



## **Business Presentation**

March 11, 2023

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# Situation Overview

Independently validated, working 250 kW pilot, entering commercialization phase

**Discovered.** Brilliant Light Power, Inc. (“BLP”) believes that it has created a disruptive, non-polluting new primary energy source that is independent of fuels and grid infrastructure, from the conversion of hydrogen into a previously undiscovered, more stable form called “Hydrino®” that releases 200 times more energy than burning hydrogen.

**Developed & validated working prototype.** BLP has discovered and proven the existence of Hydrino®; developed a device, a SunCell®, to convert the radiant power release to electricity using concentrator PV to power essentially all thermal, cooling, electrical, and motive applications. Extensive tests/proofs have been validated at commercial scale. The Company began building a prototype of current SunCells® in 2018, completed development of and validation of a 250kW thermal boiler in 2020, and completed development of a commercial prototype optical power source to produce electricity by concentrator photovoltaic conversion in 2023.

**Capital to commercialization.** Raising equity funding to further develop and engineer the SunCell® product family to harness the power of the Hydrino® into various energy markets from the current commercial-scale pilot units, to field trial and production units enabling the Company to go public in 2024.

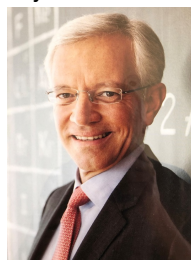
# Brilliant Light Power Leadership Team



**Randy Mills**, Founder, principal shareholder and Chairman of the Board, CEO and President since 1991.

Awarded a BA in Chemistry, summa cum laude and Phi Beta Kappa, from Franklin & Marshall College in 1982, and a Doctor of Medicine Degree from Harvard Medical School in 1986. Following a year of graduate work in electrical engineering at Massachusetts Institute of Technology, began research in the field of energy technology.

Authored nine books, participated in over 50 presentations at professional meetings, and authored and co-authored over 100 papers regarding the field of energy technology that have been published in peer-reviewed journals.



**Luis Rebollar**, VP of Business Development joined the Company in 2021.

34 years experience in senior managing roles at DuPont and Chemours, including President of spin-off The Chemours Company Mexico; VP of Titanium Technologies, President of DuPont, Mexico; and VP of Chemours' Chemical Solutions.

Universidad Iberoamericana (UIA) in Mexico, BS Chemical Engineering; Instituto Tecnológico Autónomo de México (ITAM), MBA.



**Emilio Icaza**, was appointed to the Board of Directors in 2018.

Co-founder and Chairman of the Board of Aspel, the market leader in small business accounting software in Mexico and in Colombia. Served as Co-Executive Director, in charge of Corporate Finance, Research and IR at GBM, one of the top brokerage houses in Mexico. Main shareholder of Enextra Energía, a licensee of Brilliant Light Power, Inc. contracted to serve energy customers in Mexico.

Instituto Tecnológico Autónomo de México (ITAM) in Mexico City, BS Business Administration



**Prachi Athnikar Patil**, Business Development Manager joined the Company in 2021.

Mrs. Prachi Athnikar Patil has an MBA in Marketing from Pune University.

She has been a Business Development Manager with 9+ years of experience in solution selling and new business development. She is known for her ability to develop relationships with senior decision-makers (incl. CEOs, CFOs, CMOs, or VPs) of potential clients.



**David Bennett**, was appointed to the Board of Directors in 2018.

Consultant for strategic and operational areas of renewable energy and electric vehicles. CEO of Proterra, 2011 to 2013, launching electric bus development and commercialization. President of Eaton Vehicles Group in Asia Pacific, scaled new business, products, and operations in India and China.

Duke University BSE Mechanical Engineering; Drexel University MBA Operational Management.

# Brilliant Light Power – At a Glance

Zero-pollution, low cost, primary energy source applicable to essentially all power applications

- **How it works.** The theoretically predicted energy breakthrough is based on reacting atomic hydrogen with a catalyst to cause the atom's electron to transition to a lower-energy orbital forming Hydrino®, a more stable chemical form of hydrogen. Tremendous energy is released in this reaction that is replicated and captured in a **SunCell®**.
- **Predicted and discovered the Hydrino®.** We discovered Hydrino® whose existence and power have been validated by many independent sources. We have Hydrino® “In a bottle” and spectroscopic results that identify Hydrino® in a dispositive manner by characteristic signatures that do not match any other known species.
- **Invented the SunCell®.** The SunCell® comprises a plasma cell that injects hydrogen and catalyst, and two electromagnetic pumps serve as electrodes by injecting intersecting molten tin streams from corresponding reservoirs wherein the connected streams carry a low voltage, high current to form a Hydrino®-reaction plasma with an energy release of **200 times that of burning the hydrogen obtained from water**. Independently validated results.
- **SunCell® developed and proven viable at commercial scale.** Our proprietary SunCell® has been validated by experts at an excess power scale of 300 kW producing blackbody radiation and 270 kW continuously producing steam. We have run internal thermal SunCell® pilot trials at a scale of 100-250 kW continuous power production and an extraordinary power density of up to 5MW/liter.
- **Next stage** commercial partnerships to commercial 250 kW autonomous, modular electrical power sources.



Reinventing  
thermal and  
electric power:  
*safe, accessible,  
affordable,  
clean*

# Brilliant Light Power – At a Glance

Working and independently validated boiler producing over 200 kW 100% clean, net Hydrino power

- **Breakthrough in 2020.** We have developed a demonstration 250 kW SunCell® steam boiler to produce hot water and steam - run continuously daily for over 100 hours in aggregate to prove the commercial competitiveness of the Hydrino power source.
- **Independently validated** results by [3] leading professors/labs.

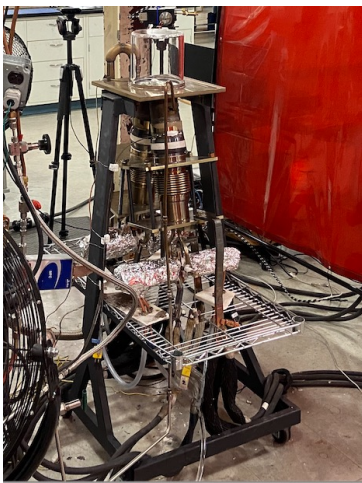
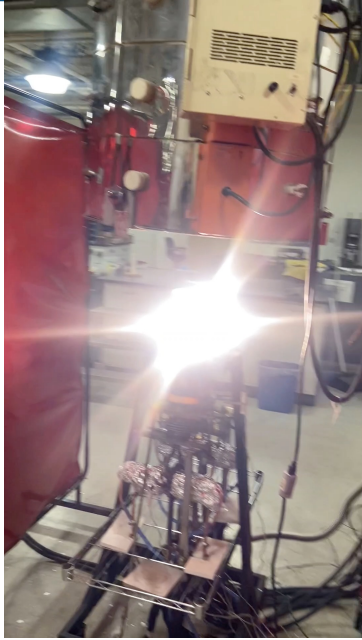


250 kW Commercial-Scale Boiler



# Brilliant Light Power – At a Glance

Commercial prototype optical power source to directly produce clean electricity for essentially all applications



250 kW Optical Power Source

- **Breakthrough in 2023.** We have developed a commercial prototype SunCell® optical power source to produce electricity by concentrator photovoltaic conversion.
- **Solar Power Meter Measurements.** Power and gain are sufficient for a commercially competitive electric power source.
- **Optical power to be converted to electricity using commercial concentrator PV cells.** We are providing spectra and optical power data input to two concentrator PV OEMs.
- **Large addressable markets:** capable of serving the **\$16.3T/y** electrical stationary power, electrical motive power, thermal markets corresponding to essentially the world's power markets.
- **Two hundred times cheaper:** **\$15/kW** capital costs and **\$0.001/kWh** on site electrical power, no transmission, distribution, or demand charges.
- **Total Electrification:** Essentially every imaginable power consuming device in the world can be electrified with proven, cost competitive, reliable, safe, UL approved, warranted systems, mass-produced and supported by the world's OEMs. The SunCell® can power these devices completely autonomously of fuels and grid infrastructure, operating in essentially any environment at greater power density and power to weight ratio than any prior known power source.
- **Will host demonstrations** in our facilities for major corporations (potential clients/partners) and investors.

# Key Investment Highlights

1

**Massive addressable markets** applications to displace virtually all energy sources

2

**Working pilot creating net positive energy** at commercial scale

3

**Independently validated** operation, science, theory, power output, & engineering

4

**Zero carbon emissions** or other pollutants (100% clean energy)

5

**Superior energy and power densities and economics** to other energy sources (+40x- 220x)

6

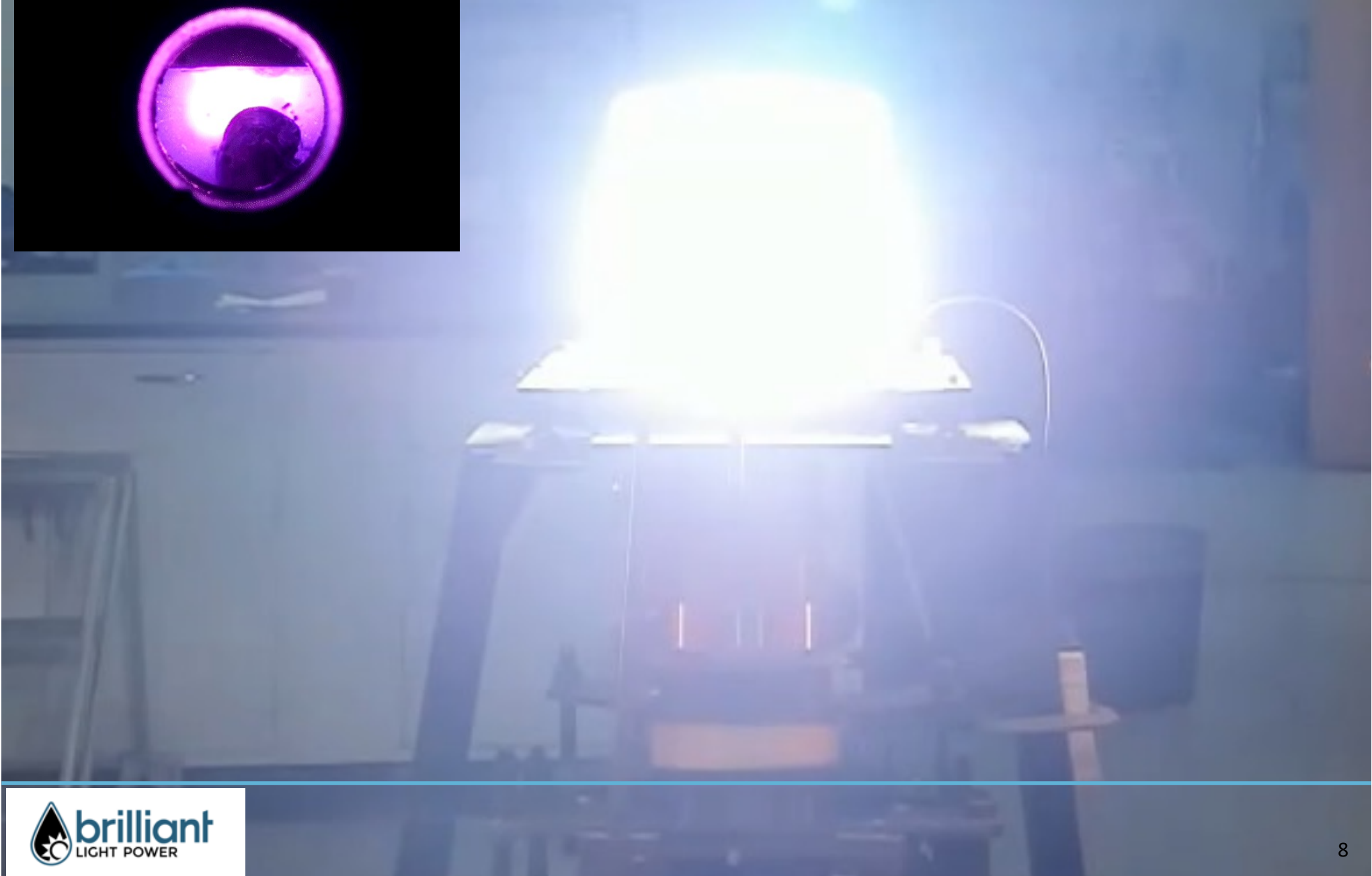
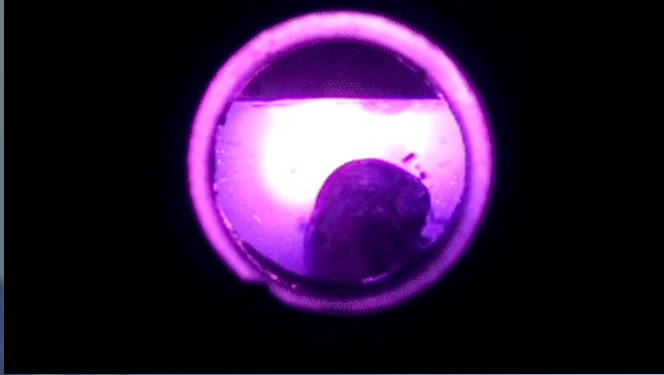
**Global patent portfolio** protects leading technology position





# Our Invention: New Fire

The most revolutionary invention in modern human history



# Building on 30 Years & \$120 Million Invested

BLP now at an inflection point with a pilot SunCell creating over 200 kW positive power

**\$120 million invested**

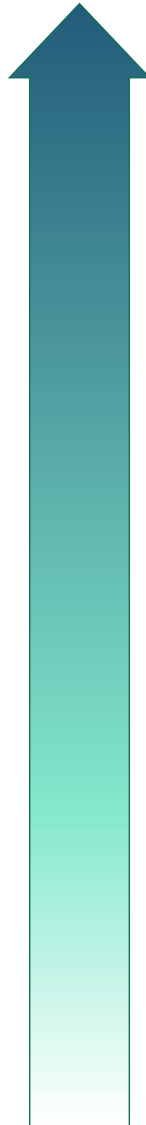
**100+ published peer reviewed articles**

**80+ patents granted**

**100+ patents pending**

**Theory complete and reviewed, analytical solves quarks to cosmos**

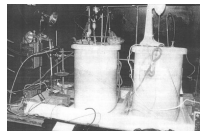
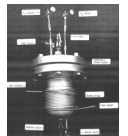
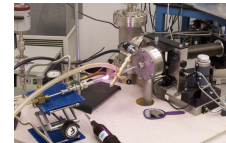
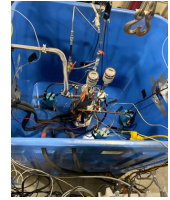
**SunCell® at commercial scale and design**



**2021**

- Patents issued worldwide
- 22+ hydrino identification methods with university validation
- 100's of evolutionary steps; 20 MW optical pulse power, SunCell®, 340 kW heat air, 275 kW steam University validation
- 1000's of molten salt electrochemical cells; University and industry validation 10 mW
- 100's of button electrochemical cells
- 6000 solid fuels; University and industry validation 100 mW-1000 W
- 1000's of plasma cells; University validation 10 W power and energetic Hydrino
- Gyrotron plasma to microwave power to DC power using a rectenna signatures
- 100's of filament plasma cells; University validation by national lab director
- Hydride battery; theory, analytical, button cells
- 3000 °C vacuum furnace gaseous catalyst reactor
- 100's of spillover catalyst cells; University validation 1 W scale
- 100's of permeation cells; industry validation 25 W
- 100's of electrolysis cells; industry and National Lab validation 100 mW -50W

**1991**



# Brilliant Light Power's SunCell®: Energy Game Changer

This is the breakthrough the world needs the most in this moment

	SunCell®	Solar	Wind	Coal	Natural Gas	Nuclear	Solid State Batteries
Zero Emissions	✓✓	✓	✓	Hydrocarbon	Hydrocarbon	—	✓
Safe to Operate	✓✓	✓	✓	Dangerous to mine	—	Operational risks	✓
Low Cost	✓✓	✓	✓	✓	✓	X	X
No Intermittency	✓✓	X	X	✓	✓	✓	✓
Conventional Input Materials	✓✓	Requires rare earth metals	Requires rare earth metals	—	—	Requires uranium	Requires rare earth metals
No Harmful Waste	✓✓	Hazardous materials	Blades not recyclable	Hazardous waste	Upstream flaring	Hazardous waste	Hazardous materials
Easy to Transport	✓✓	✓	Difficult to transport	—	—	Safety & security challenges	✓
Easy to Site	✓✓	Geographically limited	Geographically limited	—	—	X	✓
Completely Off-Grid w/o Related Costs	✓✓	—	X	X	X	X	✓

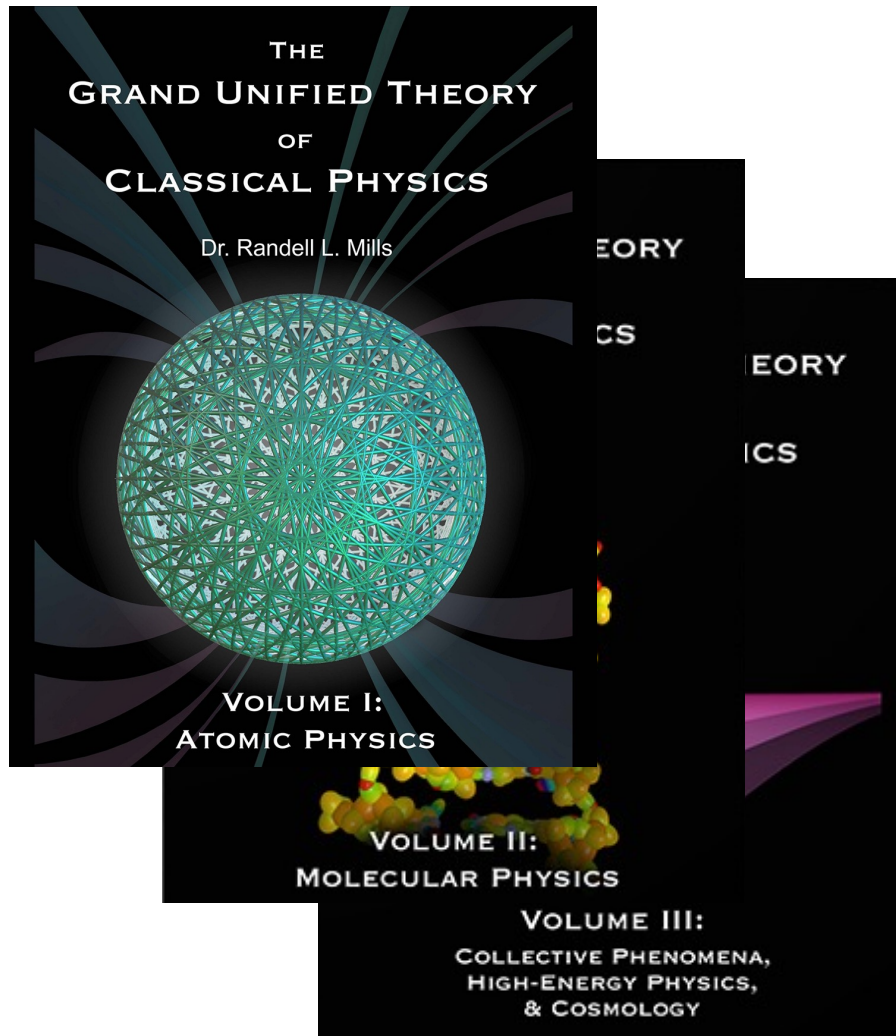
A dramatic, blue-tinted image featuring a powerful lightning bolt striking a crown that is partially submerged in water. The crown is the focal point where the lightning strikes, creating a large splash. The background is a clear blue sky, and the water surface is dark blue with white foam from the splash. The overall mood is one of power and elegance.

**Hydrino®**



# Hydrino®: Applies Classical Physical Laws at the Atomic Scale

Grand Unified Theory predicted Hydrino®, refutes quantum theory and explains physical phenomena



Niels Bohr (left) with Albert Einstein in the late 1920s, when quantum mechanics was in its infancy.

PHYSICS

## Quantum-theory wars

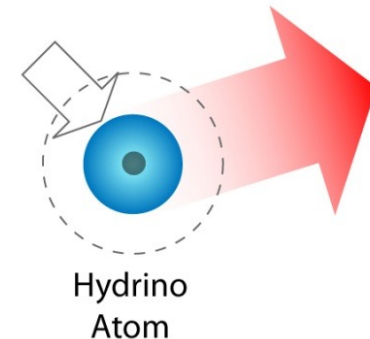
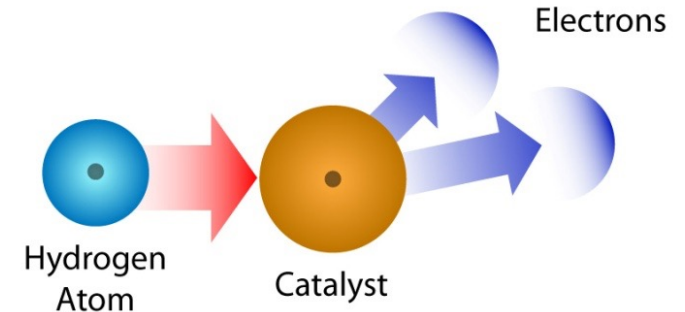
Ramin Skibba explores a history of unresolved questions beyond the Copenhagen interpretation.

582 | NATURE | VOL 555 | 29 MARCH 2018

# What is Hydrino®?

## Catalytic Reaction of Atomic Hydrogen

- **Step 1.** Atomic hydrogen reacts with an energy acceptor called a catalyst wherein energy is transferred from atomic hydrogen to the catalyst which forms an ion due to accepting the energy
- **Step 2.** Then, the negative electron drops to a lower shell closer to the positive proton to form a smaller hydrogen atom called a “hydrino” releasing energy that ultimately is in the form of heat
- **Step 3.** The catalyst ion regains its lost electrons to reform the catalyst for another cycle with the release of the initial energy accepted from hydrogen. With the imposition of an arc current condition, the limiting space charge of the ionized electrons is eliminated and the rate becomes massively high.



## Novel Compounds



### \$TBD Addressable Market

- Analytical identification completed for Hydrino® gas and a Hydrino® compound
- Hydrino® exhibits prior unknown optical, magnetic and other properties
- Samples available today and are being validated
- *Exploring applications with specialty firms*



# Hydrino®: Existence Confirmed By 23 Methods

Proof through aggregation of results, tests and select validations

<u>Testing Method</u>	<u>Data Acquired on State-of-the-Art Instrumentation at These Institutions</u>
1) Electron paramagnetic resonance (EPR) spectroscopy	Princeton University, Delft University of Technology, Bruker Scientific LLC, Billerica, MA
2) Gas chromatography	Brilliant Light Power, Inc. on three instruments
3) Raman spectroscopy	Duke University, Princeton University, ThermoFisher Scientific, University of Texas El Paso
4) 340 kW level SunCell® power development	Brilliant Light Power, Inc.
5) 210 kW SunCell® continuous steam production	Brilliant Light Power, Inc.
6) High resolution visible spectroscopy H-(1/2)	Brilliant Light Power, Inc.
7) Infrared spectroscopy	Princeton University
8) Electron beam emission spectroscopy	Rutgers University, Brilliant Light Power, Inc., University of Illinois
9) X-ray photoelectron spectroscopy	Lehigh University, Brilliant Light Power, Inc., Duke University, N. Carolina State University
10) Extreme ultraviolet (EUV) spectroscopy	Brilliant Light Power, Inc.
11) ToF SIMs	Charles Evans & Associates, MRL Lab, Brilliant Light Power, Inc., Case Western University
12) Electrospray ionization time of flight (ESI-ToF)	Rowan University, Brilliant Light Power, Inc., Ricerca
13) Nuclear magnetic resonance (NMR) spectroscopy	Spectra Data Services, Shell, University of Delaware
14) High performance liquid chromatography (HPLC)	Ricerca, Inc., Rowan University
15) Vibrating sample magnetometry	University of Oregon
16) High resolution visible spectroscopy (H Doppler and Stark line broadening)	Brilliant Light Power, Inc., Technical University of Eindhoven, many other universities globally
17) H excited state line inversion	Brilliant Light Power, Inc.
18) Shock wave development much greater than that of TNT	Brilliant Light Power, Inc.
19) SunCell® fully ionized energetic plasma and electromagnetic pulse	Brilliant Light Power, Inc.
20) Solid fuels calorimetry	Brilliant Light Power, Inc., University of Illinois, Auburn University, University of Notre Dame, Setaram, Perkin Elmer
21) Electrochemical power	Brilliant Light Power, Inc., Enser
22) Chemically produced hydrogen plasma	Brilliant Light Power, Inc., Ruhr-University Bochum
23) Plasma afterglow	Brilliant Light Power, Inc., Ruhr-University Bochum

# SunCell®: Validation by Berkeley PhD

## Net positive power balance in 210 kW test with continuous steam production

We have developed a 250 kW, direct SunCell® to steam boiler to produce hot water and steam. For heating applications, cooling applications & furnace & oven applications.

**Validation.** Dr. Mark Nansteel, Ph.D. University of California, Berkeley and heat transfer expert validated 210 kW of excess power produced by a hydrino plasma reaction maintained in a SunCell® using mass balance in the production of steam. The hydrino reaction was shown to be dependent on operating temperature and activation of the gas reactants by a glow discharge plasma.

([https://brilliantlightpower.com/pdf/Report\\_on\\_Water\\_Bath\\_Calorimetry\\_12.04.20.pdf](https://brilliantlightpower.com/pdf/Report_on_Water_Bath_Calorimetry_12.04.20.pdf))

Steam production was maintained over a 100-hour duration in an internal pilot demonstrating the utility of SunCell® towards the goal of a commercial heater of over 100 kilowatts.

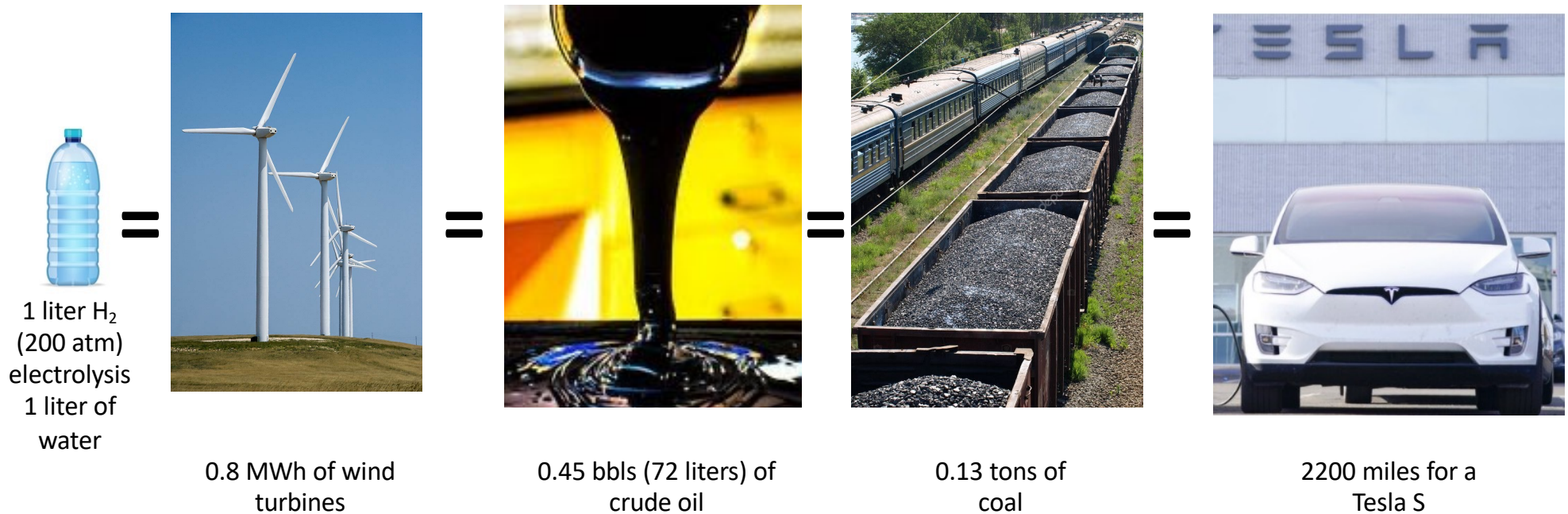
Discharge	Gallium Temperature (°C)	Duration (s)	Input power (kW)	Output Power (kW)	Power Gain	Net Excess Power (kW)
Yes	196	302	34.26	54.57	1.59	20.3
Yes	177	296	31.56	63.2	2.00	31.7
No	458	167	41.62	97.39	2.34	55.8
Yes	425	200	39	131.96	3.38	93
Yes	716	50	65	274.2	4.22	210



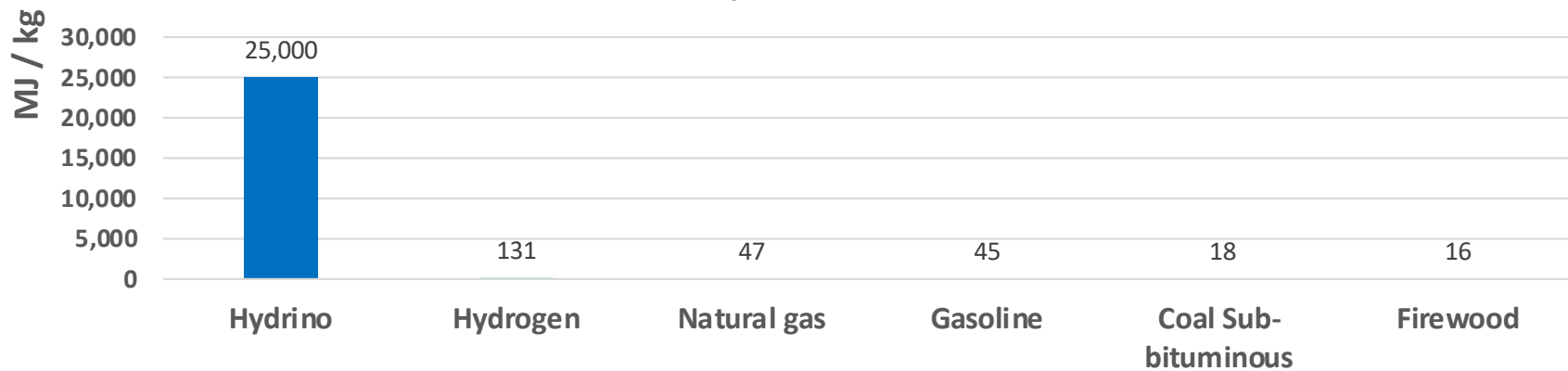
A dramatic, blue-toned image featuring a bright, jagged lightning bolt striking a crown-shaped object on a surface of liquid. The crown is surrounded by a splash of liquid, and the entire scene is set against a dark blue sky and a lighter blue horizon. The text "SunCell®" is overlaid in the center of the image.

**SunCell®**

# Hydrino®: Net Energy Release of 2.78 GJ (800 kWh) per Liter of Water Electrolyzed to H<sub>2</sub> Fuel (200 times the energy of burning the equivalent hydrogen)



## Heat Value Comparison to Various Fuels

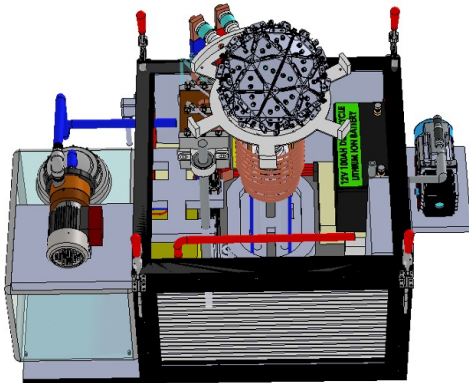




# TPV-SunCell®: Primary Power Source That Will Change the World

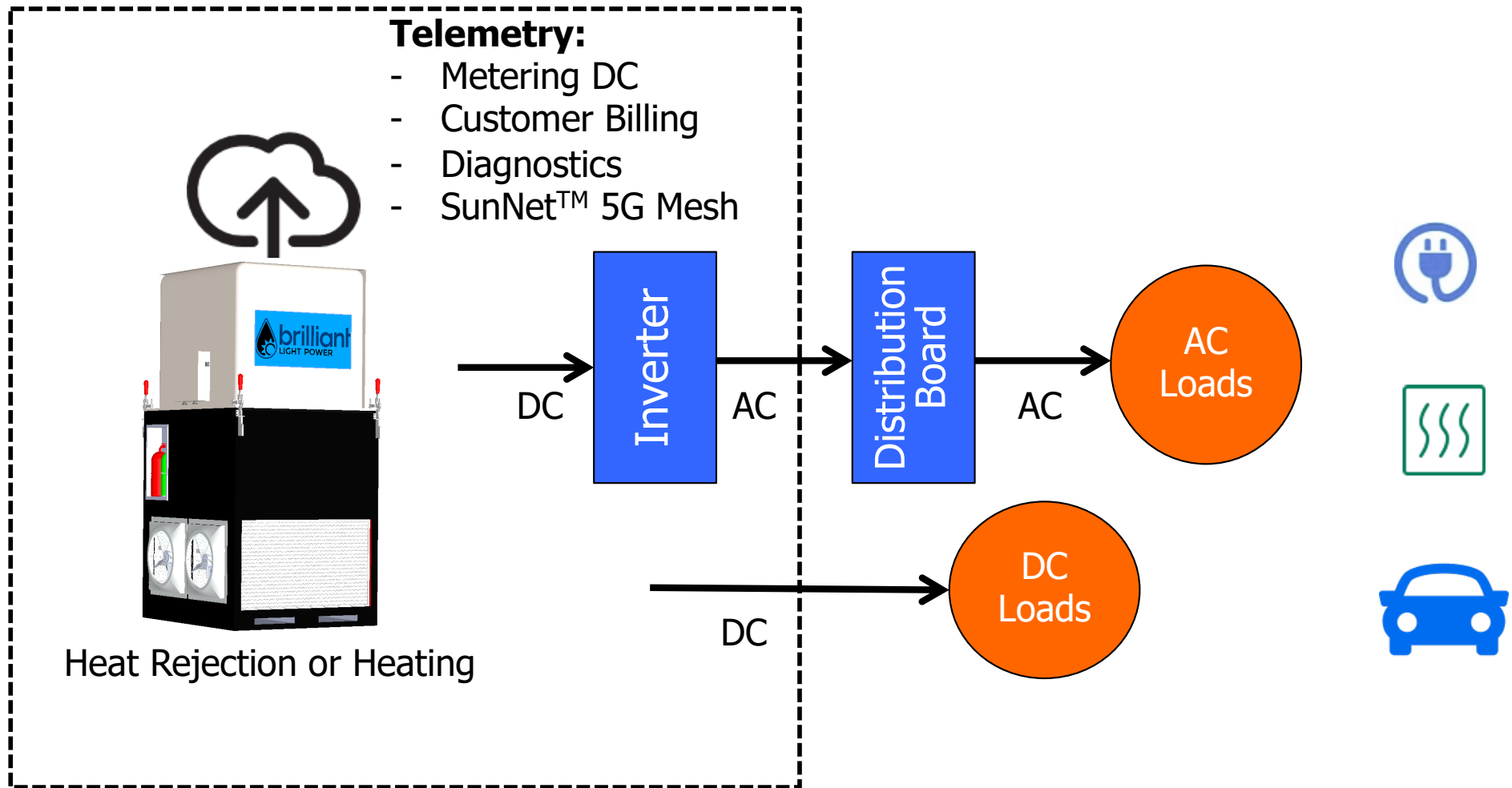


SunCell ® with Thermophotovoltaic (TPV) Converter (**projected \$15-20/kW capital cost**)



- No moving parts.
- Parts are commercially available.
- Parts are reusable or recyclable.
- Conventional materials in production – not subject to rare or obscure inputs.
- No supply chain issues.
- Massive photovoltaic manufacturing capacity at 1000 times conventional due to 1000 times intensity light.
- Modular and scalable to any power capacity by ganging-DC or AC with converter.
- No utility gatekeeper bottleneck-also no transmission, distribution, or demand charges.
- No OEM bottleneck gatekeeper.
- No FERC regulation due to lack of grid connection-local generator permit.
- Safe, sealed system at less than 1% atmospheric pressure.
- 1/10<sup>th</sup> Capital Cost , no metering, lease power model per diem (~\$0.001/kWh DC cost).
- No pollution of any kind including greenhouse gases.
- No fuel availability, storage, price or supply volatility, or pollution issues-H<sub>2</sub> gas can be generated in-situ by electrolysis of water as the fuel.
- No infrastructure (e.g. grid, gas pipeline, river cooling) required.
- No Intermittency, complex installation, duct work, fuel storage, fumes, noise, and toxic exhaust.
- Grid for instant backup during learn-out.

# TPV- SunCell® Turnkey System (Basic)



The SunCell® with an TPV converter can support either direct DC loads or AC loads with the addition of standard inverter technology as used by the solar industry today. Lessee just buys electric appliances and inverter if required. No development necessary.

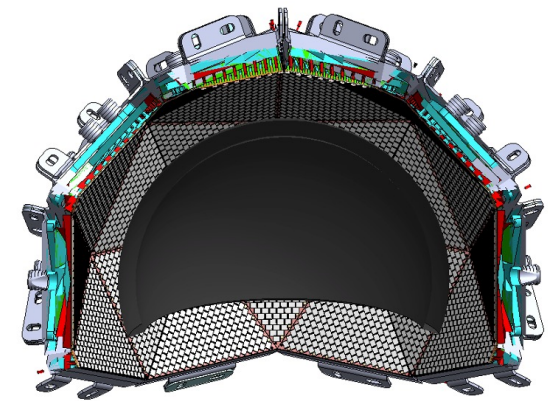
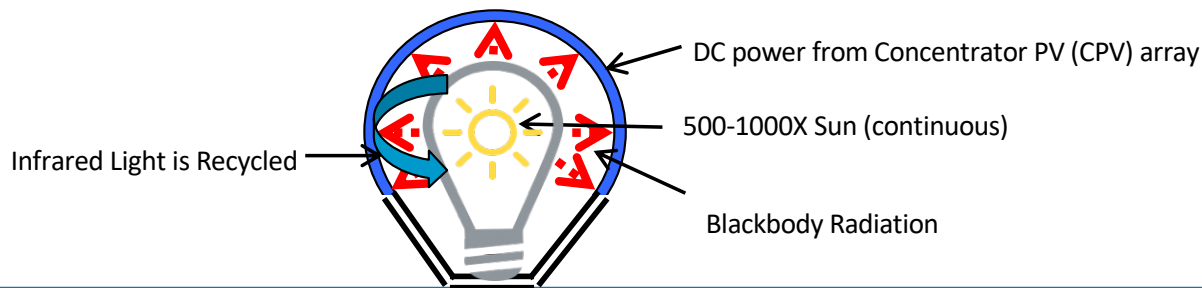


# TPV-SunCell®: How It Works

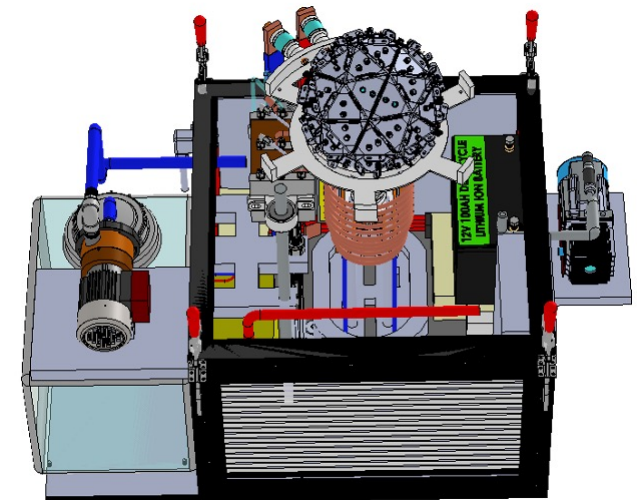
Product with widest market implications utilizing existing TPV technology

## How it works:

- A plasma cell injects hydrogen and catalyst; two electromagnetic pumps serve as electrodes by injecting intersecting molten tin streams from corresponding reservoirs wherein the connected streams carry a low voltage, high current to form a Hydrino®-reaction plasma in a reaction chamber, and the tin is recirculated internally to continuously supply the injection.
- Plasma is generated through Hydrino® process.
- Plasma comprises a 3000-5000 Kelvin blackbody radiator that emits brilliant light similar to the operation of a tungsten filament in a halogen bulb.
- Radiation transfers power at 10 to 100 times the power per area compared to conduction and convection.
- The 3000-5000K plasma emits radiation at a power density of 4.6 to 35 MW/m<sup>2</sup>, corresponding to an extraordinary 150 kW to 1.14 MW transmitted through an 8-inch diameter window, respectively.
- Light emitted is converted by dense receiver array of concentrator PV cells delivering the power output.
- Infrared light that is PV inactive is reflected to the blackbody, absorbed, and recycled as more blackbody radiation to greatly increase the efficiency to as high as 85%.



**Dense Receiver Array Side of Geodesic-Dome TPV Converter**



**SunCell ® with TPV Converter**

# TPV-SunCell®: Stationary Electric Applications

\$4.8T addressable market. Electric lease revenue model.



Industrial



Commercial



Residential

# TPV-SunCell®: All-Electric Thermal Applications

\$3.5T addressable market. Electric lease revenue model.



Baseboard Heater



Air Heater



Electric Boiler



Heat Pump



Air Conditioner



Electric Oven



Commercial Baking Oven



Electric Furnace



Electric Arc Furnace

# TPV-SunCell®: Motive Electric Applications

\$8T addressable market. Car sales revenue model. Lease revenue model for large kWh usage. Strong value for weight savings, range improvement, and operating costs.



# Global Patent Portfolio

Over \$20M invested in obtaining over 80+ global patents and 100+ patent applications

International Application No.	National Phase Countries Pending/Granted	Currently Granted In
PCT/US08/61455	AU, GC, HK, ID, IN, KR, MX, SG, TW, US, ZA	AU, HK, IN, ID, KR, MX, SG, ZA, TW
PCT/US09/52072	AR, AP, AU, BS, CN, CG, EA, GC, HK, ID, IN, IL, JM, JP, KR, MO, MX, PA, PK, SG, US, TH, VE	AP, AU, CN, EA, GC, HK, ID, KR, MO, MX, PA, TW, ZA
PCT/US10/27828	AP, EA, HK, ID, IN, MX, SG, US, ZA	AP, EA, ID, MX, ZA
PCT/US11/28889	AU, CN, EP, HK, ID, IN, IL, KR, MX, SG, US	CN, EP (DE, ES, FR, GB, IR, IT, ND), HK, ID, IL, MX, SG
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PCT/US2014/032584	AU, BR, CA, CN, EA, EP, HK, ID, IN, IL, JP, KR, MX, TW, US, ZA	CN, EP (DE, DK, CH, ES, FR, GB, IR, IT, ND), TW, ZA
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PCT/US04/035143	US	US
PCT/US01/09055	AU, IN, ZA	
PCT/US18/12635	US, EP, HK	
PCT/IB20/50360	TW, 30 Month Date in June 2021	



# Commercialization





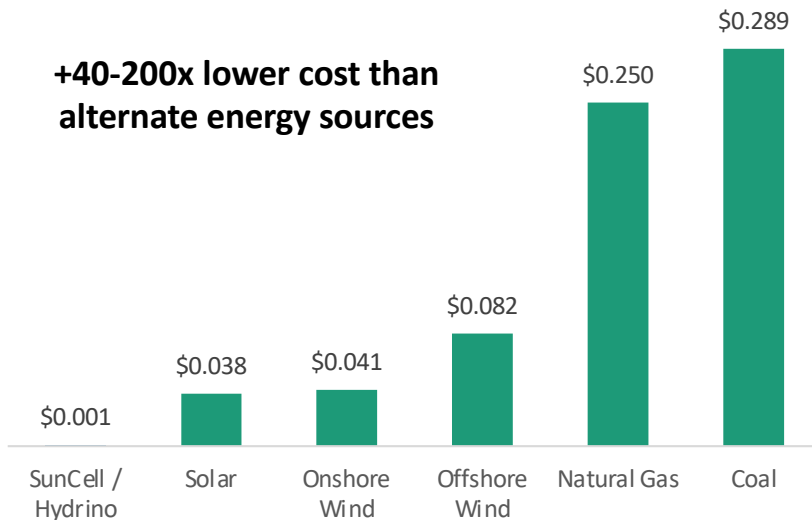
# Significantly Advantaged Economics

Supports market adoption and robust future margins

## Material cost advantage

Cost of Power (\$ per kWh)

**+40-200x lower cost than alternate energy sources**



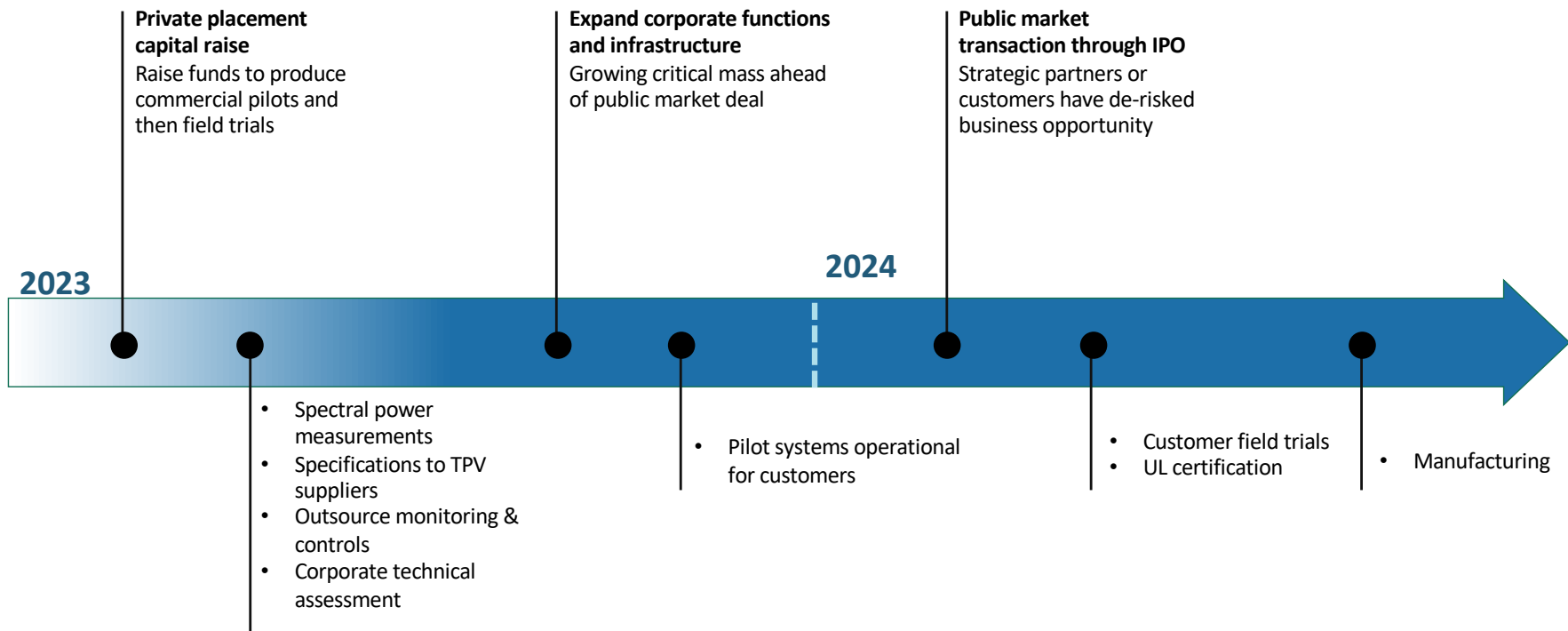
## No supply chain challenges

- Off-the-shelf components
- No rare-earth metals or other component bottlenecks
- Third party manufacturers with capacity lined up
- Short expected SunCell® production cycle

**Ability to offer price discounts to gain market share**

# Go-To-Market Model

Plans to advance to commercialization with TPV-SunCell® for total world electrification



# Key Investment Highlights

1

**Massive addressable markets** applications to displace virtually all energy sources

2

**Working pilot creating net positive energy** at commercial scale

3

**Independently validated** operation, science, theory, power output, & engineering

4

**Zero carbon emissions** or other pollutants (100% clean energy)

5

**Superior energy and power densities and economics** to other energy sources (+40x- 220x)

6

**Global patent portfolio** protects leading technology position



A dramatic, blue-toned image featuring a bright, jagged lightning bolt striking a crown-shaped object on a reflective surface. The lightning bolt originates from the top left and strikes the crown, creating a large splash and a bright reflection on the surface below. The background is a gradient of blue, and the overall scene conveys a sense of power and authority.

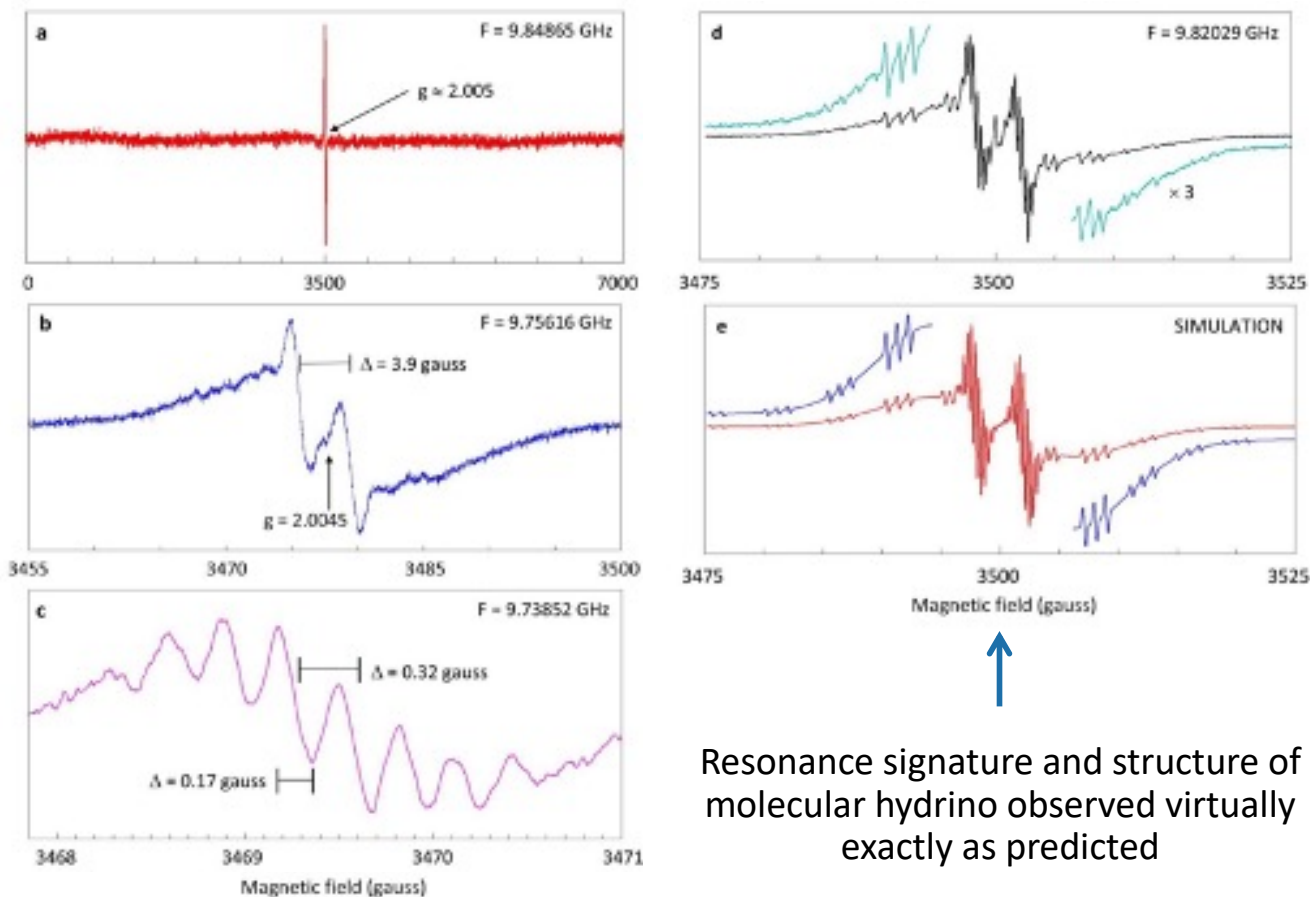
# Appendix

# Hydrino®: Third Party Validation

Publication should trigger wider-spread acceptance

- Paper published in leading international journal authored by Dr. Wilfred R. Hagen.

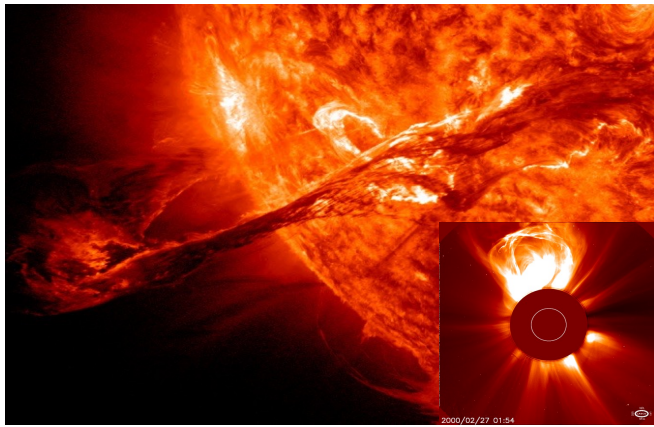
- W. R. Hagen, R. L. Mills, "Electron Paramagnetic Resonance Proof for the Existence of Molecular Hydrino", Vol. 47, No. 56, (2022), pp. 23751-23761; <https://www.sciencedirect.com/science/article/pii/S0360319922022406>.



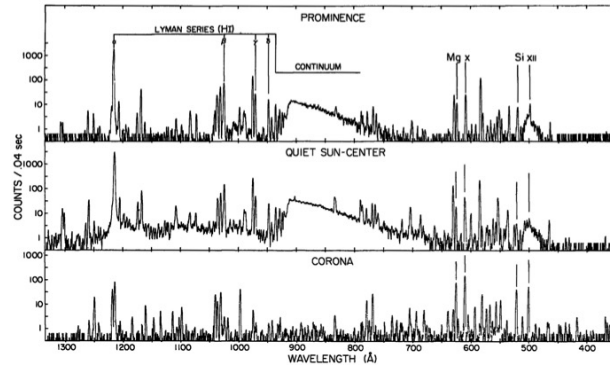
# Hydrino®: Explains Various Inexplicable Physical Phenomena

Supports validation and provides significant and future commercial products and applications

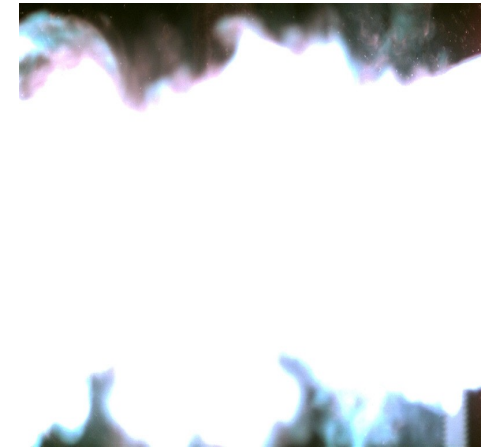
Hydrino® power source in the Sun's corona



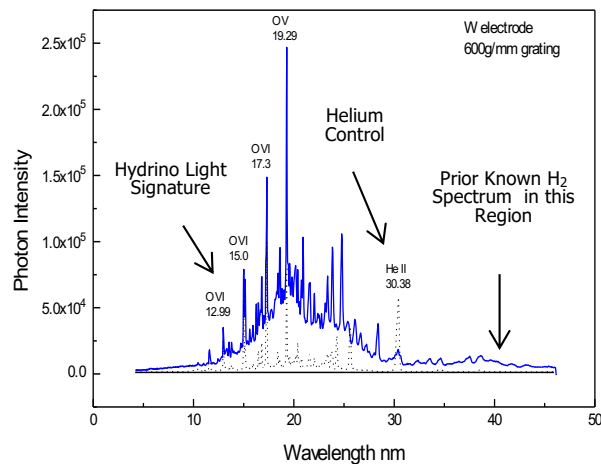
Hydrino® >912 Å continuum in the Sun's corona



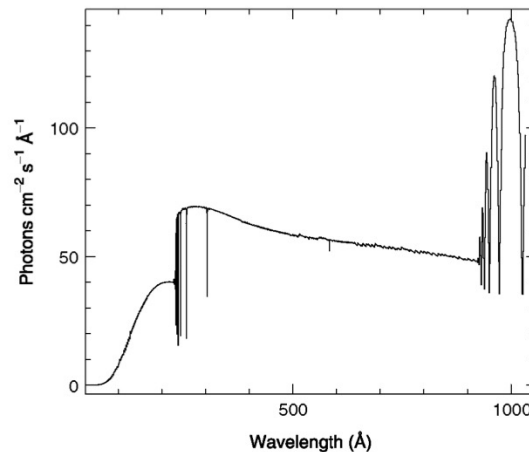
SunCell® EUV continuum emission



Hydrino® EUV continuum emission



EUV spectra of white dwarfs



Distribution of dark matter in the universe

