



brilliant
LIGHT POWER

Briefing
May, 2017

Safe Harbor Statement

This presentation contains forward-looking statements, including statements regarding the company's plans and expectations regarding the development and commercialization of our technology. All forward-looking statements are subject to risks and uncertainties that could cause actual results to differ materially from those projected. The forward-looking statements speak only as of the date of this presentation. The company expressly disclaims any obligation or undertaking to release publicly any updates or revisions to any such statements to reflect any change in the company's expectations or any change in events, conditions or circumstances on which any such statements are based.

Overview & SunCell® Key Points

Overview

Brilliant Light Power, Inc. is developing a new zero-pollution, primary energy source applicable to essentially all power applications wherein the latent energy of the hydrogen atom from water molecules serving as the fuel source is released by forming Hydrinos®, a more stable chemical form of hydrogen. The SunCell® cell was invented by Dr. Mills to release this energy as both heat and brilliant light that can be harnessed by a heat exchanger to power thermal applications and later, directly to electricity using concentrator photovoltaics at an anticipated cost of a small percentage of any competing source of energy.

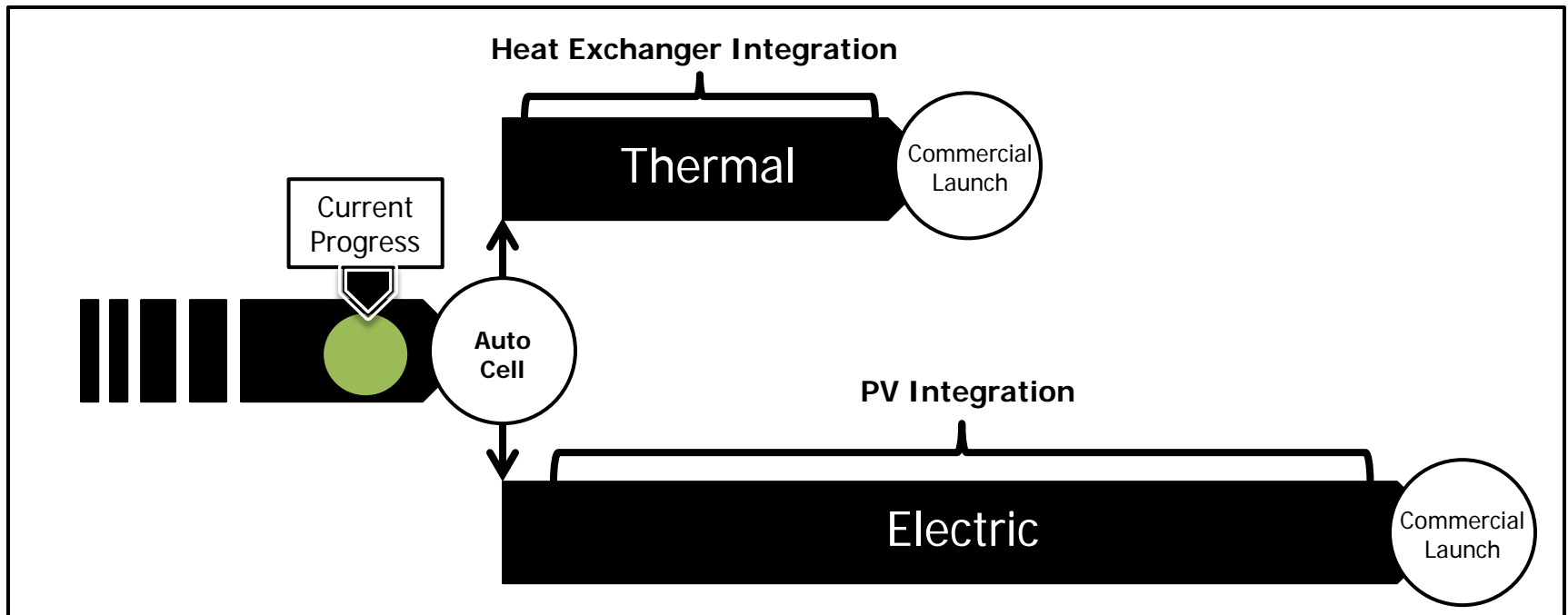
SunCell® Key Points

- The SunCell® is being developed by Brilliant Light Power in conjunction with its engineering partner Columbia Tech (a Coghlin Company)
- The first commercial unit will deliver up to 500kW thermal output and the first electrical unit, 150kW DC net electric output that can be converted into AC using standard inverter technology.
- Energy is generated at a fraction of the cost of conventional fossil fuel and renewable technology.
- Brilliant Light Power will deliver the SunCells® through a distributed model whereby the user will lease the generator on a per diem basis and will reduce energy costs by >50%.
- Brilliant Light Power intends to directly lease SunCells® in ~30 countries and will build a network of agents and partnerships to service the rest of the world.

SunCell® development program

The SunCell® development program is broken into commercial pathways following the “Automated Cell” engineering milestone:

- **Thermal** – The integration of the SunCell® with heat exchanger technology to create a commercial heater capable of delivering 500kW for boiler, hot air, or hot water thermal systems
- **Electric** – The integration of the SunCell® with concentrator PV technology to create an electrical generator delivering 150kW of DC power



Thermal SunCell® specifications

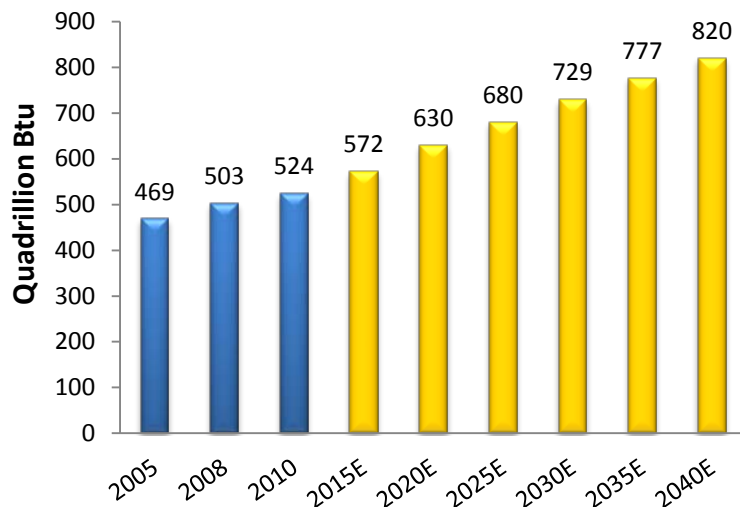


Feature	Est.
Power Output	Up to 500kW THERMAL
Conversion	Heat Exchanger
Thermal Transfer Media	Water, Steam, Air
SunCell dimensions (L,W, H)	0.5x0.5x0.5m
Heat Output	Up to 3500 Degrees K
Blackbody Radiator Power Density	5 MW/m ²
Weight	100 kg
Warm-up Time	<1 min
Self-consumption power	<3 kW
Response Time (standby to peak)	~100ms
Service Life	15 years
Noise Emission	Sound Proofed
Degree of protection (per IEC 60529)	
Climatic category (per IEC 60721-3-4)	

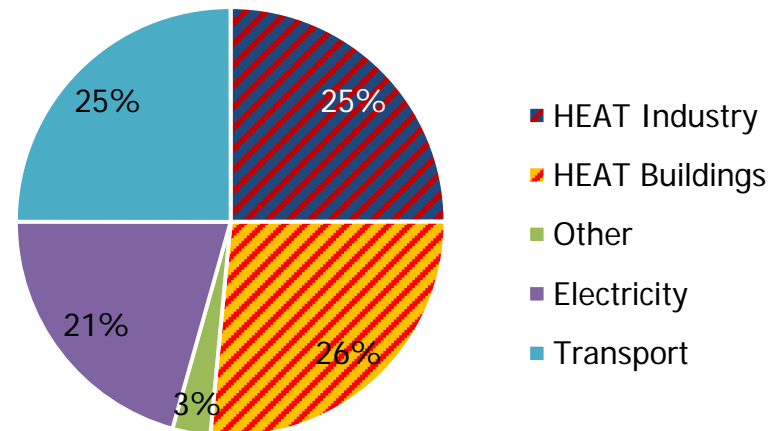
Global "Heat" Market

- \$8 trillion~ expended on total fossil fuels globally in 2013
- 1/2+ of final energy consumption for Heat applications in Industry and Buildings
- 3/4 Heat from fossil fuels
- 1/3 of worldwide CO2 emissions from Heat sources
- Modest average annual growth of 2.6% from 2008-2012

Global Energy Consumption



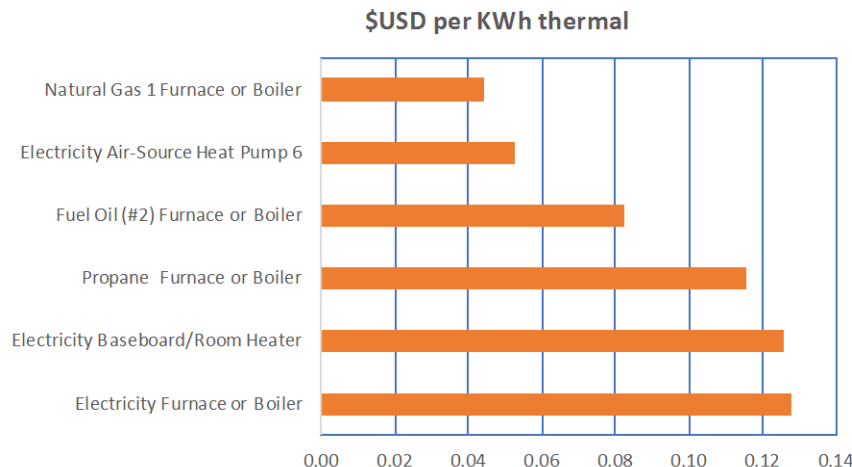
Final Energy Use



Sources: EIA IEO 2013, International Energy Agency and management estimates, Heating Without Global Warming – International Energy Agency 2014
 172 EJ for Heat = 163 Quadrillion Btu
 Carbon emissions from burning biomass for energy, Partnership for Policy Integrity

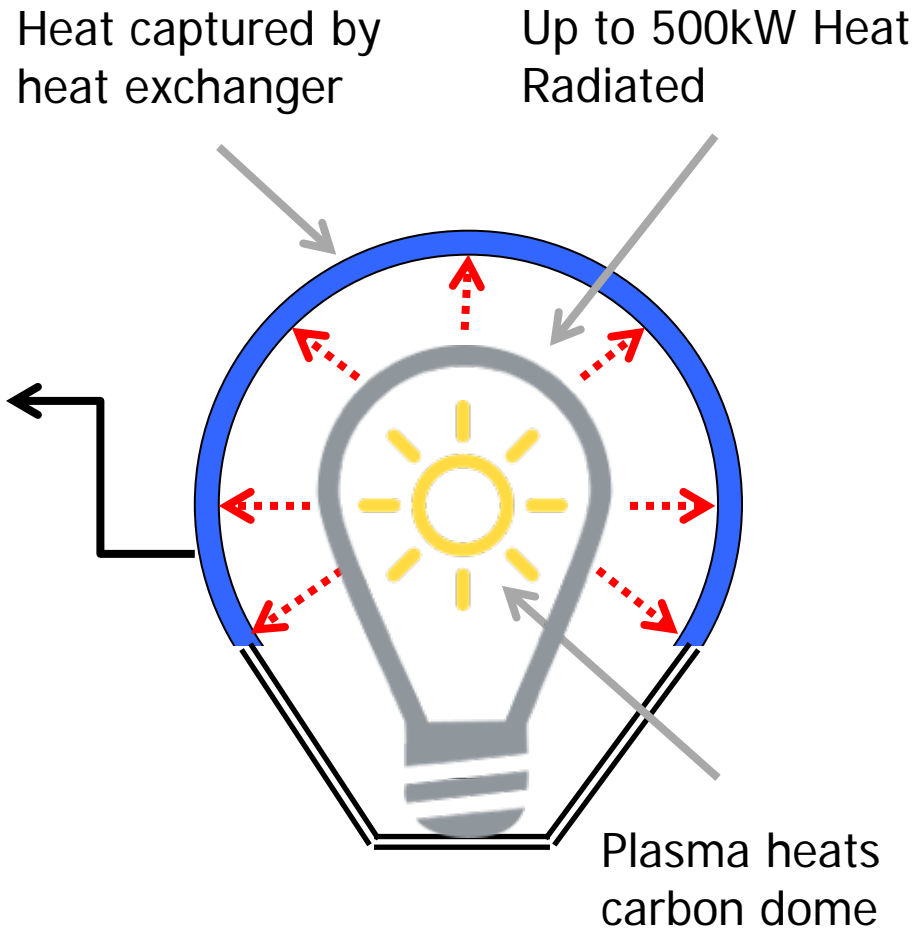
Heat Costs & Equipment Vary Widely

- Existing heat fuel sources are diverse
- Equipment offerings range from primitive to massively complex:
 - Biomass stoves & furnaces
 - Natural gas furnaces
 - Electrical heat pumps
 - Low-grade solar heat for air and water
 - Landfill gas for boilers,
 - Resistive electrical heaters
 - Direct geothermal
 - Co-gen power plant district heat
- US residential heating example
 - Costs vary almost 3X depending on the fuel and equipment combination
 - Small unit power for a SunCell®, but consider Buildings and Industry



- Target high fuel cost segments & customers that match SunCell thermal output (200KW to 1MW)
- Target high-value industrial partners for applying SunCell to “standardized” segments

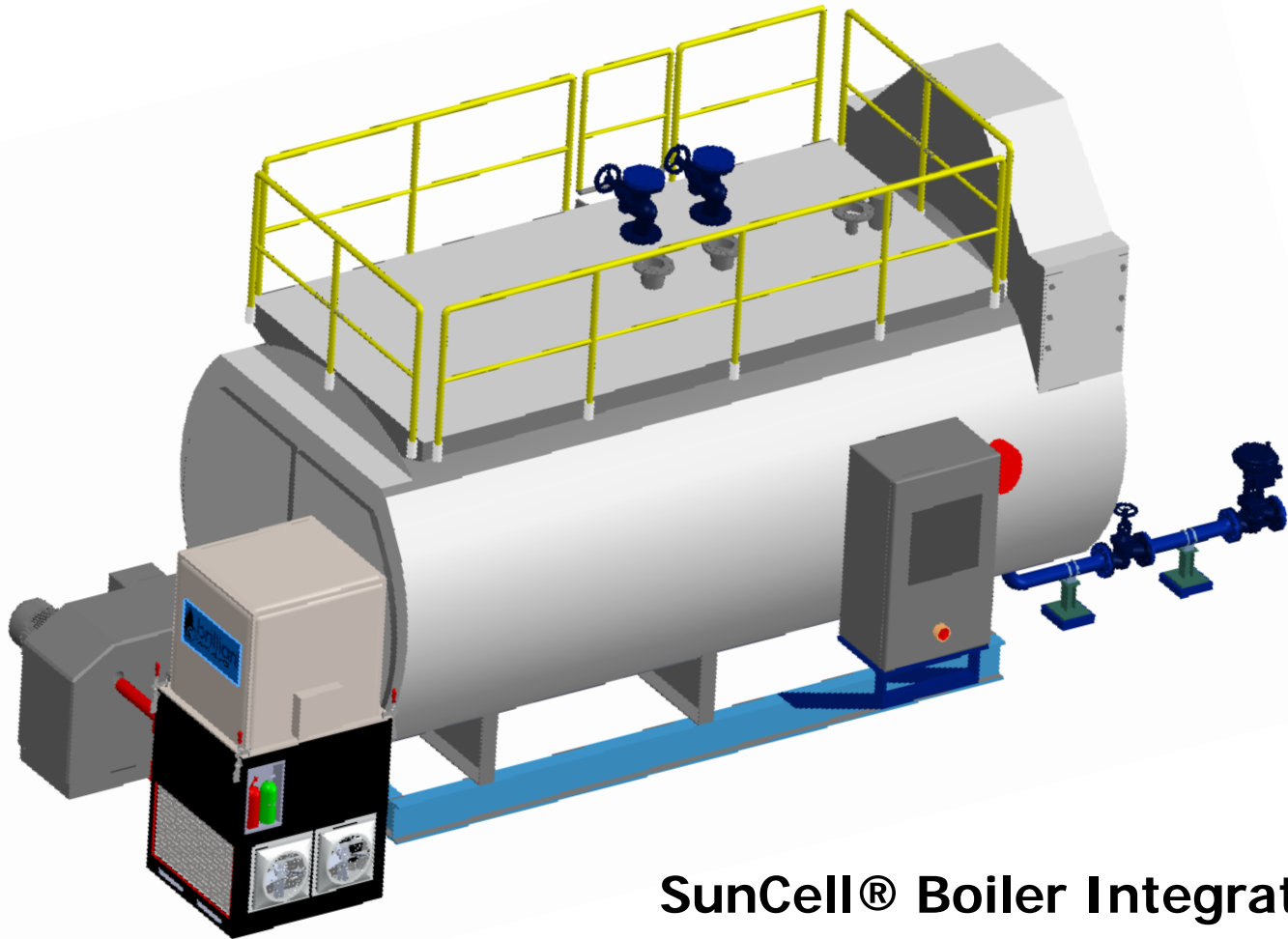
How the Thermal SunCell® Works



The Process...

- Plasma is generated through Hydrino® process.
- Plasma heats the carbon blackbody radiator to between 3000 and 3500 Kelvin.
- Blackbody radiator emits up to 500kW of equivalent heat
- Emitted heat is captured by a heat exchanger and heats water, air, or steam to drive a number of thermal applications

Thermal SunCell® application example



SunCell® Boiler Integration

Electric SunCell® specifications



Feature	Est.
Power Output	150 kW DC or AC
DC Voltage	~380 or ~760
AC Inverter for 50/60 Hz	Option
SunCell dimensions (L,W, H)	0.5x0.5x0.5m
Photovoltaic Power Density	2000 Suns
Blackbody Radiator Power Density	5 MW/m ²
Weight	100 kg
Warm-up Time	<1 min
Self-consumption power	<3 kW
Response Time (standby to peak)	~100ms
Service Life	15 years
Noise Emission	Sound Proofed
Degree of protection (per IEC 60529)	
Climatic category (per IEC 60721-3-4)	

Note: Gen 2 will be capable of 250kW net DC output from same design specs

Global Electricity

- \$3.5 trillion~ global market at \$0.12 per kWh at site
- \$1.5 trillion addressable market for SunCell at breakthrough rate of ~\$0.05 per kWh
- 28% demand increase by 2025

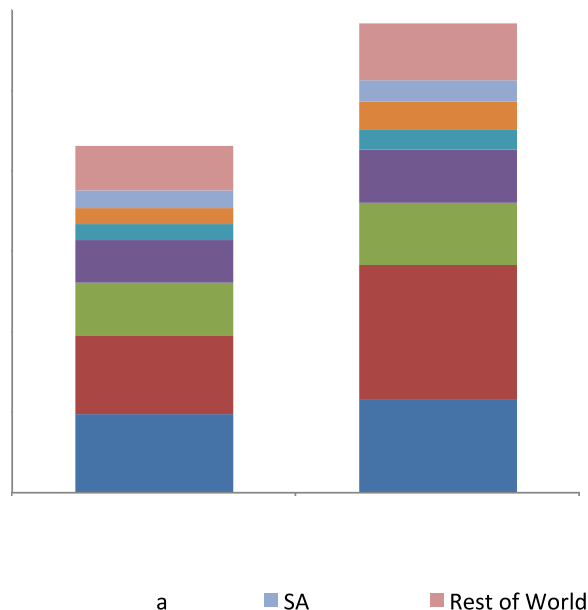
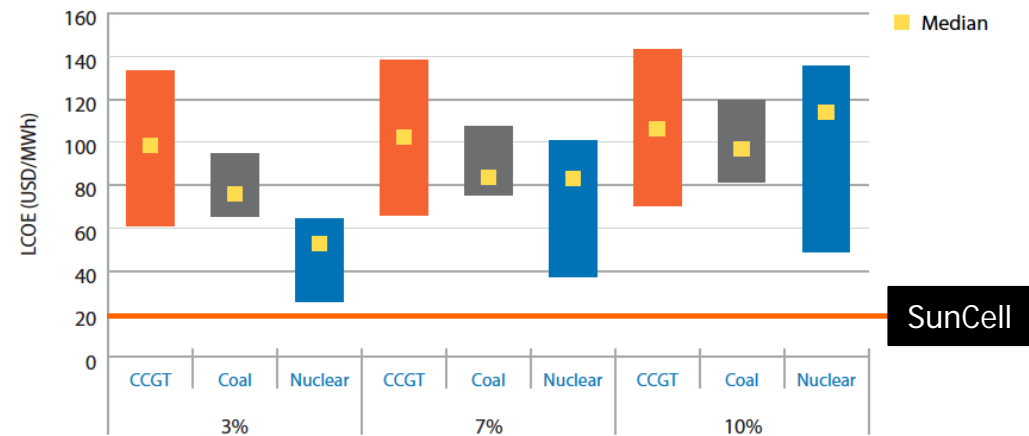
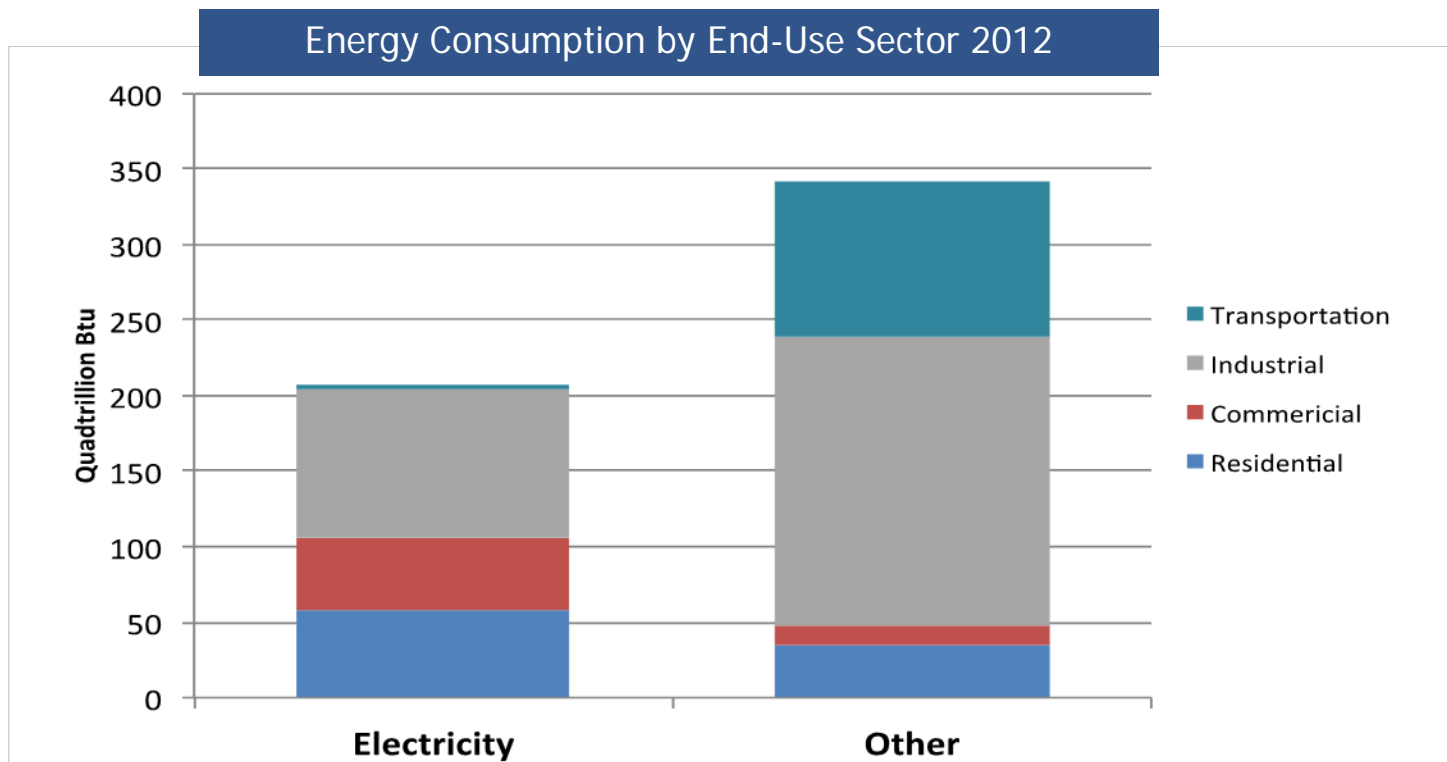


Figure ES.1: LCOE ranges for baseload technologies (at each discount rate)

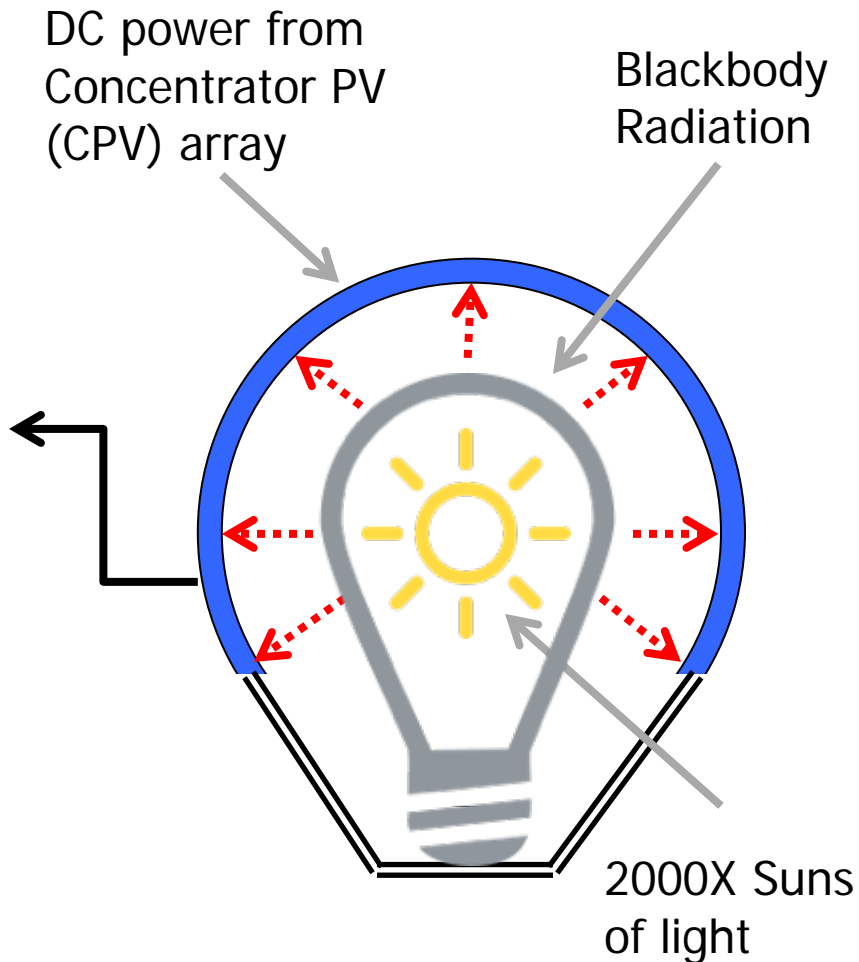


Global Electricity and Other Energy Sources

- Global electricity markets an obvious fit for SunCell – 42% value and 38% of total energy use
- SunCell applications in non-electric markets even bigger potential
- Energy use expected to expand with disruptive technology, as seen in telecommunications



How the SunCell® Works

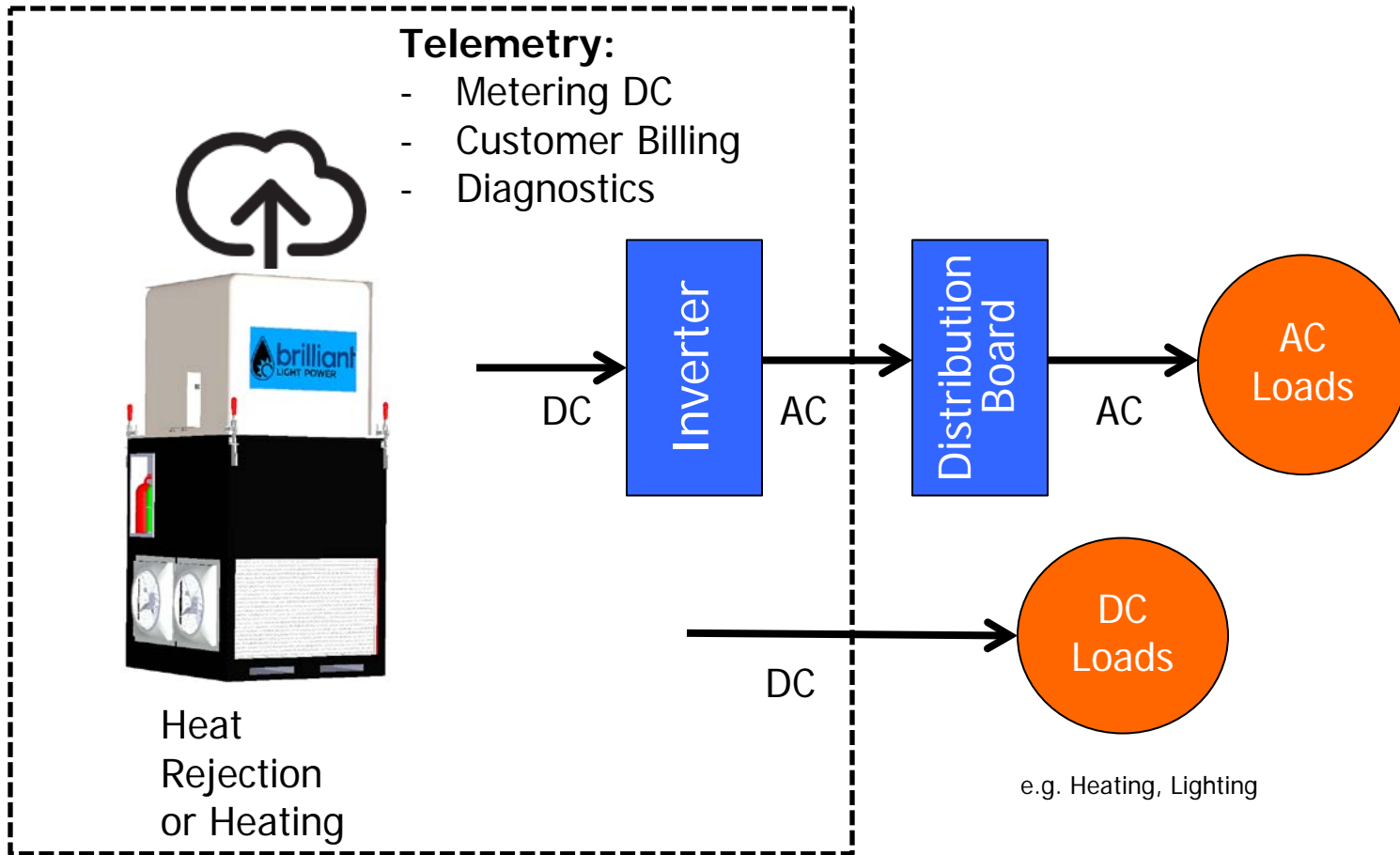


The Process...

- Plasma is generated through Hydrino® process.
- Plasma heats the carbon blackbody radiator to between 3000 and 3500 Kelvin.
- Blackbody radiator emits brilliant white light, similar to the operation of a tungsten filament in a halogen bulb.
- Light emitted is converted by a geodesic dome of concentrated PV cells delivering the power output

NOTE: Plasma light cannot be directly converted by the concentrator PV cells because of the spectrum at which it is emitted (higher energy than existing PV is currently capable of supporting).

SunCell Turnkey System (Basic)



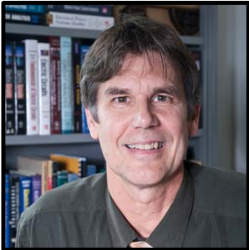
The SunCell® can support either direct DC loads or AC loads with the addition of standard inverter technology as used by the solar industry today.

22 years of research, success and invention...

- Hydrino® power has a higher power density than any other power source known to man, the equivalent of millions of watts per liter.
- The Hydrino® energy source has been validated by 10 different methods including the latest, gold standard, NIST calibrated lamp tests.
- The Hydrino® is ubiquitous in nature, and matches astrophysicists conclusions that so-named dark matter is a different allotrope or different chemical form of hydrogen
- There are five validation reports published on the Brilliant Light Power website from leading experts identifying massive power output from the process. Multiple other validation reports are available under NDA and upon request from unfunded assessments
- Brilliant Light Power will support all requests for validation testing from **qualified** scientists
- There are more than 100 peer reviewed publications to support the Hydrino® including external scientific authors
- Every evolutionary step has produced a higher power density leading up to the commercial development of SunCell®

Validation of Energy Gain by leading experts

<http://brilliantlightpower.com/validation-reports/>



Dr. Peter Jansson, Associate Professor Department of Electrical and Computer Engineering, Bucknell University, PhD from University of Cambridge, BA from MIT. Dr. Jansson has expertise in the research and development of electric power system fundamentals, sustainability, new energy technology systems, renewable and advanced electric power systems, smart grid technology, electronics, and hybrid/electric transportation and grid storage.



Dr. Randy Booker, Professor of Physics, University North Carolina Asheville, PhD and MA from Duke University, BA from Rice University. Dr. Booker has served as Physics Department Chair at UNCA. Dr. Booker reviewed the theoretical work of Dr. Mills in addition to validating spectroscopy and calorimetry experiments.



Dr. K. V. Ramanujachary (Chary), Professor Department of Chemistry and Biochemistry, Rowan University. Chary has extensive expertise in materials science and collaborates with world renowned battery and materials science groups. Chary participated in prior independent validation studies measuring energy from solid fuels and validating Hydrino[®] containing chemical samples.



Mr. Joe Renick, former Chief Scientist for a Defense Contractor. Over 20 years experience at all levels of Research and Development in including managing test and evaluation programs for tier one defense contractors, DTRA and other agencies. Mr. Renick conducted BrLP solid fuel validation programs at third party sites for a prior employer in addition to Solid Fuel and SunCell[®] tests at BrLP.

New Advisory Board Members



Bill Palatucci is one of the state's most prominent and widely respected attorneys, with a reputation for strategic planning and advice regarding complex public policy and communications initiatives. Most recently, following the Republican National Convention through Election Day, Mr. Palatucci served as General Counsel to the Presidential Transition Committee of President Donald J. Trump. In this role, he was responsible for all legal matters related to ethics compliance and contracts and agreements between such agencies as the U.S. Department of Justice, General Services Administration, and the White House. Mr. Palatucci coordinated extensively with internal and external members assisting the transition, providing all necessary legal advice and guidance to facilitate the Transition Committee's interactions with the Trump-Pence campaign, federal departments and agencies, local, state, and federal officials, think tanks, outside experts and consultants, and various other entities and individuals with whom the Transition Committee engaged with during the pre-Election Day time period



Roger Ballentine is the President of Green Strategies Inc., where he provides management consulting services to corporate and financial sector clients on sustainability strategy; investment and transaction evaluation and project development execution in the in the clean energy sector; and the integration of energy and environmental policy considerations into business strategy. He is also a Venture Partner with Arborview Capital LLC, a private equity firm making growth capital investments in the clean energy and energy efficiency sectors. Previously, Roger was a senior member of the White House staff, serving President Bill Clinton as Chairman of the White House Climate Change Task Force and Deputy Assistant to the President for Environmental Initiatives. Prior to being named Deputy Assistant, Roger was Special Assistant to the President for Legislative Affairs where he focused on energy and environmental issues. Before joining the White House, Roger was a partner at Patton Boggs LLP.

A full list of Brilliant Light Power's Advisory Board members can be viewed at this link: <http://brilliantlightpower.com/advisory-board/>

Brilliant Light Power in the media

BrLP's media momentum continues to increase as news of the SunCell® program reaches a greater audience....

SAMPLE PRESS - 2017

CNN - <https://www.youtube.com/watch?v=omUSfYuVT1c&feature=youtu.be>

NBC and CBS Affiliates -

<https://www.youtube.com/watch?v=guwylydr1h8&feature=youtu.be>

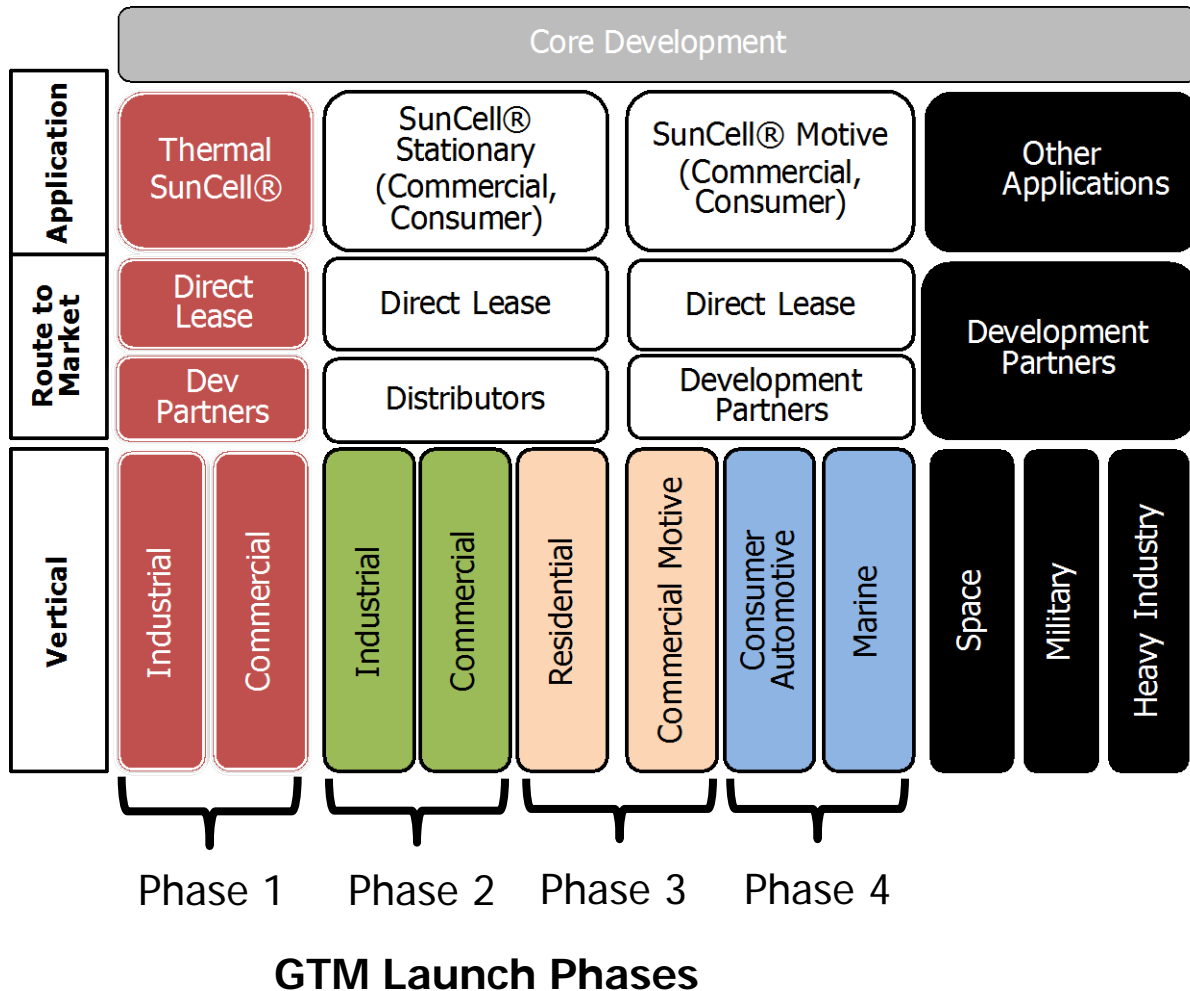
Trends Research Institute - <http://brilliantlightpower.com/wp-content/uploads/pdf/SunCell-TrendsJournal-Winter2017-03-03.pdf>

Falls Church Press- <https://fcnp.com/2017/03/13/great-energy-transition-progress-suncell/>

The latest Brilliant Light Power news can be accessed at our website:

<http://brilliantlightpower.com/press/>

Brilliant Light Power Go-To-Market Model



Phase 1 – Thermal Unit-Launch to Industrial, Commercial and Multi-tenant residential markets

Phase 2 – 150kW Unit - Launch to Industrial, Commercial and Multi-tenant residential markets

Phase 3 – launch to Residential through Direct Lease and Commercial Automotive with Development Partner

Phase 4 – Improved/Modified Units – launch to Consumer Automotive and Marine through Direct Lease and Development Partner models

**Development Partners – Engaged at any phase under Development Partner agreement*

Partner relationships

Strategic Partners

- A partner that is an early adopter of SunCell® technology.
- The Strategic Partner works with BrLP throughout the field trial and production proof of concept phase of the Commercial Launch of a the SunCell®.
- Are offered strategic investment opportunity in BrLP and receive discounted power for their own commercial use.

Distributor

- A partner that has the capability to distribute and maintain the SunCell technology in a given territory or field of use.
- A reputable firm with the necessary connections to overcome certification and regulatory challenges within their territory or field of use.
- BrLP will grant a license as per Distributor pricing terms & conditions

Development Partners

- A commercial interest in the core development of the Hydrino® derived energy source and its derivatives
- Has the engineering and production capability to be able to produce products other than SunCells®.
- License the intellectual know-how of generating Hydrino® based energy to solve for heat, light or electrical power requirements in their own applications.



Thank you!

For more information please visit us at www.brilliantlightpower.com