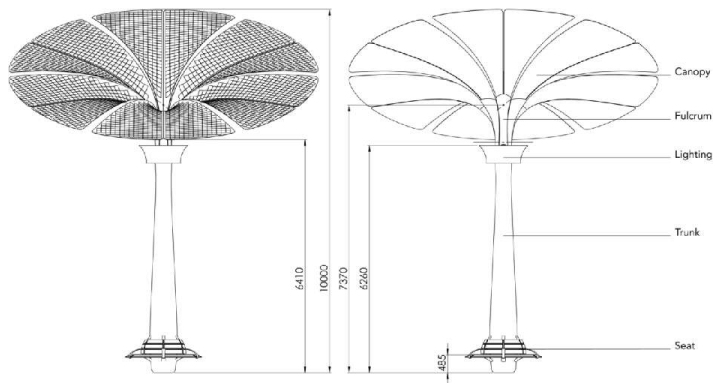
- Design optimization
- Detailed engineering design
- Prototype development
- Testing and certification
- Component OEM sourcing
- Production engineering
- Production strategy and planning

lúcid

An award-winning product design agency based in Barcelona, Lúcid Design Agency is a forward-thinking, user-centered design agency, which embraces innovation as the engine for business improvement.

www.lucid.pro/en

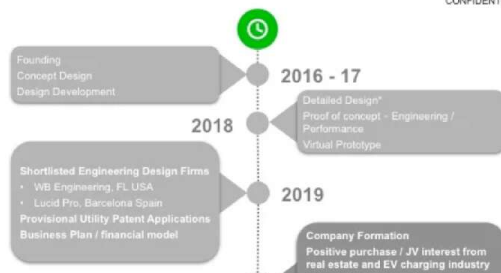
Technical Drawings



The story of Palm Energy

Our journey started in 2016 from a passion to fight climate change and global warming - as conscious designers and global citizens - and our frustration with the limited clean energy solutions available for our neighborhoods, towns and cities. There is a universal obsession with quantitative solutions (how much, how big and how cheap) and no attention is given to qualitative solutions (how efficient, how productive and how experientially enriching). Clean energy solutions rely on inefficient, impersonal and insensitive industrial design solutions focussed on the conventional (ugly and inefficient) rectangular solar panel.

Roadmap





Forward-looking projections cannot be guaranteed.

Invest in Palm Energy

We are often told that we have an ambitious vision - perhaps too ambitious. Our answer is simple: This is the future and it is waiting to happen - the only question is how soon can we make it a reality? If dreams are built on passion, then we are passionate dreamers, designers and engineers who are on a mission to redefine how we live with clean energy in the years ahead.

Join us to be the first to market as pioneers of this transformative and urgently required movement.

Join us to set benchmarks that we are working hard to redefine.

Join us to be a part of the change.

Join us by investing in Palm Energy.

Note: All images and videos featuring the Palm-e device in this presentation are simulated.

Downloads

[A day in the life of Palm-e 040920.mp4](#)