



Business Presentation 100116

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.

The Energy Problem



Stationary

- 39% of global CO2 emissions
- 43% global power demand growth by 2040.
- 78% of worldwide energy generation still carbon based fuels by 2040



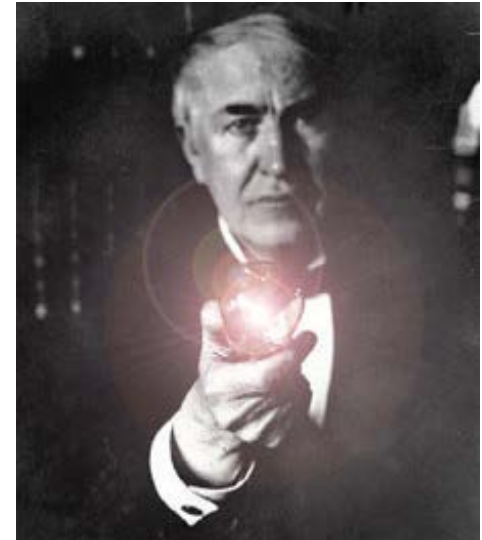
Transportation

- 20% of global CO2 emissions
- Tougher emissions regulations
- Despite excitement in EVs, only 3% of vehicles by 2025
- Battery economics remain a barrier for EVs

What is needed is cheap, non-polluting, fast, easy to site, globally available, 24/7 power; now

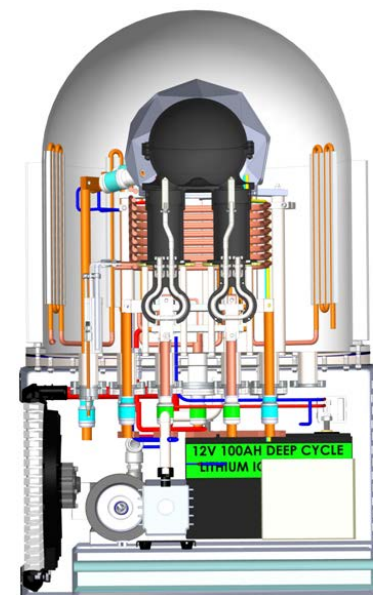
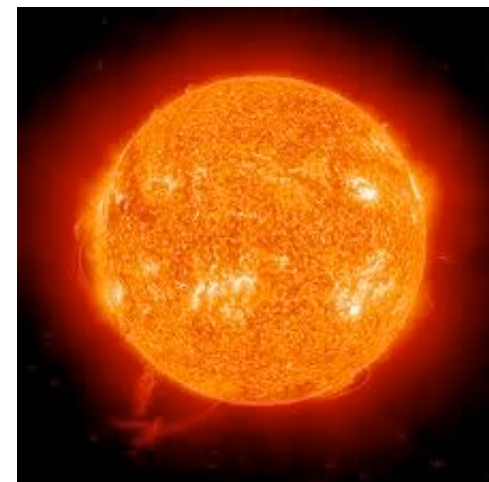
About Brilliant Light Power

- Reinventing electricity, independence of being completely off grid
- New, sustainable, nonpolluting energy
- Technology and science validated by independent third parties
- Extensive proprietary methods and systems
- Electricity company, sales via lease agreement, no metering
- Partnership & outsource business model
- Transitioning from research to reality
- Profound implications for electric power – accessible, affordable, clean



The Solution: SunCell®

- Continuous power source, developed with proprietary technology
- Non-polluting: by-product is harmless lower energy state of hydrogen called Hydrino®, lighter than air, vents to space
- System is sealed with H₂O fuel injected with nonreactive, recirculated silver, absolutely safe materials and operation
- Capital cost estimated at **\$50** to **\$100** per kW at production power & scale, versus **\$3,463** for solar
- No Metering: Electricity sold at about \$0.05 per kWh via a per diem lease fee.
- Low operating cost, only consumable is minimal amounts of water
- Scalable from 10kW to 10 MWs
- Initially stationary, developing to motive
- Field test in 1H 2017
- Commercial launch in 2H 2017



SunCell Economics

Current Annual Gross Earning Capacity of
Any Electrical Generator:

- \$1/W

Capital Cost:

- \$60/kW

Life Span:

- 20 years

Capital Cost Annually:

- \$3/kW

Solar Capital Cost (2013):

- \$3,463/kW^a

Maintenance Cost:

- \$1.20/kW

Generation Cost:

- \$0.001/kWh



^ahttp://www.nrel.gov/analysis/tech_lcoe_re_cost_est.html

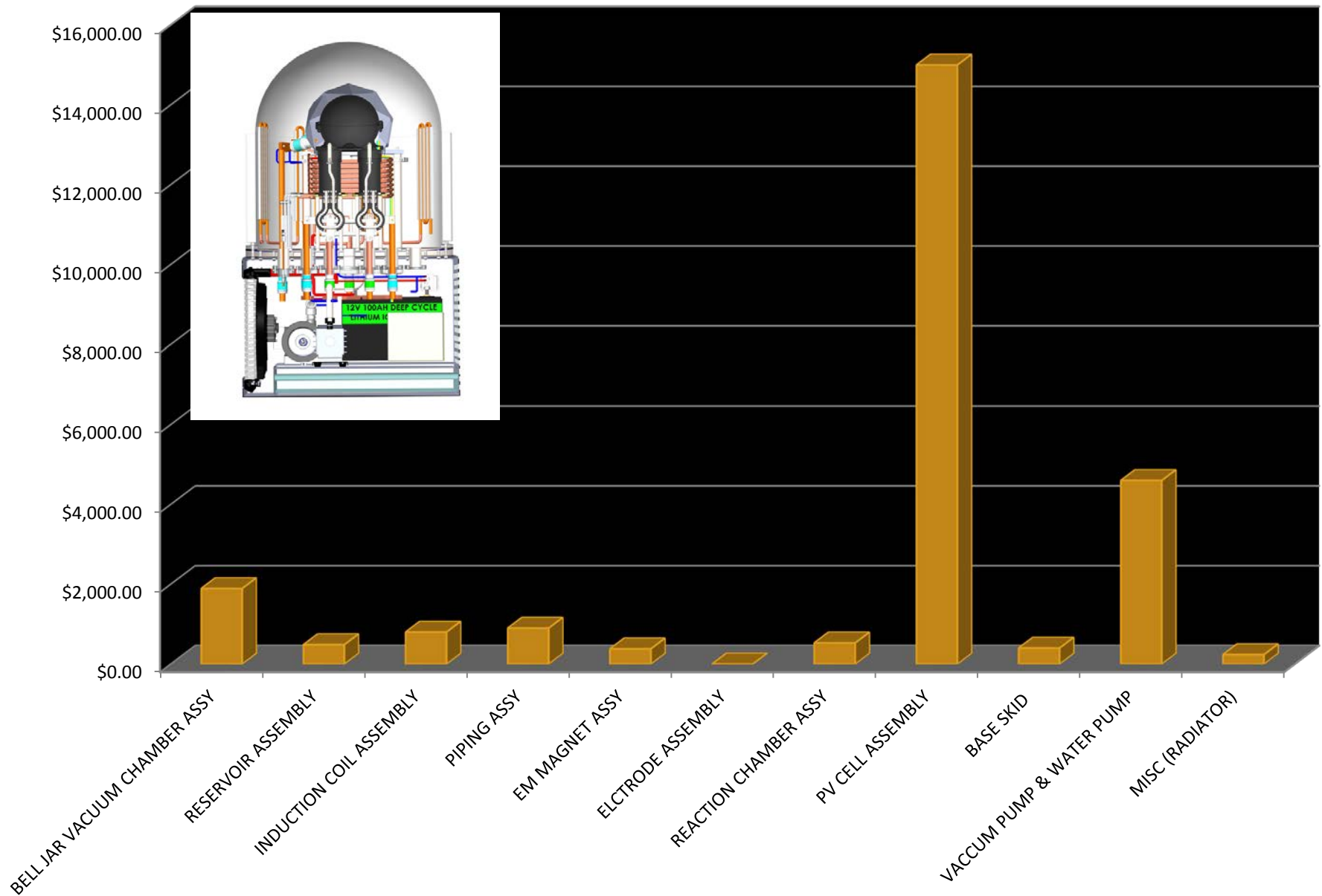
SunCell® CPV Cost Drops Dramatically with Scale

- For SunCell units of $\sim >100$ kW, the cost per kW is essentially that of the PV converter component.
- At a volume of ~ 100 MW/yr, the SunCell® CPV converter is estimated to cost less than \$75 per kW (2000 Suns concentration, 30% efficiency) and less than \$20 per kW (10,000 Suns concentration)
- At 10 GW annual production which is equivalent to the global annual deployment of c-Si solar, the cost of SunCell® CPV converter is estimated to cost less than \$32 per kW (2000 Suns concentration) and less than \$6 per kW (10,000 Suns concentration)

(Kelsey Horowitz, "A Bottom-up Cost Analysis of a High Concentration PV Module", CPV-11, 2015; NREL/PR-6A20-63947)



TOTAL COST 250KW SUN CELL AT SUB ASSEMBLY LEVEL



COST ANALYSIS FOR FIRST OF A KIND 250KW (2000 Suns)

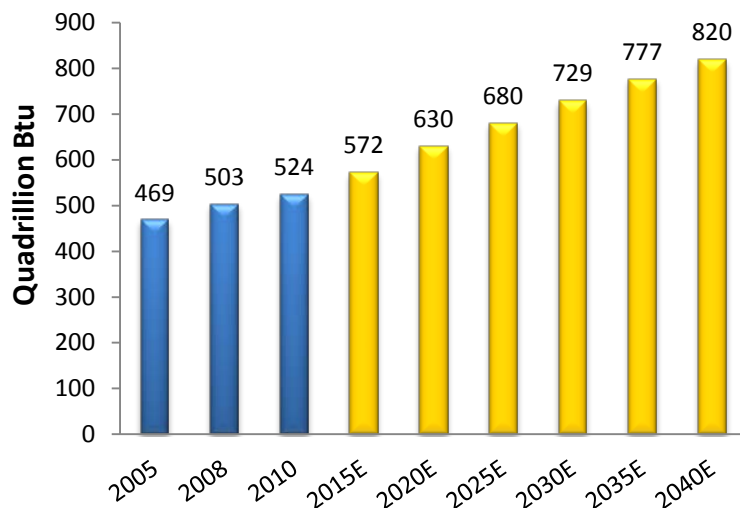


250KW SUN CELL COST ANALYSIS	
DESCRIPTION	TOTAL COST AT SUB ASSY LEVEL
BELL JAR VACUUM CHAMBER ASSY	\$1,891.47
RESERVOIR ASSEMBLY	\$484.17
INDUCTION COIL ASSEMBLY	\$800.00
PIPING ASSY	\$900.00
EM MAGNET ASSY	\$380.00
ELECTRODE ASSEMBLY	\$0.00
REACTION CHAMBER ASSY	\$530.00
PV CELL ASSEMBLY	\$15,000.00
BASE SKID	\$400.00
VACCUUM PUMP & WATER PUMP	\$4,600.00
MISC (RADIATOR)	\$236.00
DESCRIPTION	TOTAL COST 250KW
TOTAL COST	\$25,221.64

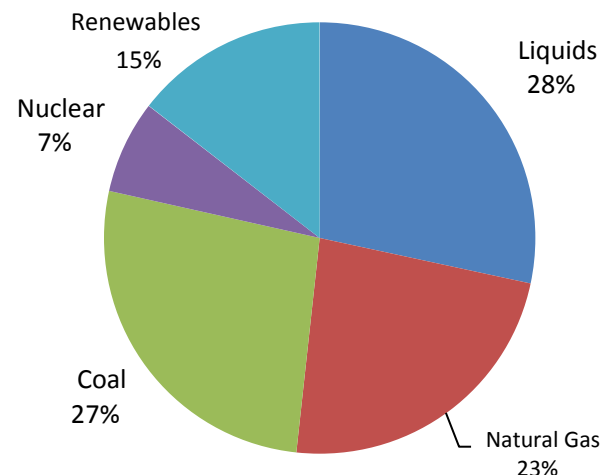
Global Market

- \$8 trillion~ expended on total fossil fuels globally in 2013
- \$1 trillion+ annually for energy infrastructure through 2030
- Energy demand has nearly doubled over the past 20 years, projected to increase 56% from 2010 to 2040
- Renewable energy to satisfy only ~15% of demand by 2040
- Wind and solar are relatively poor sources of baseload power

Global Energy Consumption



Global Energy Use by Fuel 2040



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 about \$0.05 per kWh
- 28% demand increase by 2025
- SunCell expected to expand electrical use, fueling new growth
- SunCell estimated generation cost ~\$0.001 per kWh

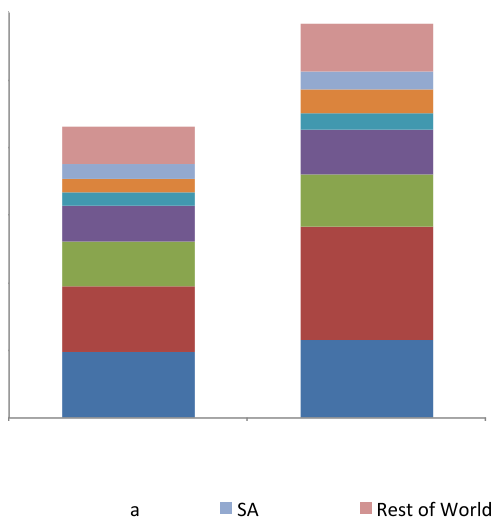
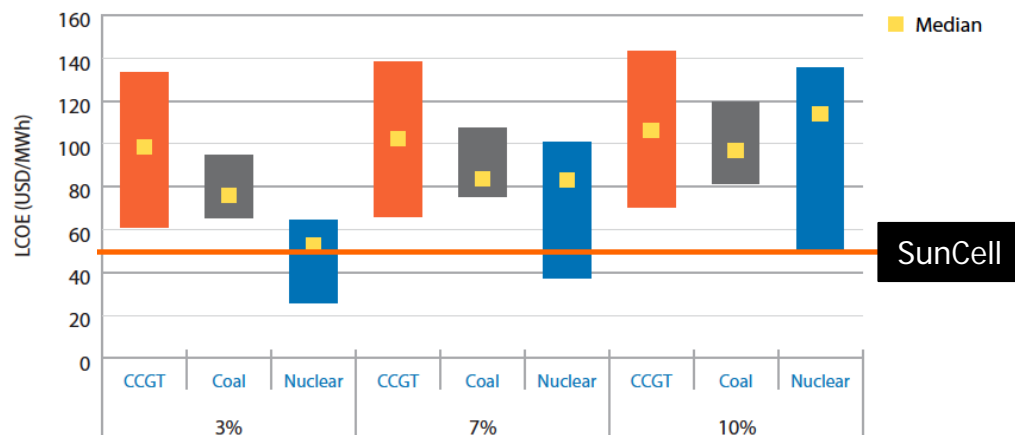


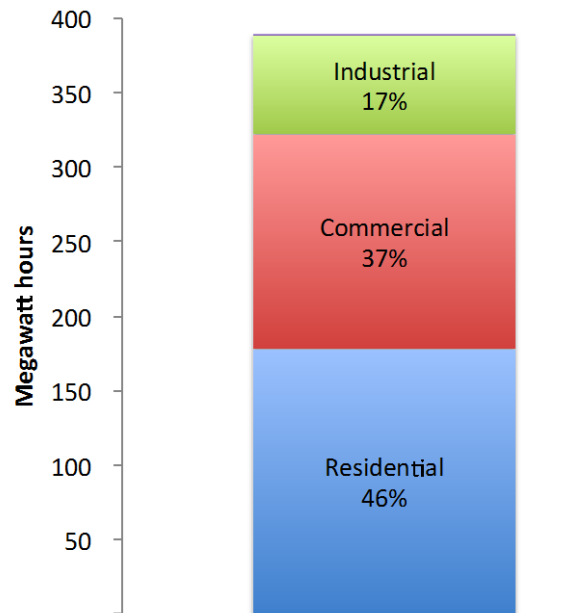
Figure ES.1: LCOE ranges for baseload technologies (at each discount rate)



US Electricity

- \$387 ~ billion market
- Average consumer price of \$103 per MWh, double SunCell goal of \$50 per MWh
- US residential larger percentage than Global markets
- SunCell breaks entry barriers:
 - Always on power, low capital cost, low operating cost, huge power density, no pollution
 - Off grid without corresponding regulations or transmission and distribution costs of >\$38 per MWh

US Electricity Revenue 2015 (\$B)



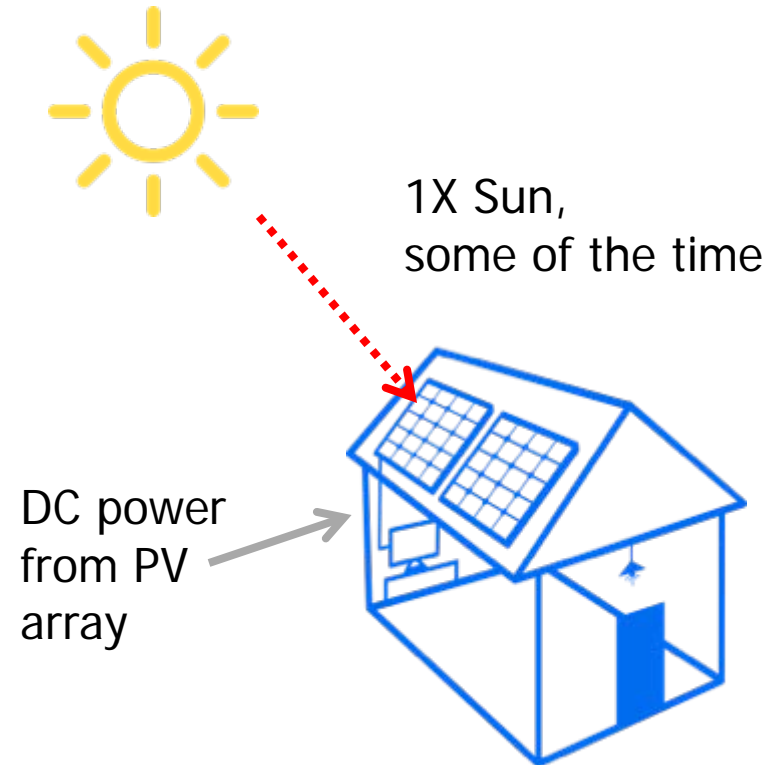
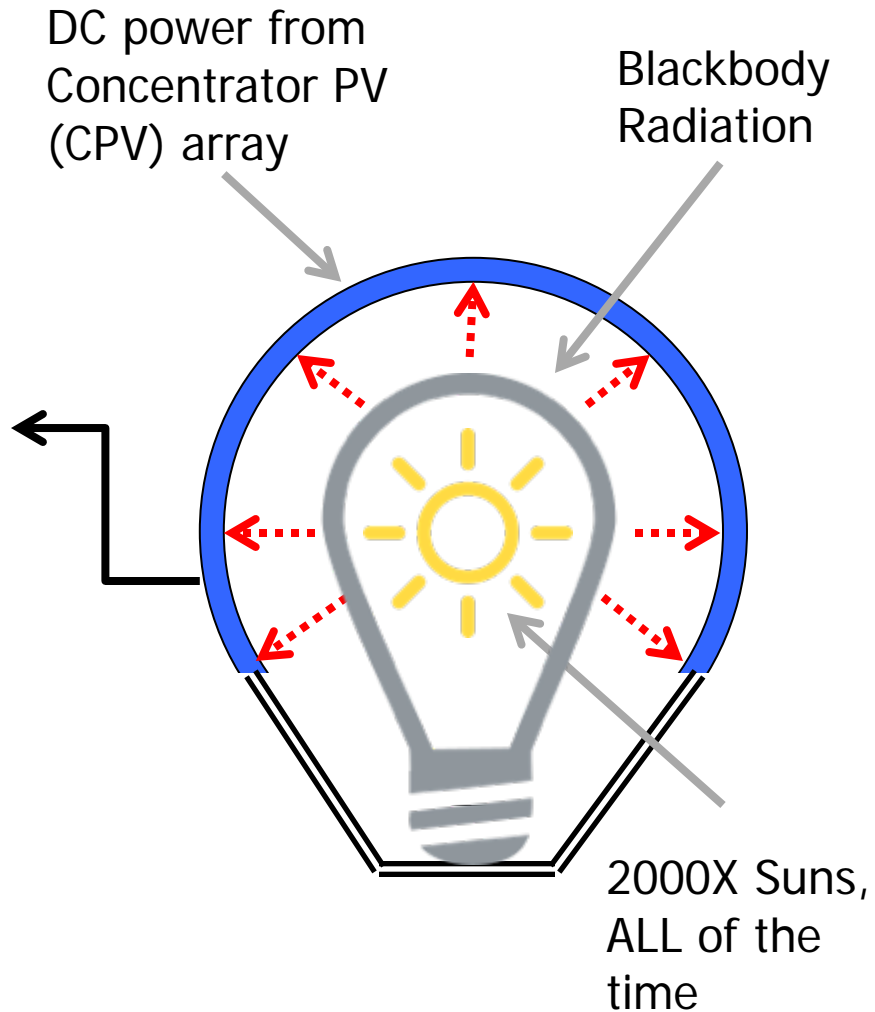
Levelized Avoided Cost of Electricity (LCAE) New Generation

Advanced Coal	NG w/ Combined Cycle	NG w/ Advanced CC	Advanced Nuclear	Solar PV
\$70.9	\$71.4	\$71.4	\$72.1	\$80.4

Levelized Cost of Electricity (LCOE)

Advanced Coal	NG w/ Combined Cycle	NG w/ Adv. CC	Advanced Nuclear	Solar PV	SunCell
\$116	\$75.2	\$72.6	\$95.2	\$114.3	\$50-70

SunCell® vs Solar PV

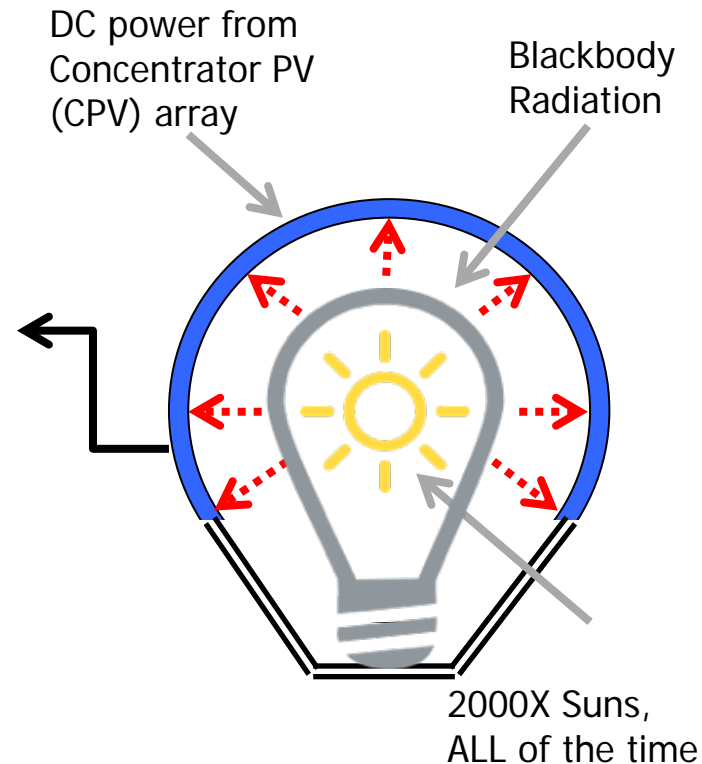


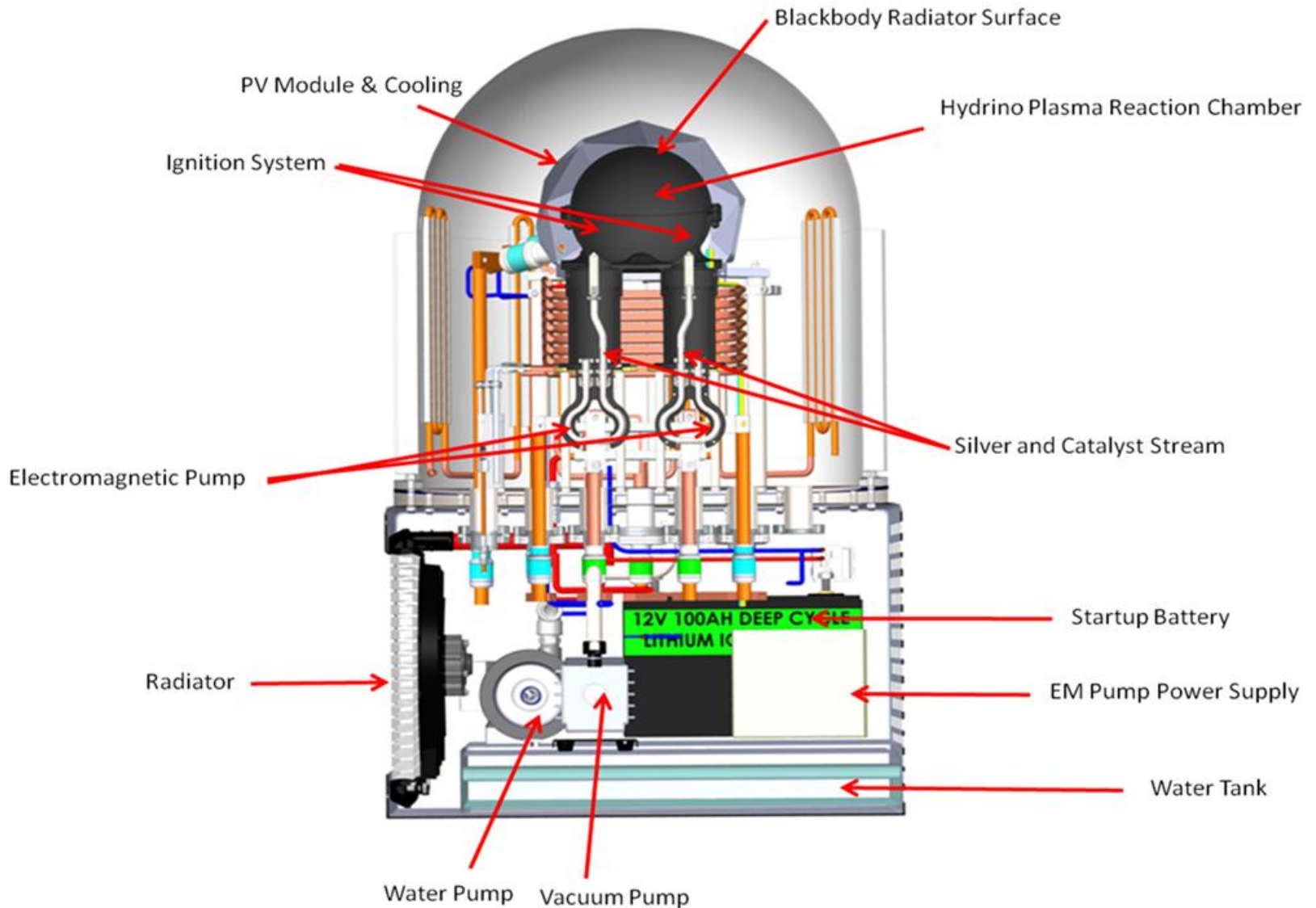
Product Development Foundation

- SunCell converts the short wavelength light to a blackbody radiation, resembles the emission of the Sun
- Blackbody temperature is adjusted to more closely match the response spectrum of commercial PV
- Rapid, low cost development approach

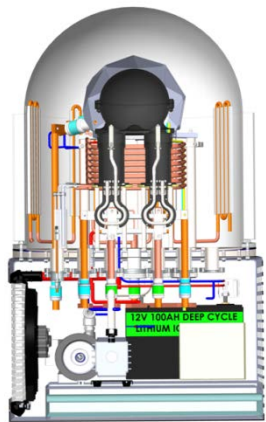
Established Foundation

- Theory solved, IP filings
- Light source demonstrated
 - Certified by five validators
 - Four confirming methodologies
- Advanced thermophotovoltaic (CPV)
 - Suppliers selected
 - CPV cell design
 - Dense receiver array design
- Black body radiator design
- Costed bill of materials
- Engineering Design Drawings
- Light source prototypes





Spectral Emission in the High Energy Region Only

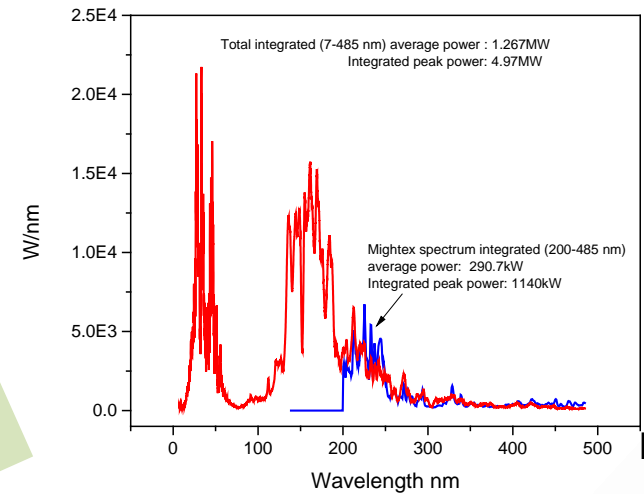


Plasma Ignition



Measurement

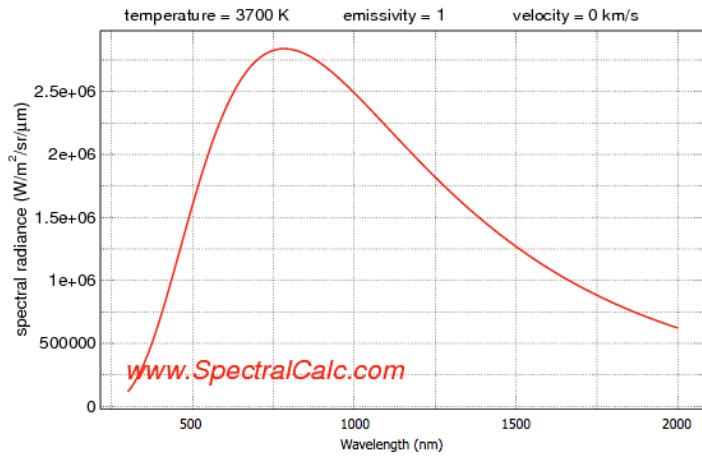
Plasma Emission
(Power Calibrated Spectrum)



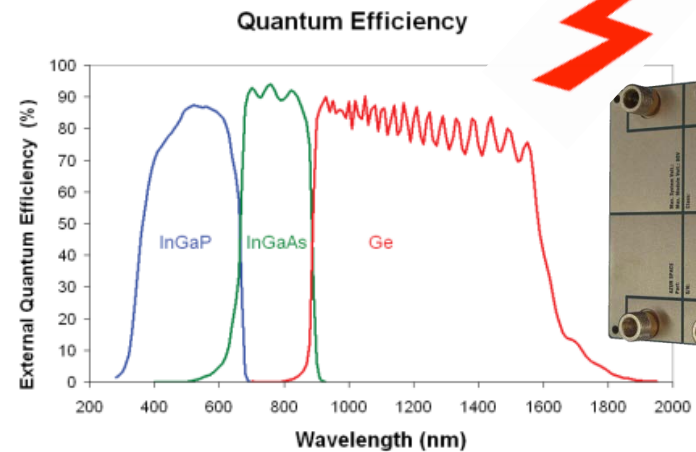
DC
Power

Absorb to BB

Re-emit to CPV



SunCell Blackbody Radiator



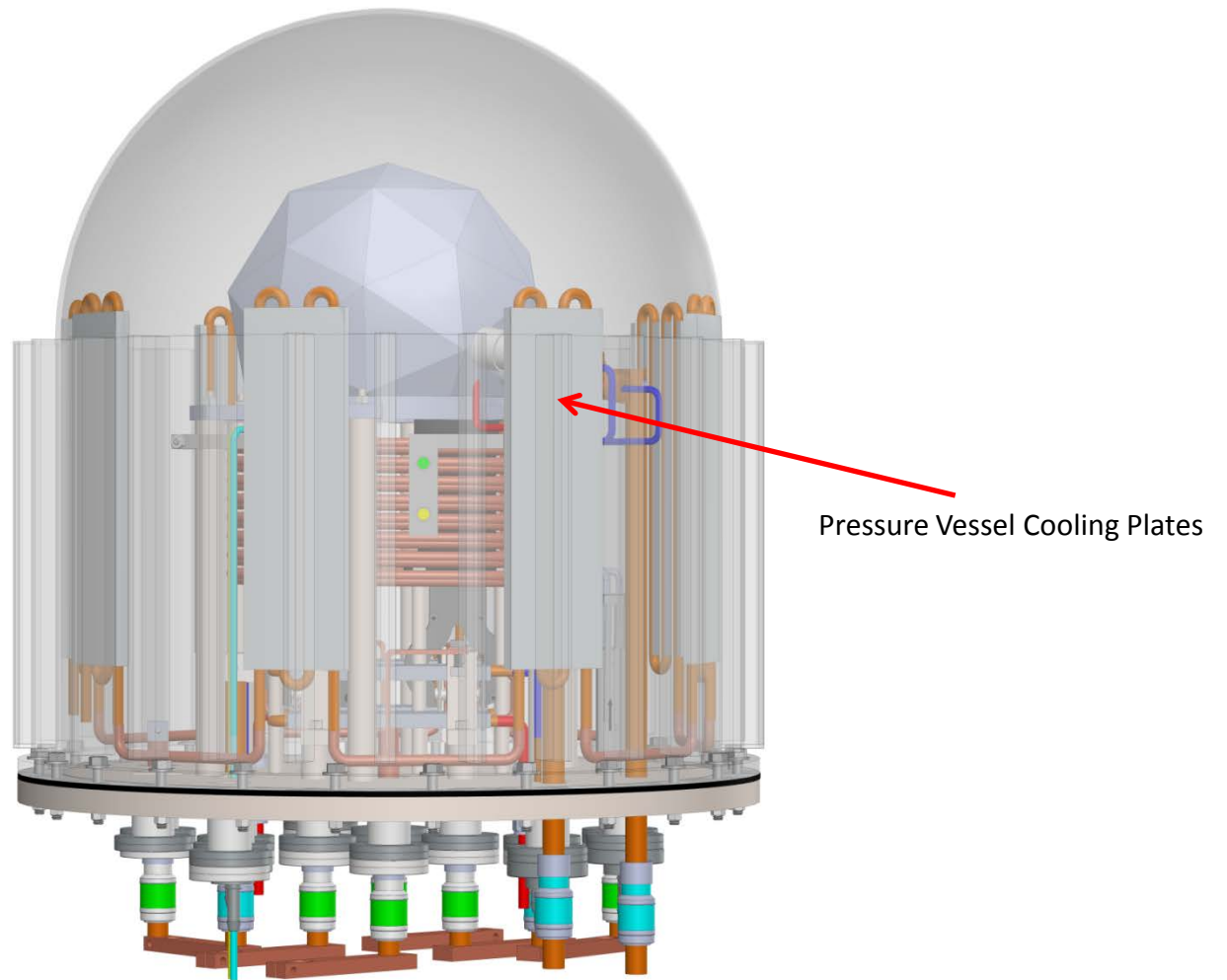
Concentrator PV
Power Conversion Spectrum

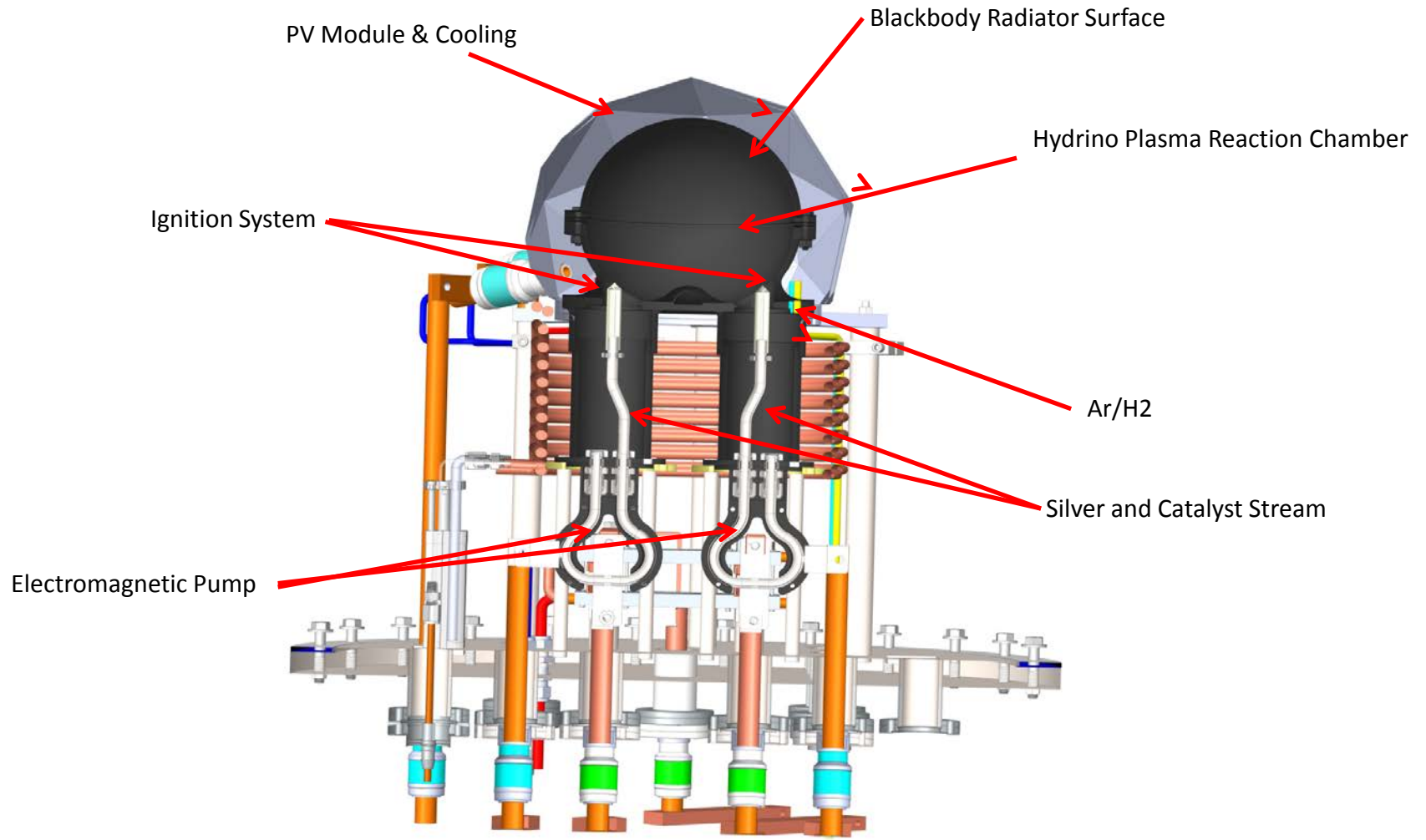


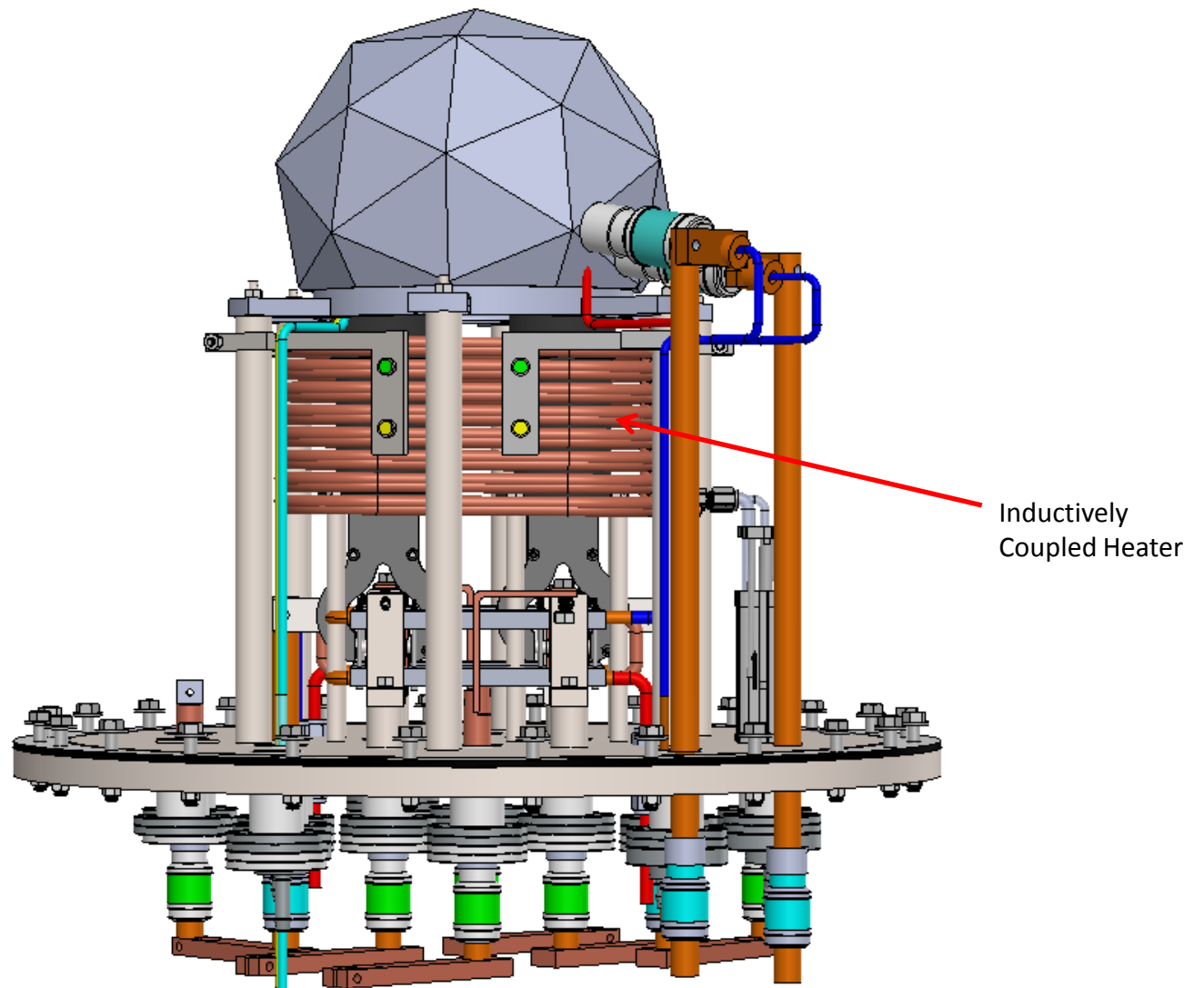
Engineering

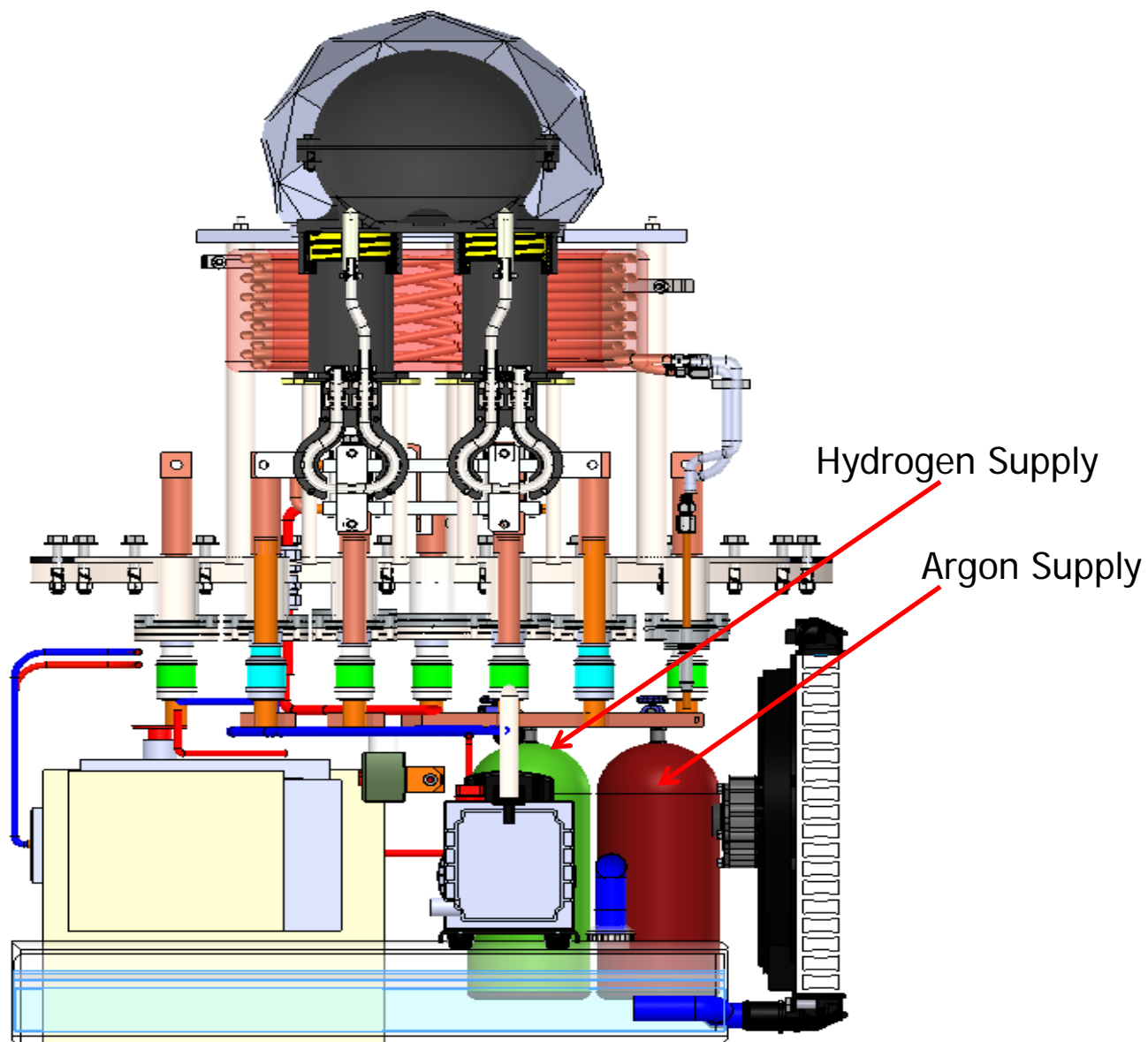
SunCell

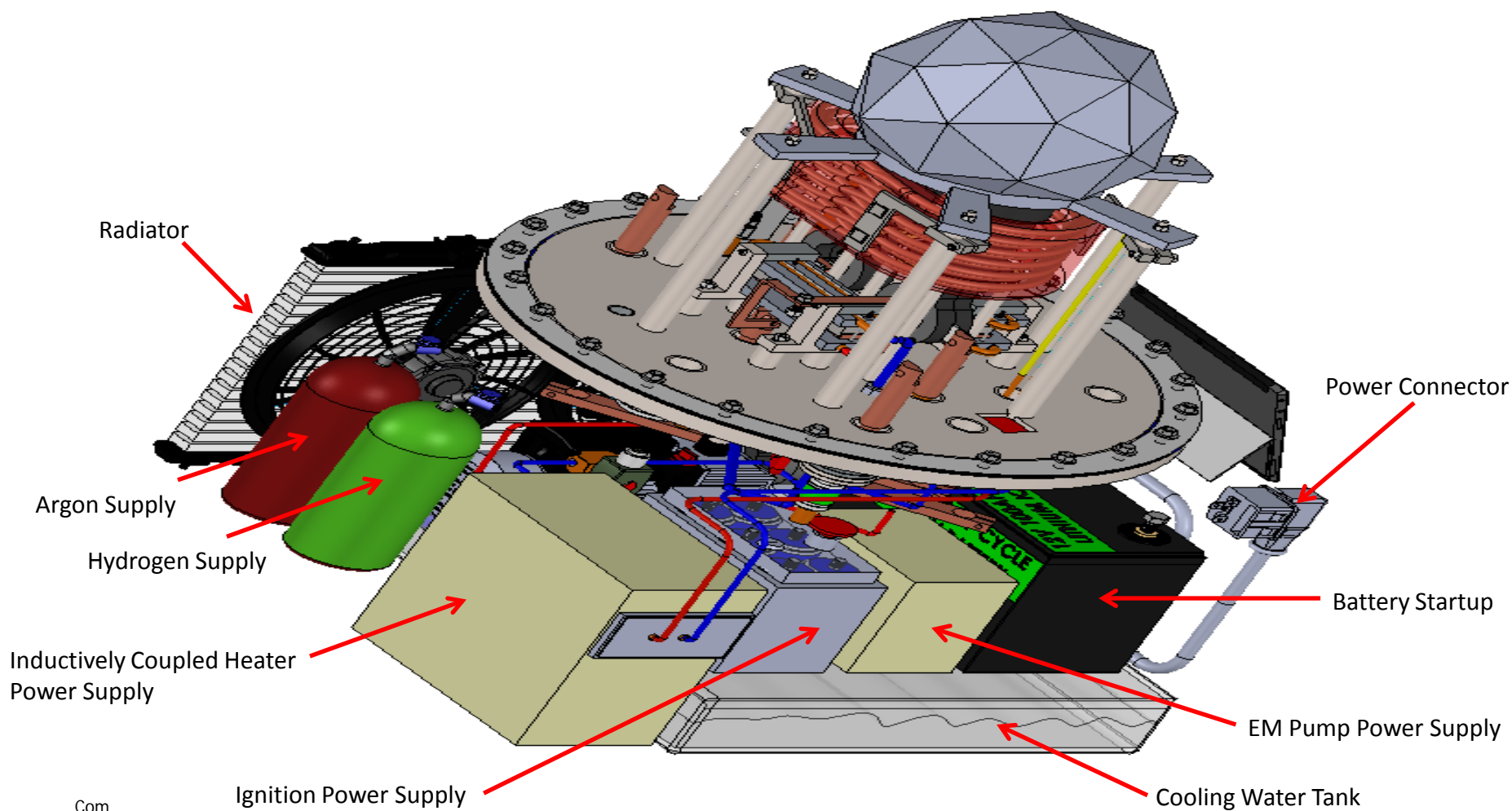












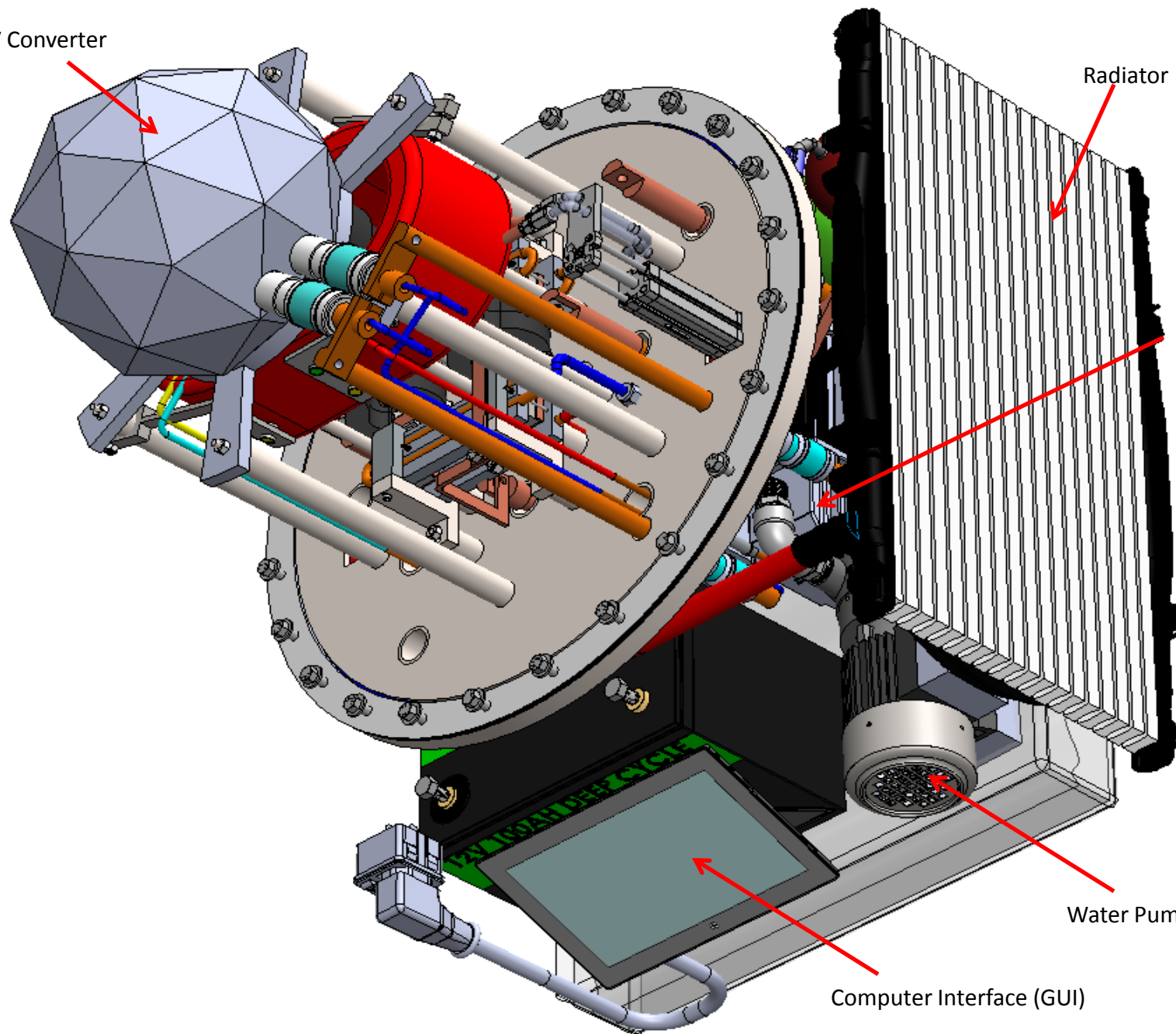
PV Converter

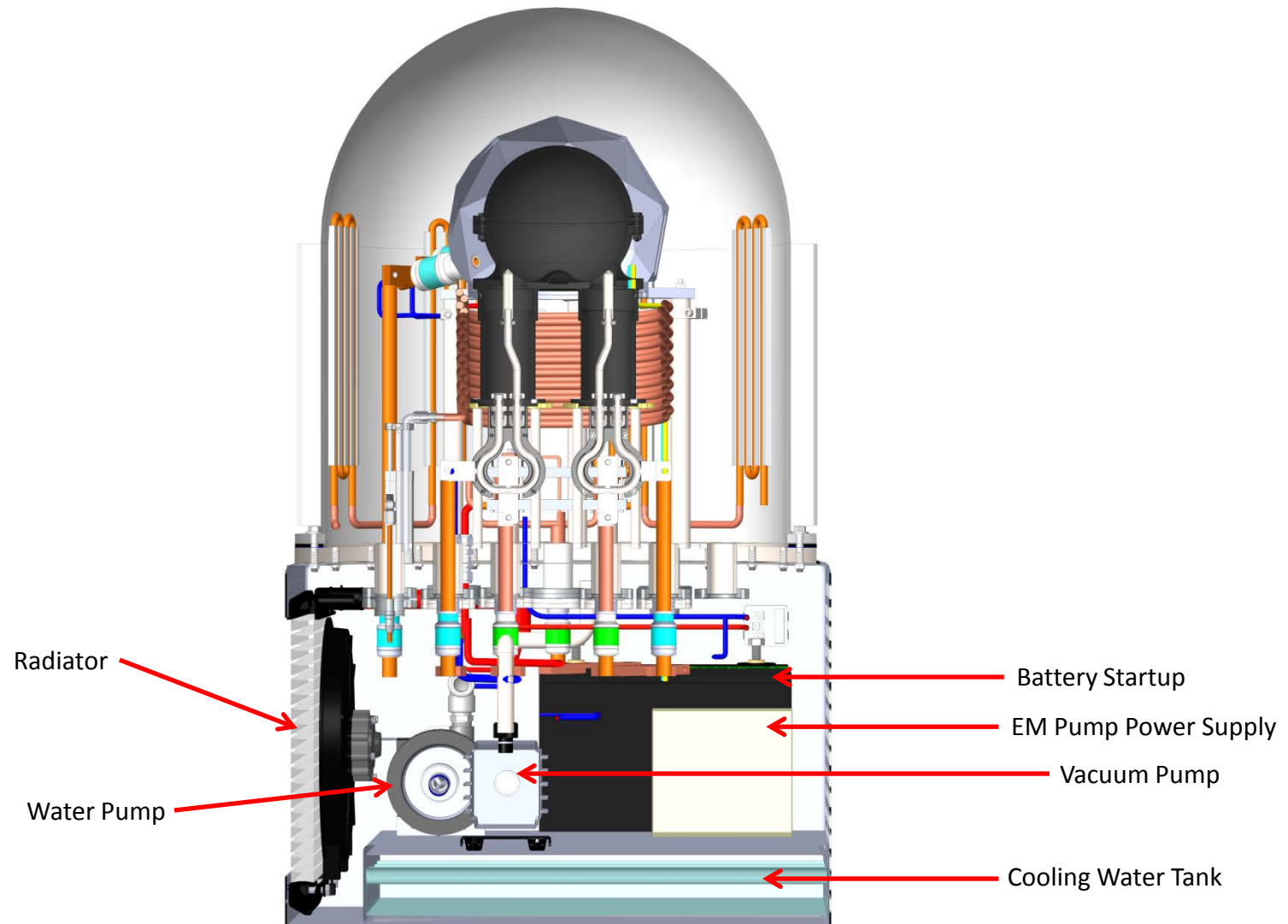
Radiator

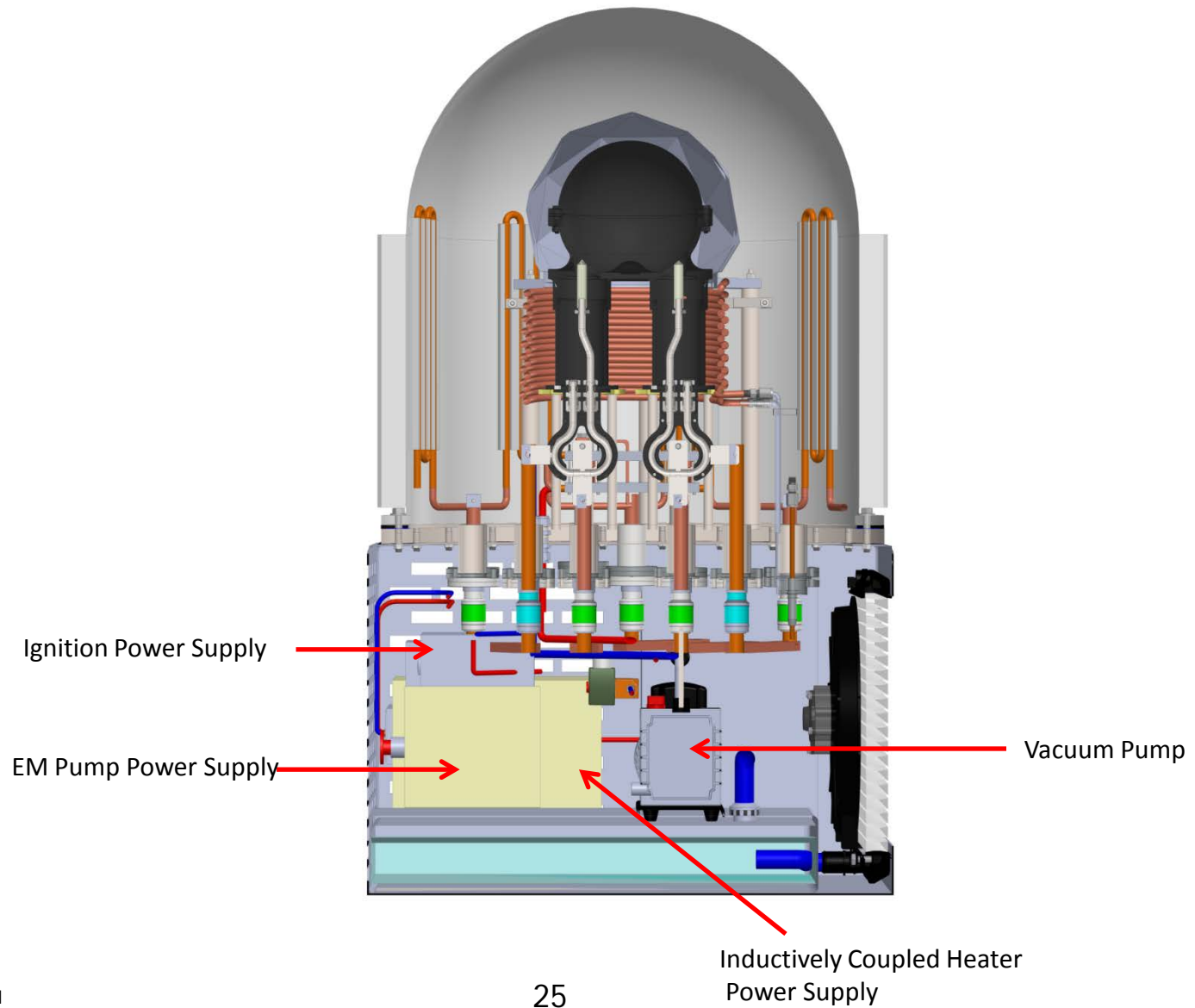
Vacuum Pump

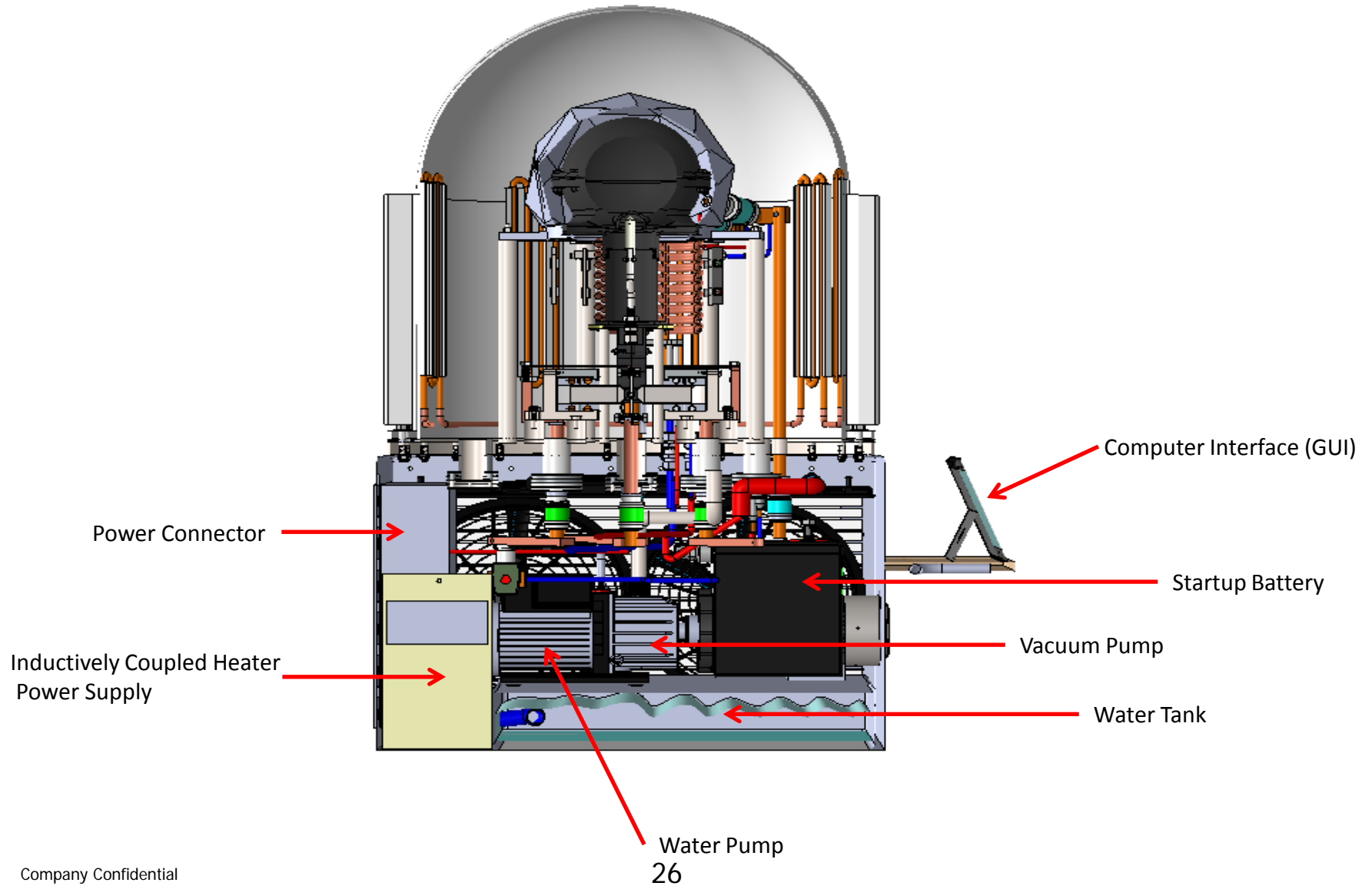
Water Pump

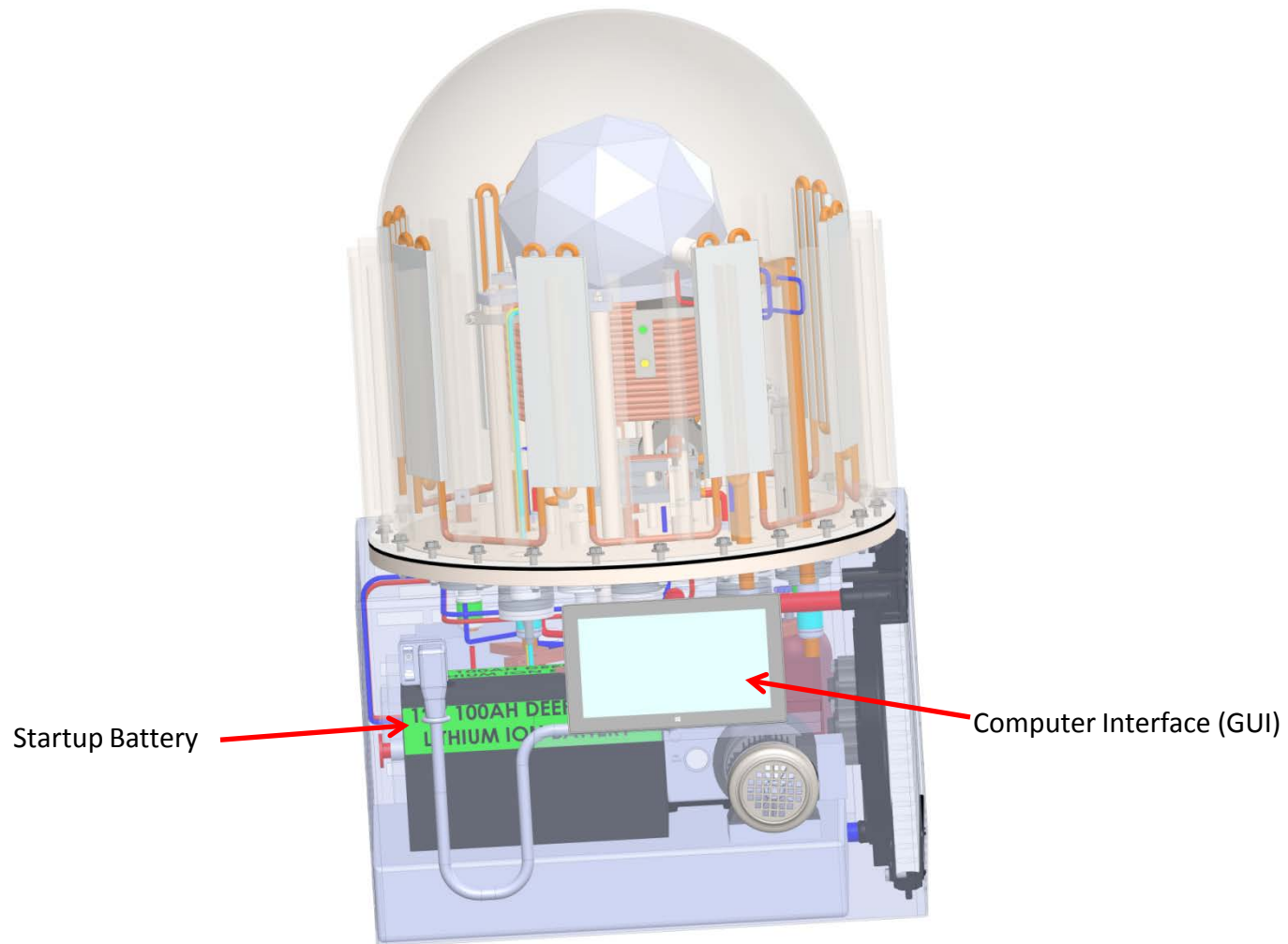
Computer Interface (GUI)

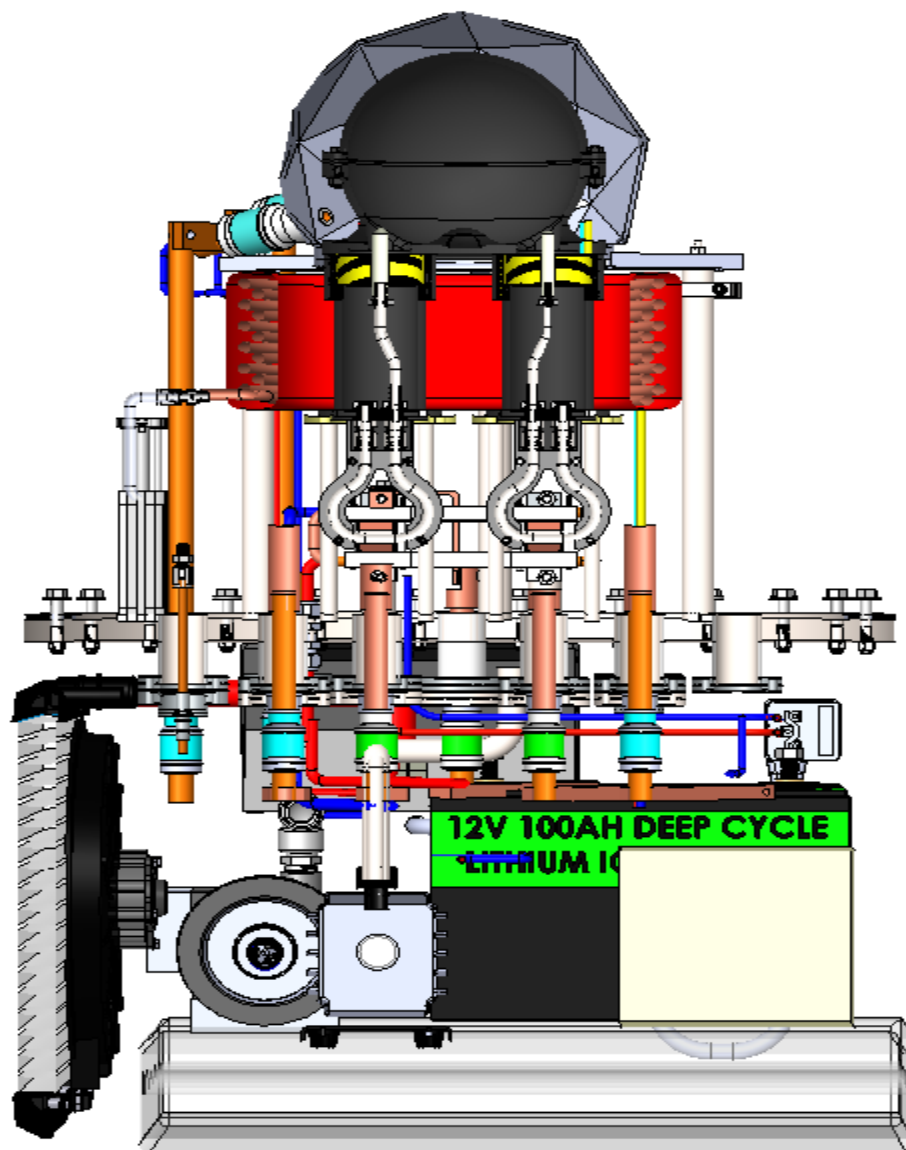


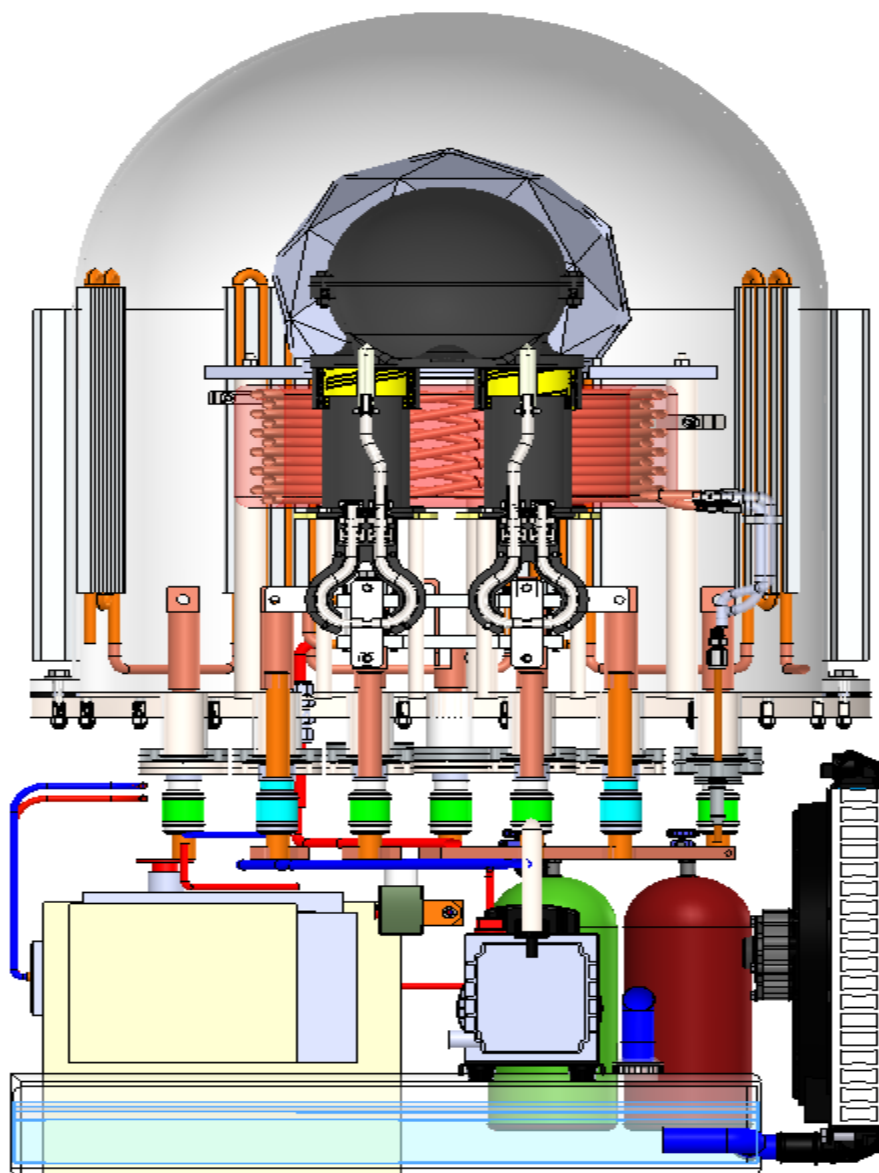


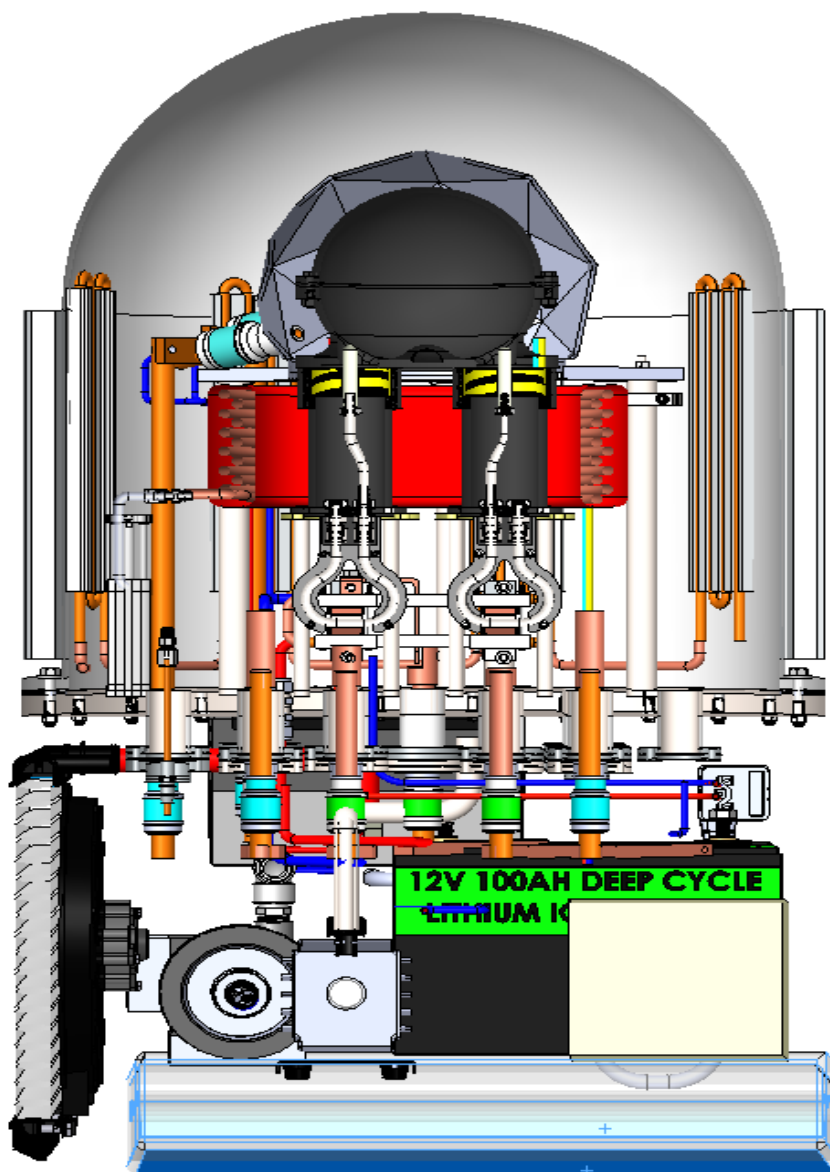


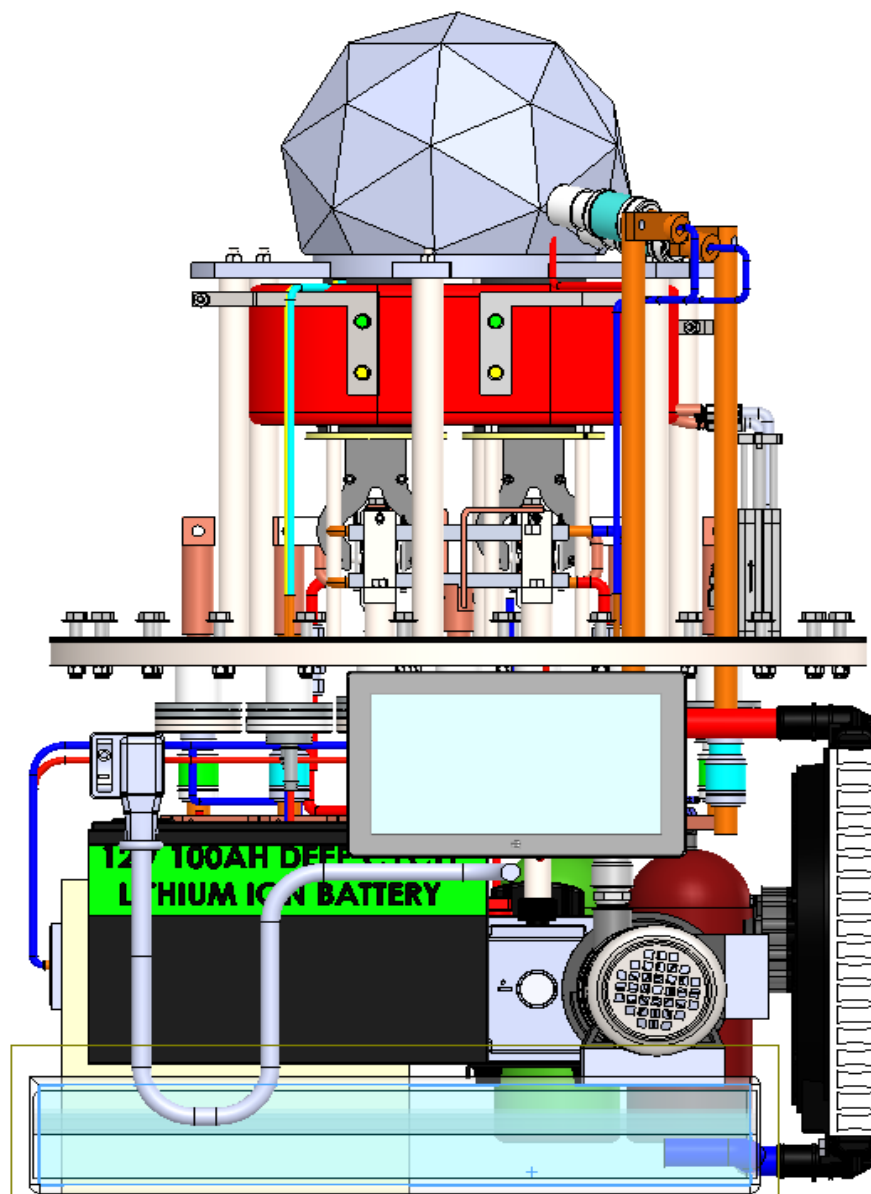


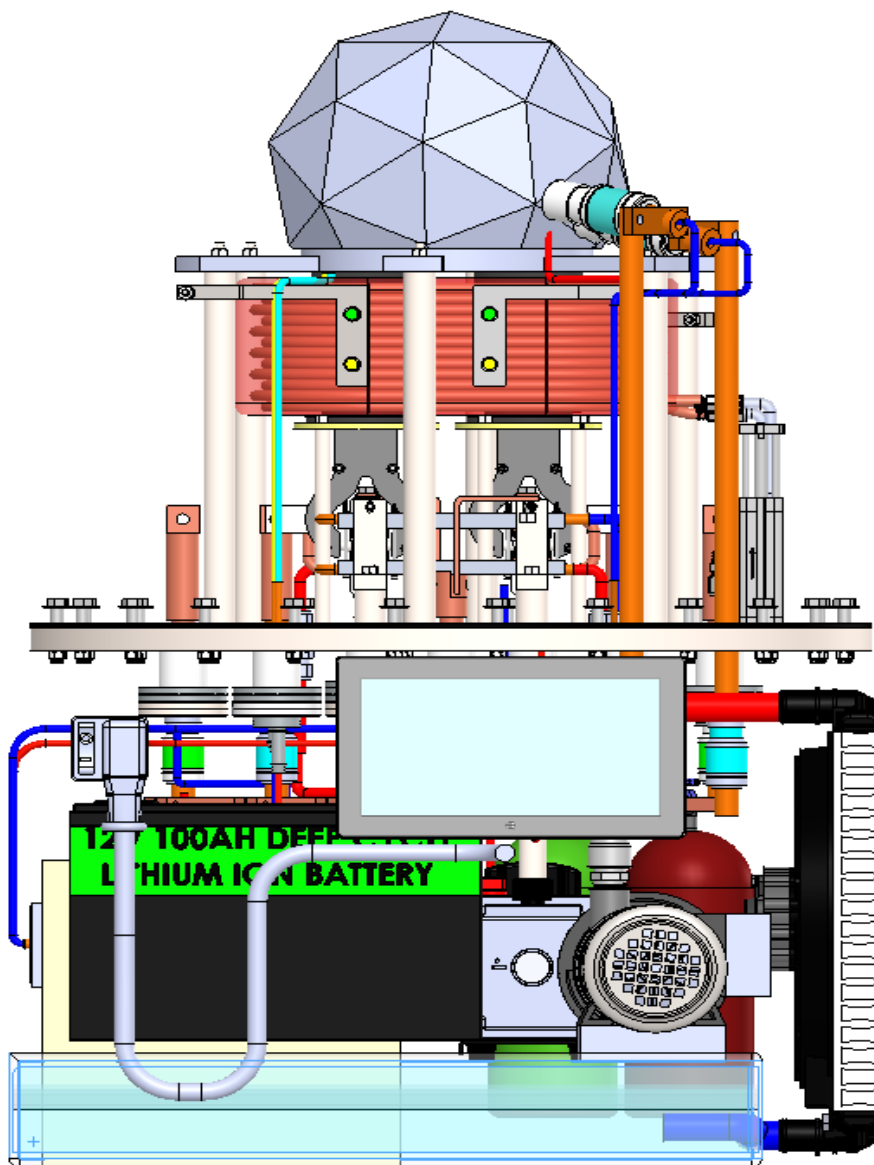


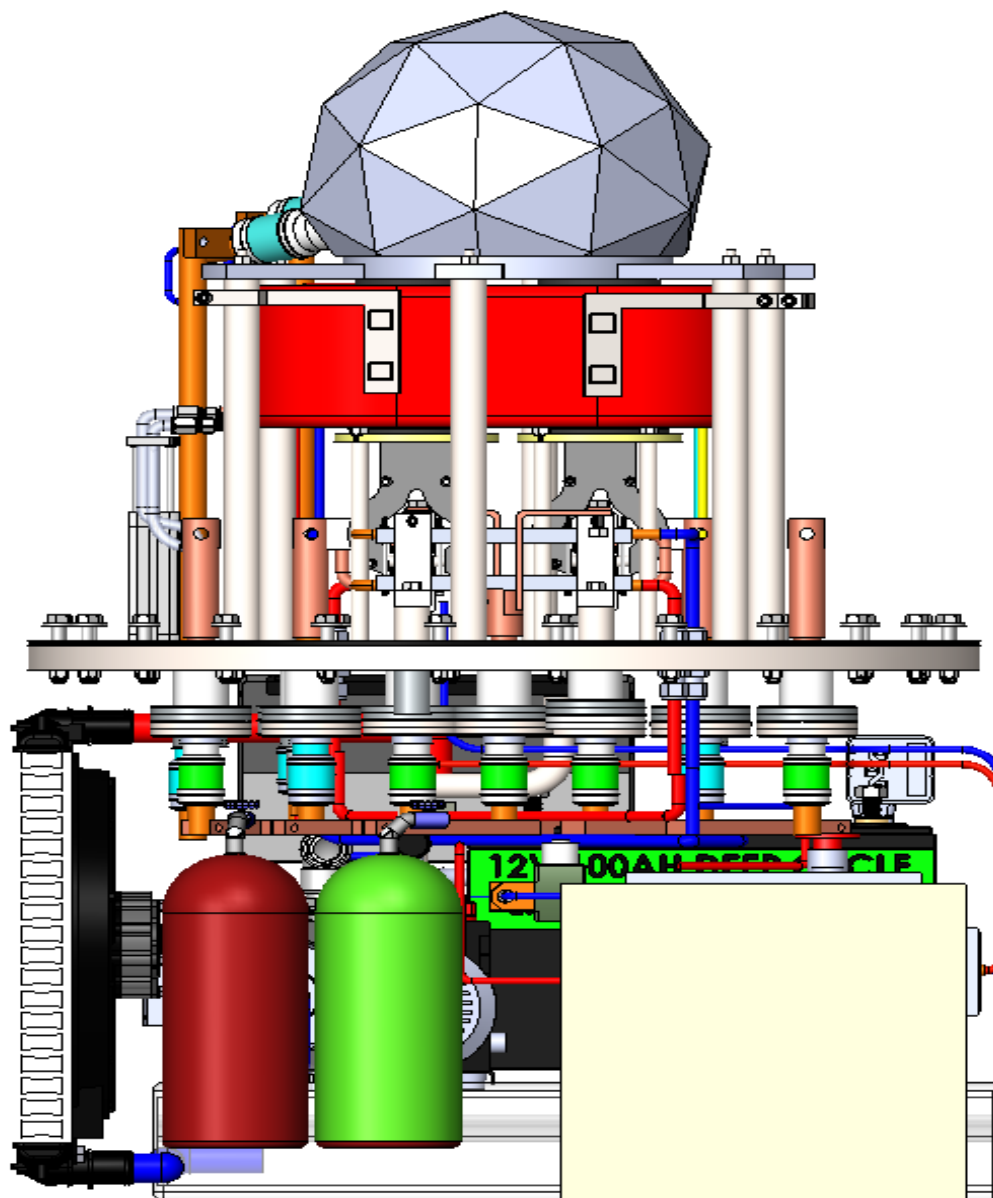


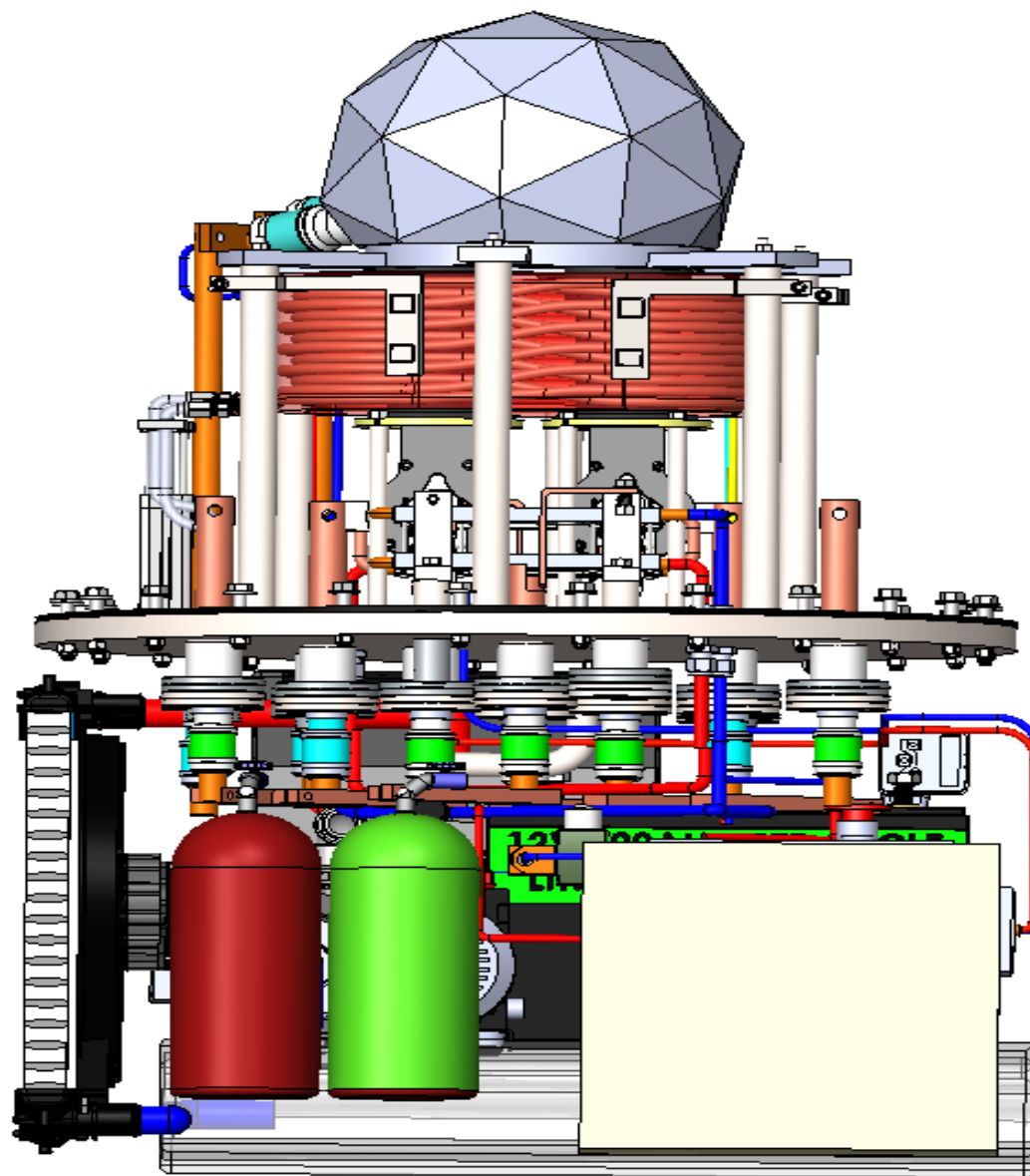


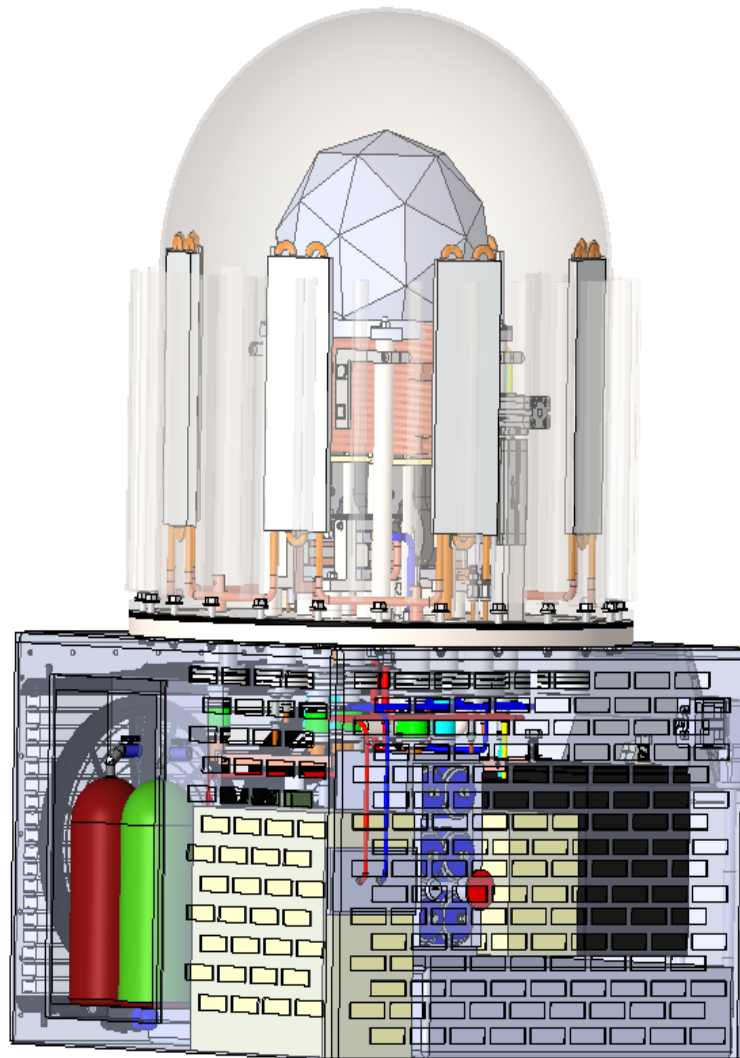


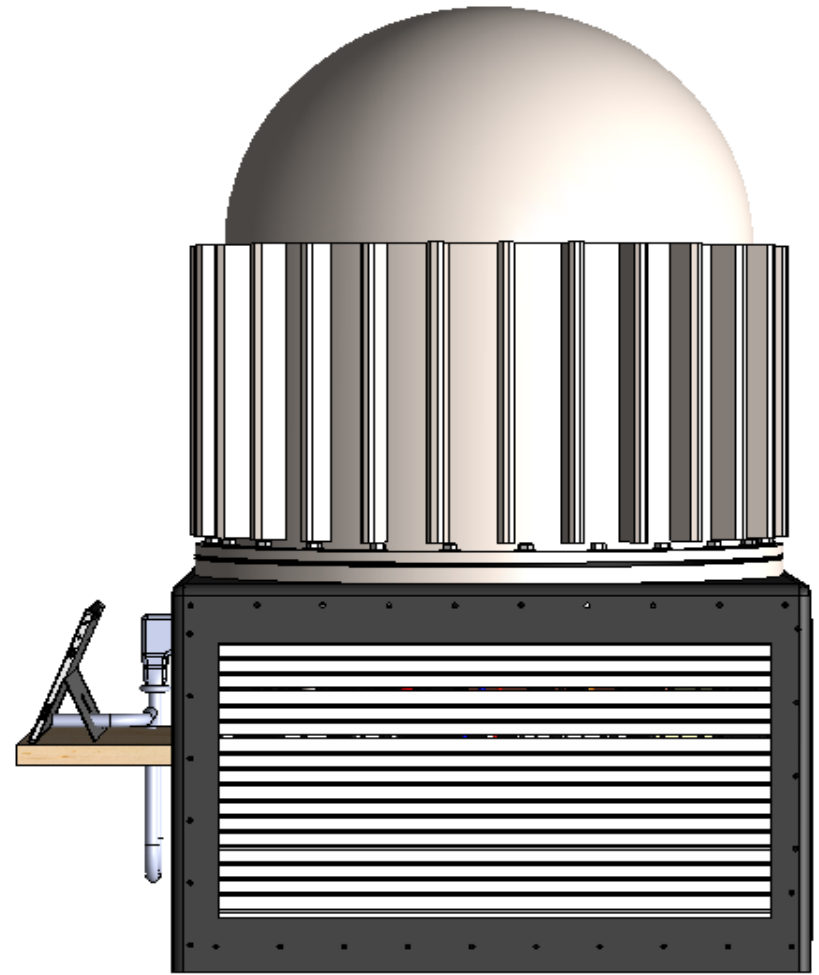
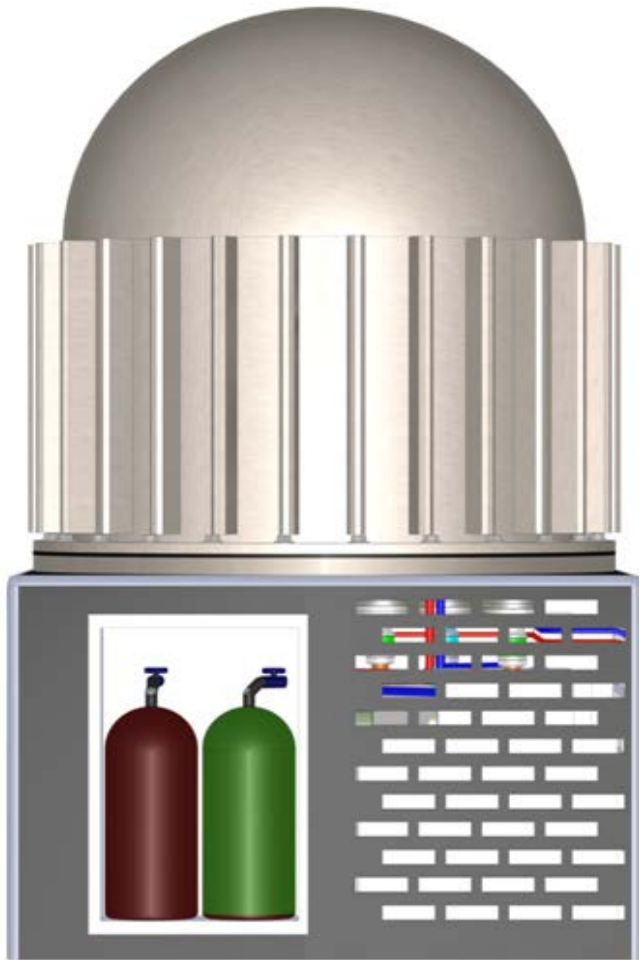


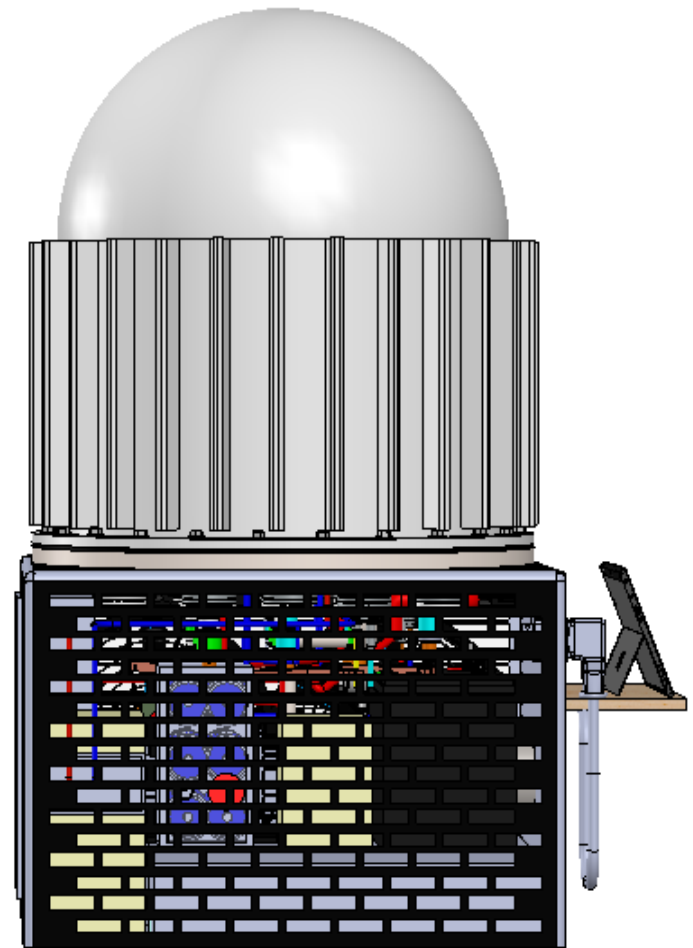










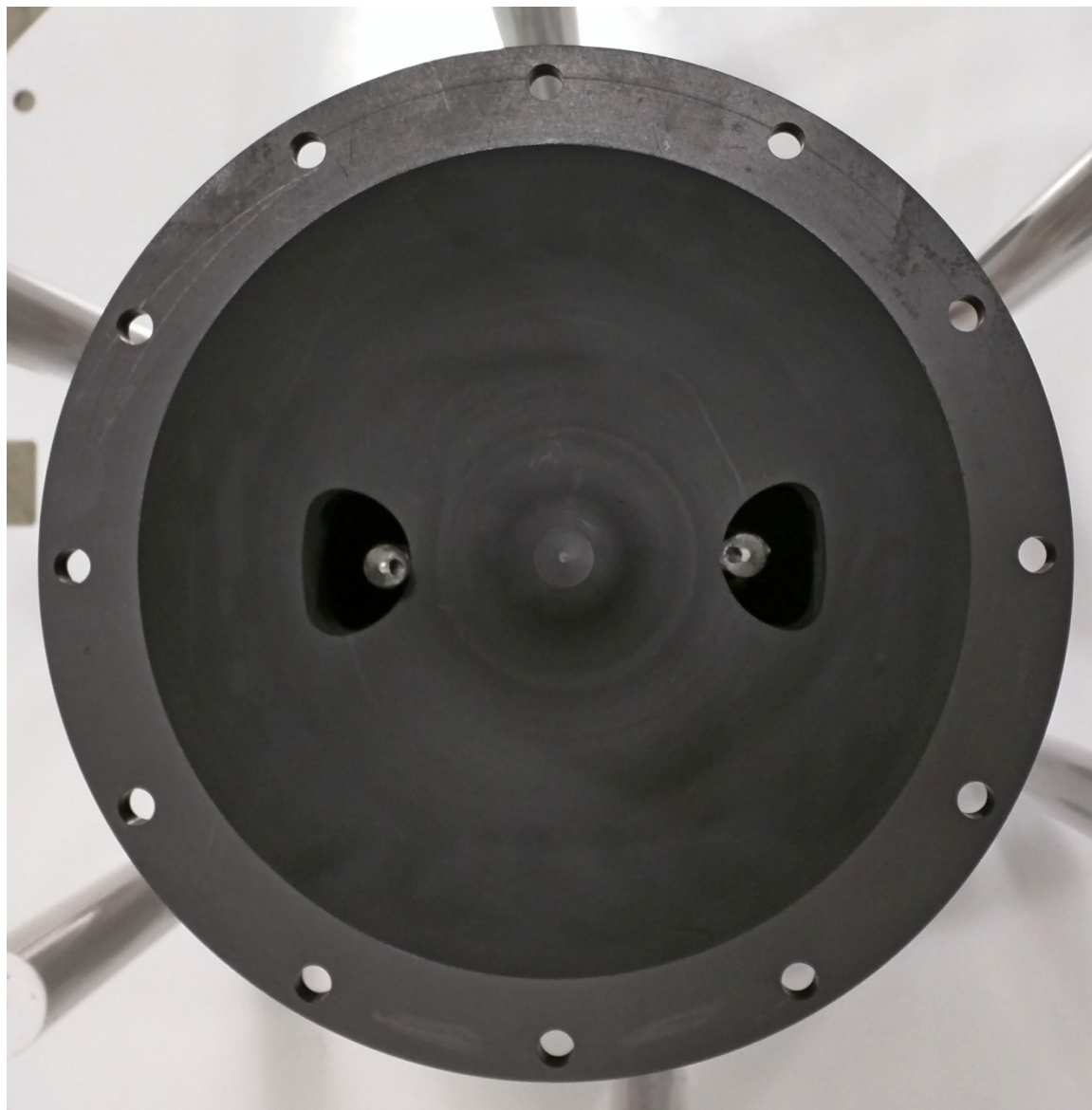


SunCell Commercial Prototype

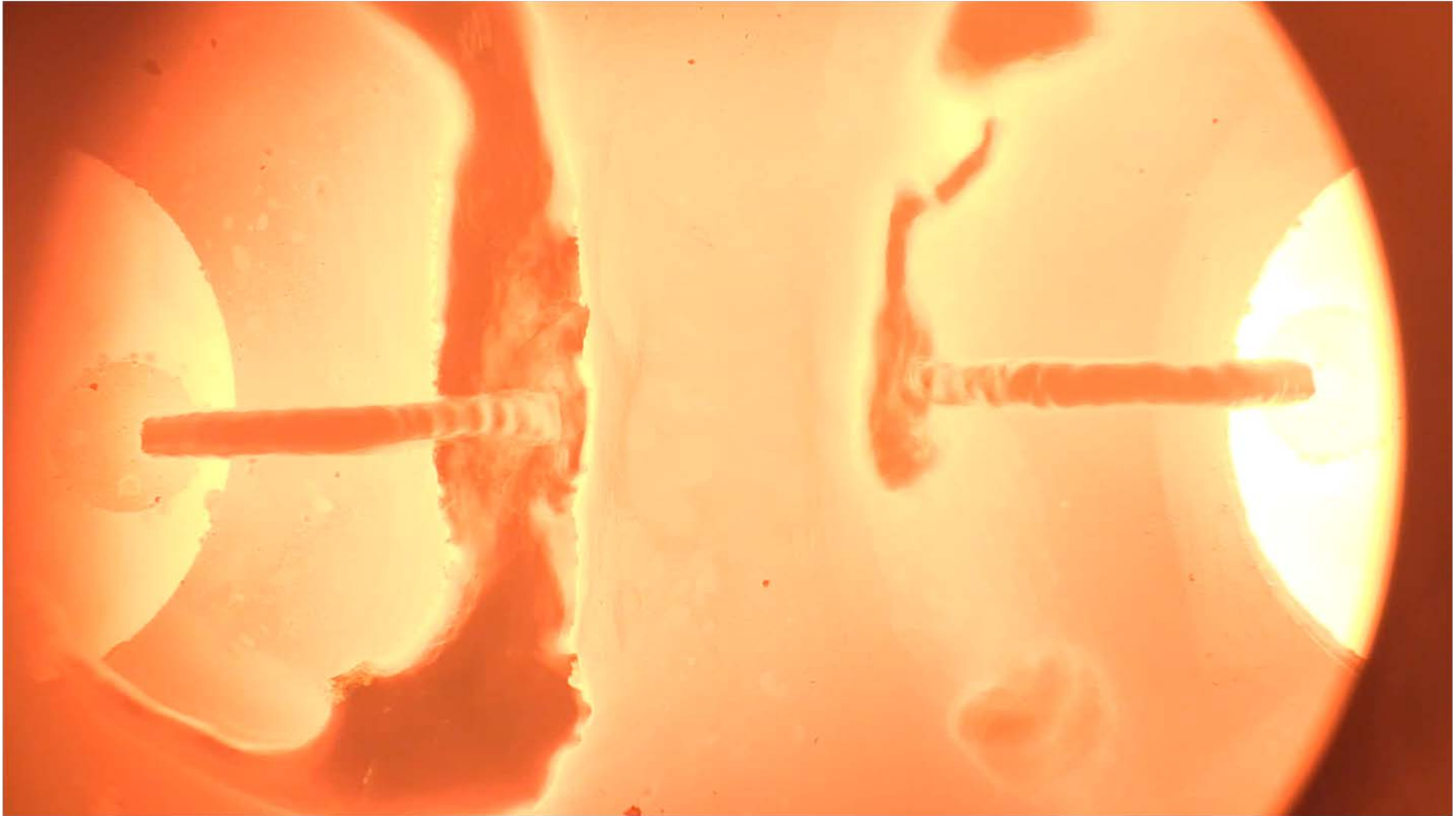


Commercial SunCell Design





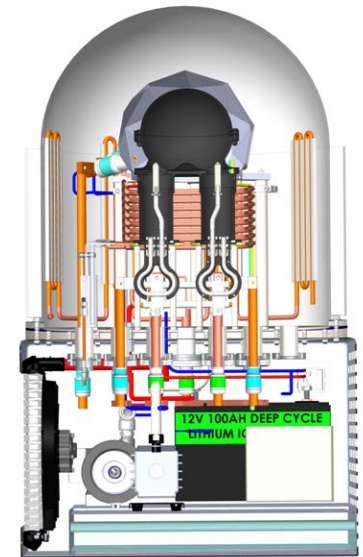
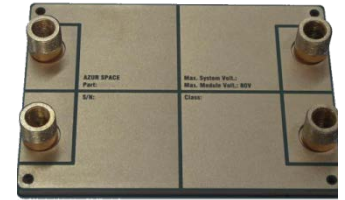
Commercial SunCell Test



Click the above image to view the video on YouTube:
<https://www.youtube.com/watch?v=jUBheBH9eio>

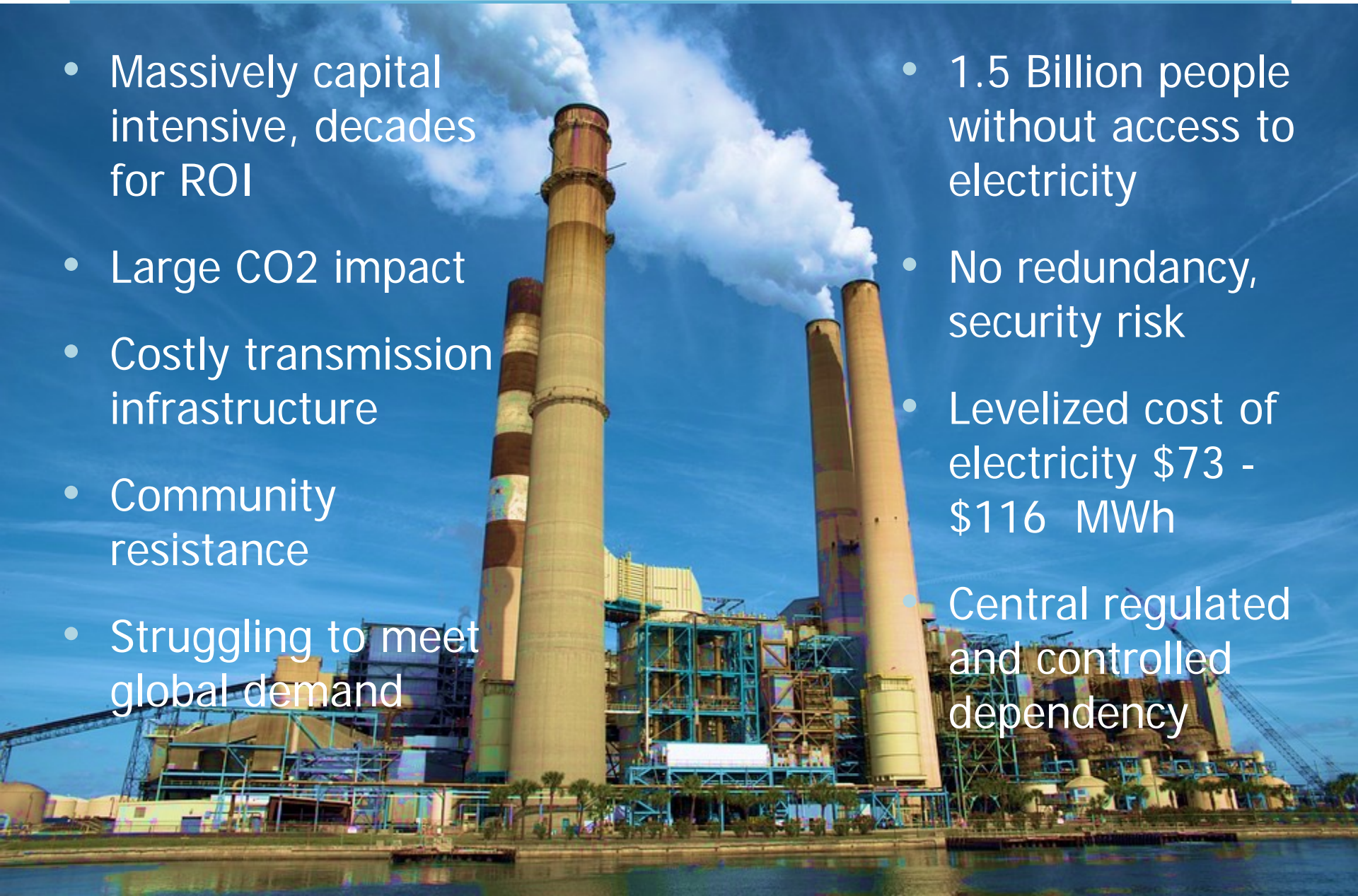
Product Development Path Forward

Development	Party	Timing
Closed system & sustained light source performance	BrLP	Q2 16
Production SunCell Design	Engr. Firm	Q2-Q4 16
CPV modified cell design & fabricate	Supplier	Q2-Q4 16
CPV integration to SunCell light source (blackbody)	Engr. Firm	Q4 16
Initial SunCell Test Units	Engr. Firm	1H 17
Manufacturing & Repair Readiness	Mfg Firm	1H 17
SunCell Production Field Deliveries	Mfg Firm	2H 17

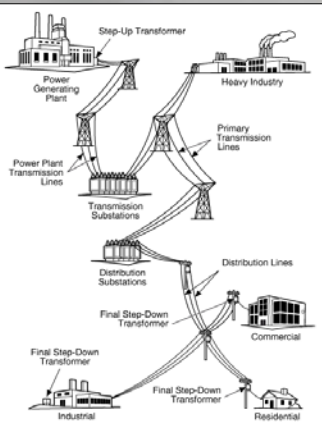


Centralized Electrical Power ... Since 1882

- Massively capital intensive, decades for ROI
- Large CO2 impact
- Costly transmission infrastructure
- Community resistance
- Struggling to meet global demand
- 1.5 Billion people without access to electricity
- No redundancy, security risk
- Levelized cost of electricity \$73 - \$116 MWh
- Central regulated and controlled dependency



Central Generation Transmission



Centralized
Dependence



Eyesore

Costly
Infrastructure

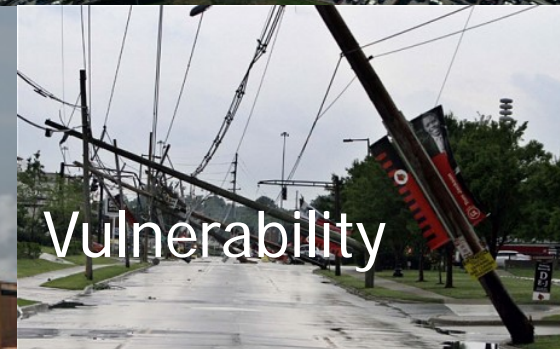
\$10 MWh
Transmission

\$28 MWh
Distribution

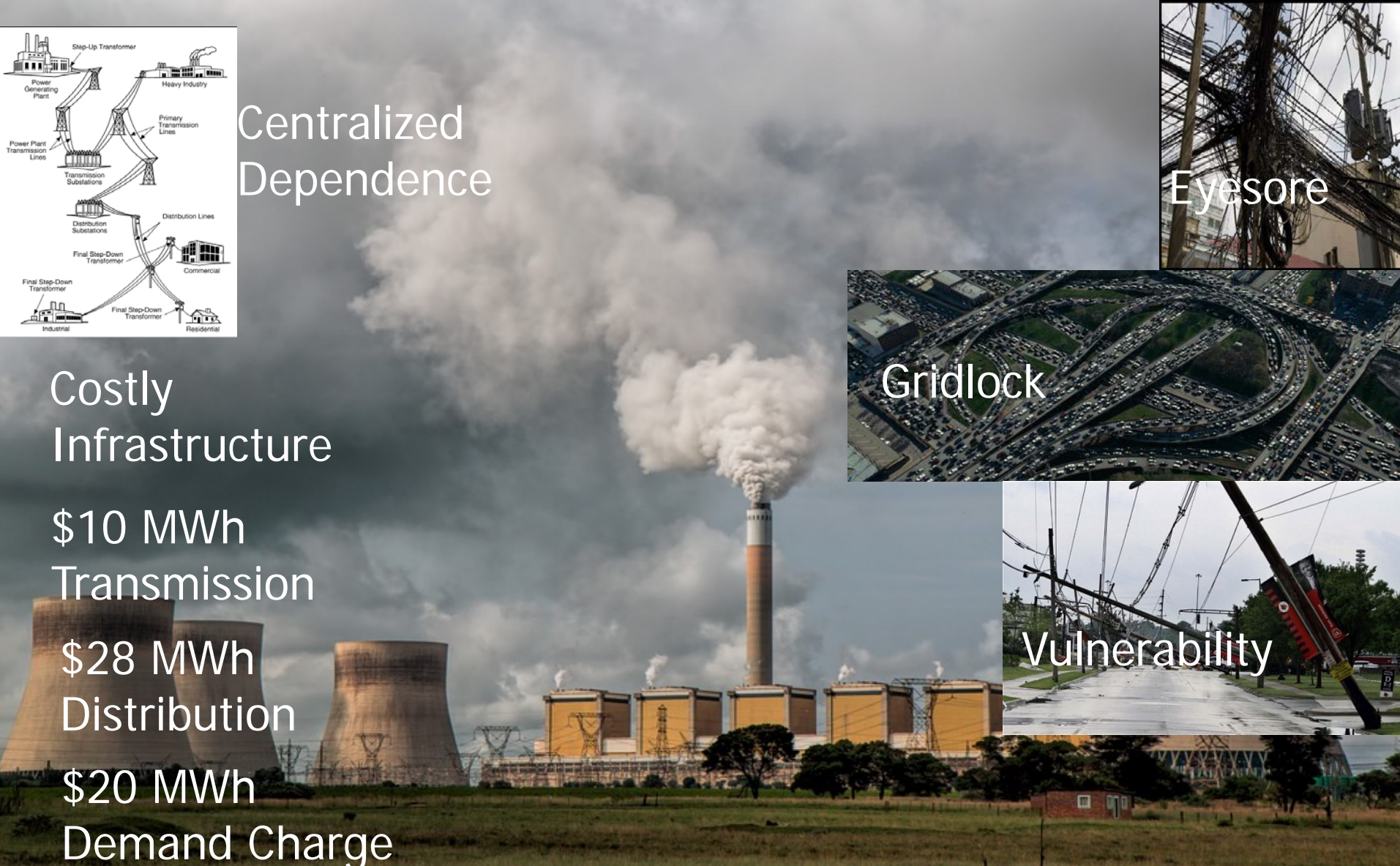
\$20 MWh
Demand Charge



Gridlock



Vulnerability



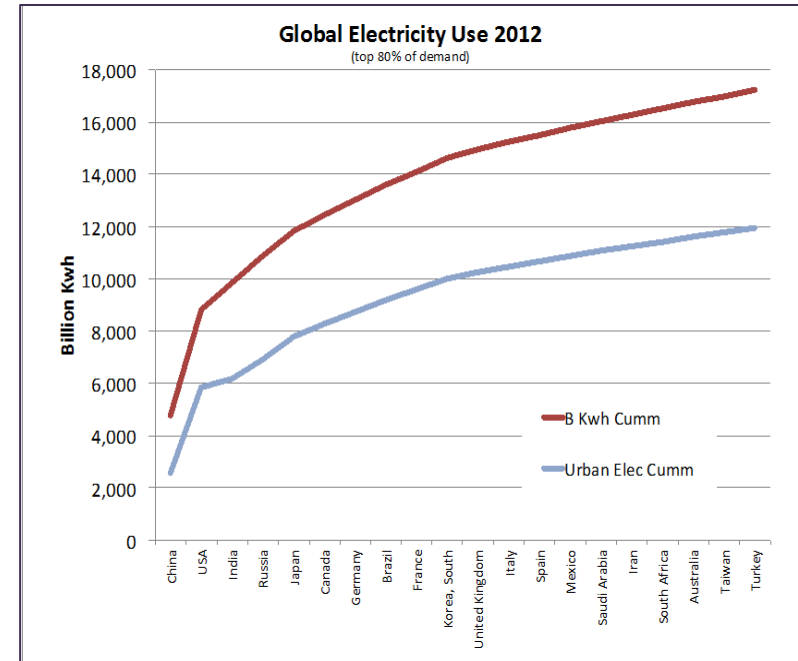
Global Established Accessible Market with Expansion Opportunities

- Reinvent electrification as autonomous, completely off grid, mass produced personal power.
- Flat per diem lease charge with no metering.
- Using cell redundancy being off grid is much cheaper than any grid connection and avoids all related utility regulatory leverage.
- Behind the meter during a short temporary learn out phase in the United States, then global push.



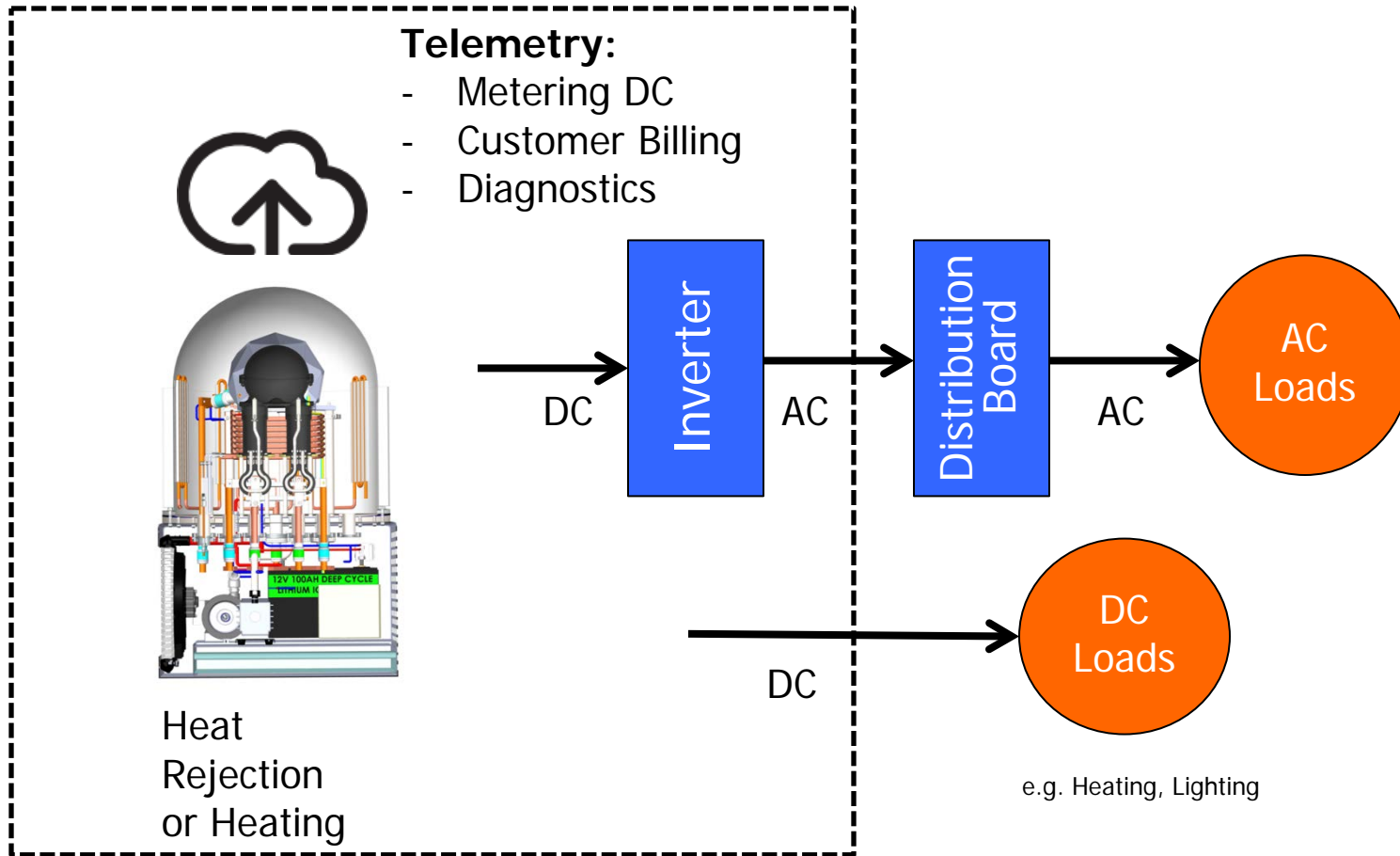
Global Established Accessible Market with Expansion Opportunities

- 69% of global electrical use in urban areas; power consumption mirrors country developmental status
- In the US, the cheapest grid distribution being the local urban grid connection fees of \$0.01-0.02 / kWh are at least ten times the cost of redundant off-grid SunCells
- Off grid deployment avoids transmission, distribution, and demand fees and regulations
- Redundant SunCells satisfies peak demand and service interruption due to breakdown
- Model can be proliferated worldwide urban to rural immediately; no grid or fuels infrastructure required; developed to developing countries (necessity and pollution abatement are also drivers)

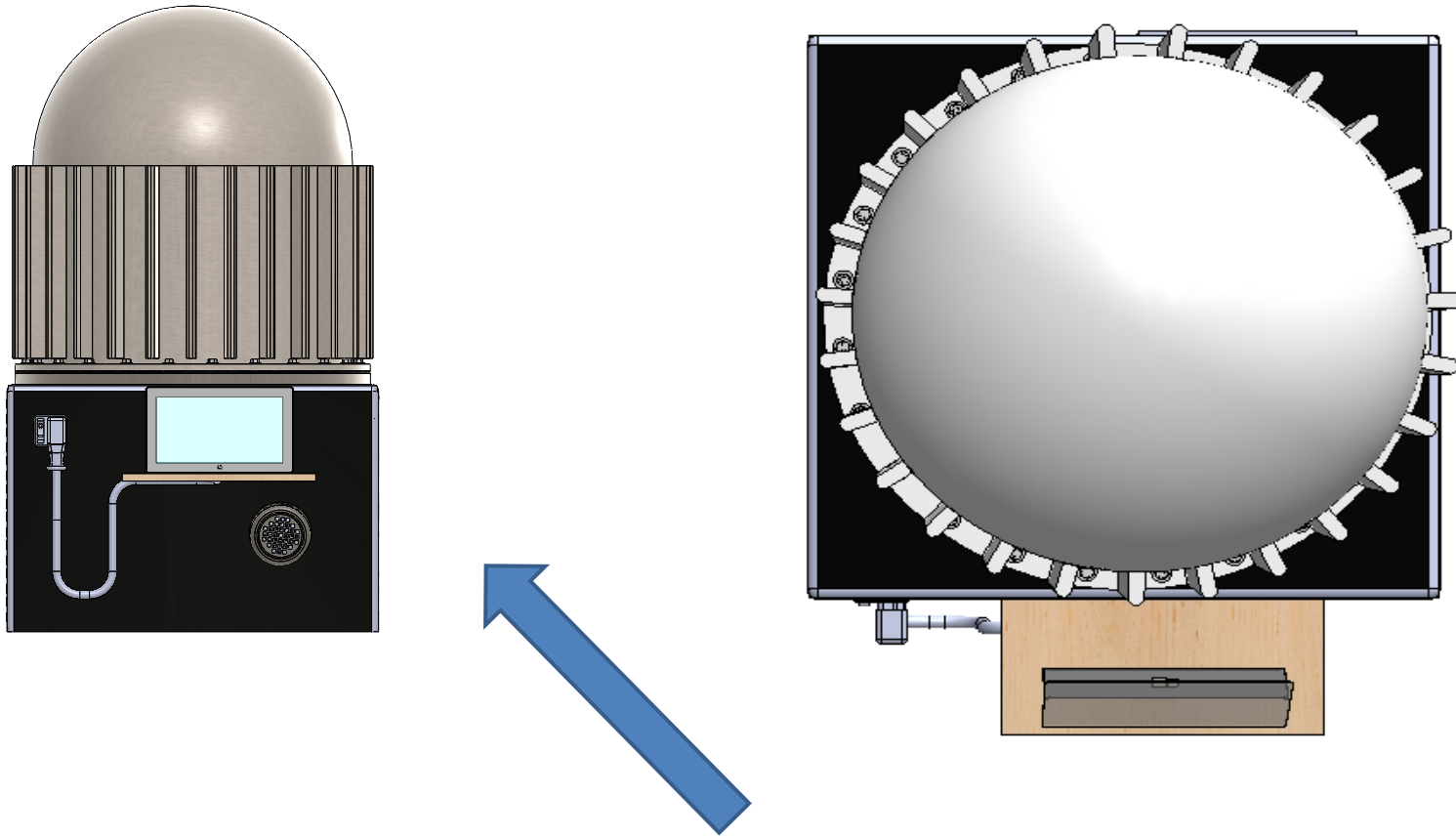


Chicago at Night

SunCell Turnkey System (Basic)



250KW SUNCELL SURFACE AREA

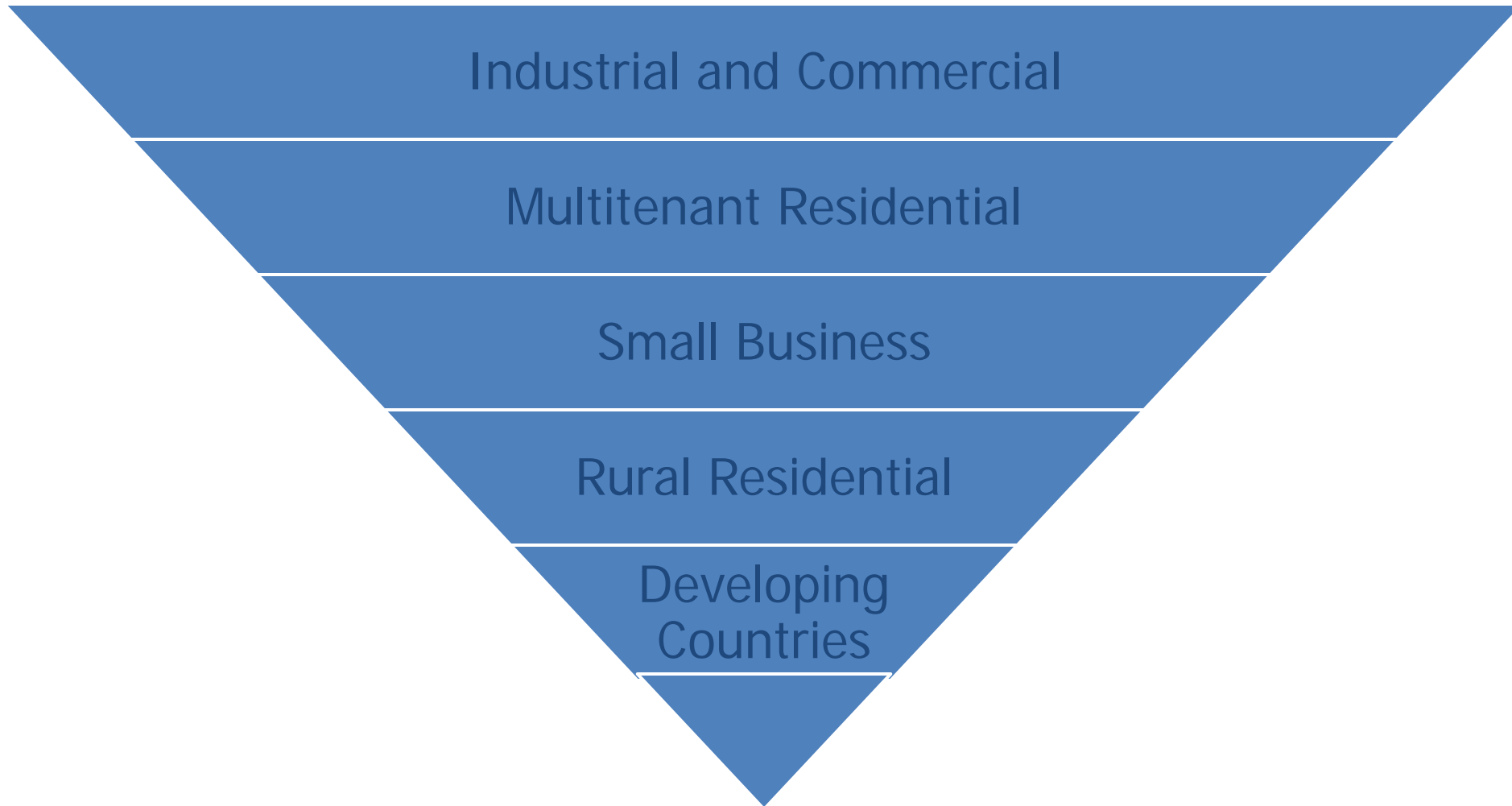


SURFACE AREA = 27" X 27" = 729 SQ.IN

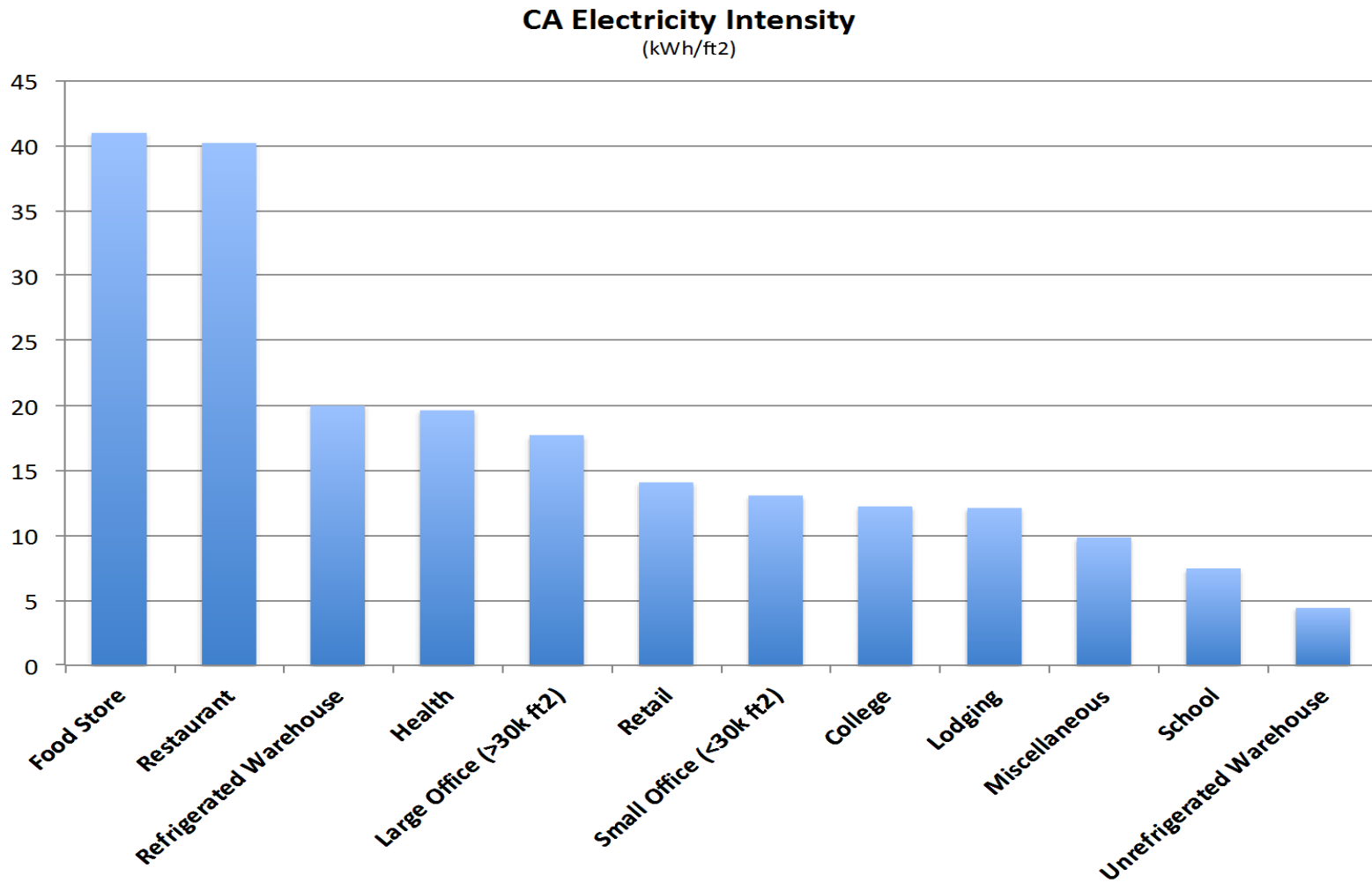
Feature	Est.
Power Output	10 kW, 100 kW, 250 kW DC or AC
DC Voltage	~380 or ~760
AC Inverter for 50/60 Hz	Option
SunCell dimensions (L,W, H)	0.5x0.5x0.5m
Photovoltaic Power Density	2000 Suns
Blackbody Radiator Power Density	10 MW/m ²
Weight	100 kg
Warm-up Time	<1 min
Self-consumption power	<3 kW
Response 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)	

Stationary Market Launch

Highest Power Density to Lowest



Commercial Customers



Several Attractive Segments for Initial SunCell Deployment

Stationary Market Launch cont'd

- Baseload
- Initially SunCells behind the meter, retain grid connection; switch to off grid following learn out and reliability demonstration

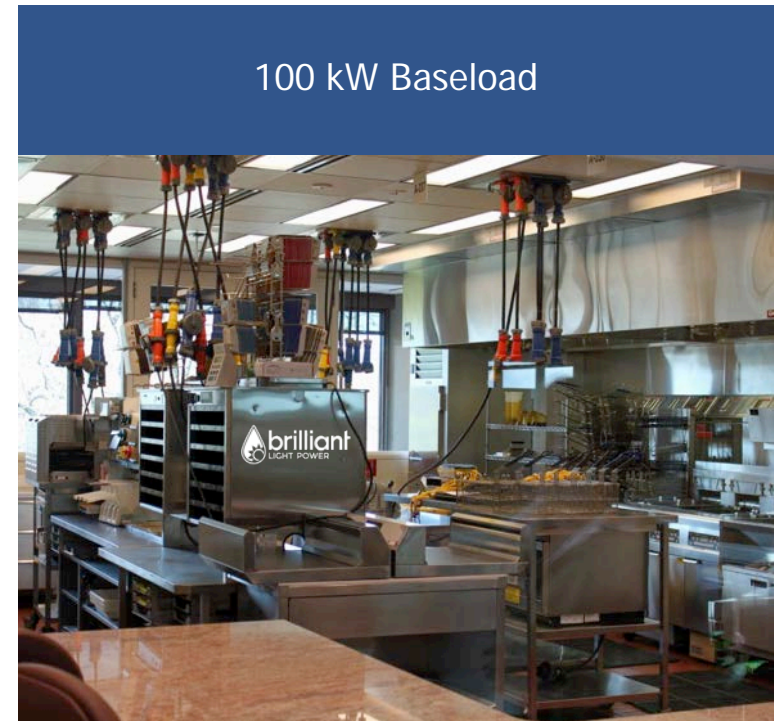
SunCells:

Initial Power:

- Gen 1: 10 kW
- Gen 2: 100-250 kW

Heating:

- Since 34% of the global energy demand is buildings, for mostly heating $<100\text{ }^{\circ}\text{C}$, rejected heat may be sold as well.



Quick Serve Restaurants (QSR) Power Lease Agreement Benefits

Quick Service Restaurant




- Electricity is high cost driver; annually 30-50 kWh / sft
- \$0.12 to \$0.20 per kWh
- BrLP SunCell 50% savings
- Lease at \$0.05 per kWh (DC)
- Upfront install fee with payback <90 days
- MOU to purchase at least 10MWh of continuous power (individual units with nameplate capacity of 100-200kW)
- Proceed only when satisfied with product and reliability

Brilliant Light Power

- BrLP manages technology and partners, end users very limited risk
- QSR customer base is ideally suited for initial products of 100-200kW power
- Repetitive installations
- End user feedback during upcoming design phase

QSR Gains Clean, Cheap Energy; BrLP Gains Scalable Customer Base

Stationary Market Launch cont'd

% Global Electricity	51%	12%	18%
			
	Industrial	Commercial	Residential

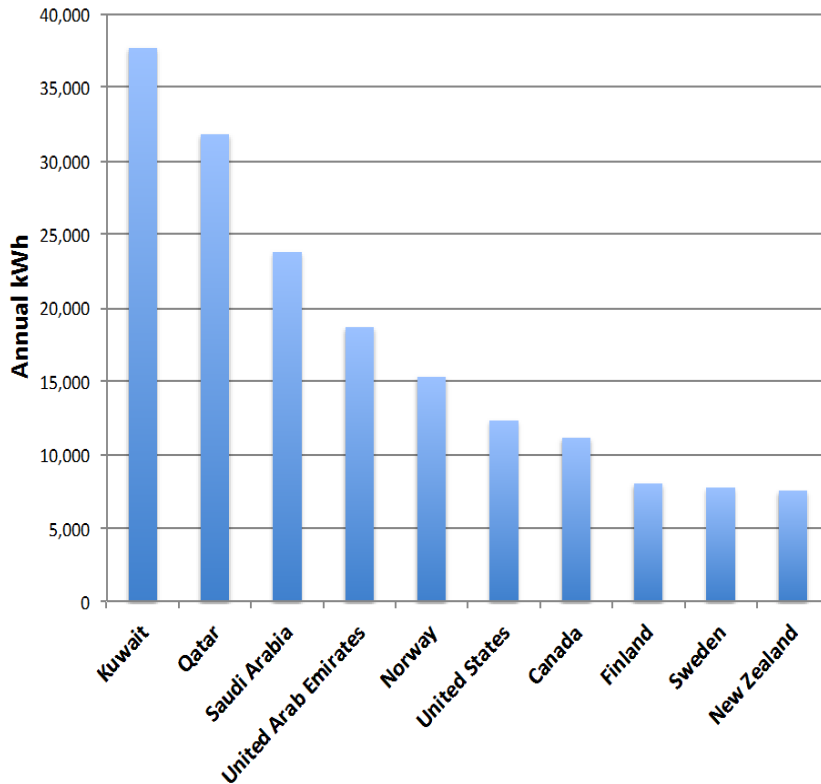
- DER (Distributed Energy Resource)
 - Multi SunCells off grid
 - No metering, only per diem lease fee based on capacity to suit historic and anticipated maximum load at peak
 - Ganged/Networked SunCell DERs within a large building, complex of buildings, or industrial or commercial site; interconnected by low voltage private grid.
 - Provide capacity, demand response
 - Redundancy, avoid disruption
 - Flexible ramping, smart controls to smooth peaking

SunCells:

- Core Power:
 - Paralleled systems: 250kW-2MW

Residential Markets

Global Household Electricity



US Household Electricity

- Product: 10kW SunCell
- 128M US residential households
- Average electricity use
 - 12,300 kWh / year
 - 12.5 cents per kWh
 - \$1,369 / year
- US residential market \$176B
- Segmentation:
 - Top 1% use 4X average
 - Top 10% use 2X average
 - Florida 40% above national avg.
 - Texas 26% above national avg.

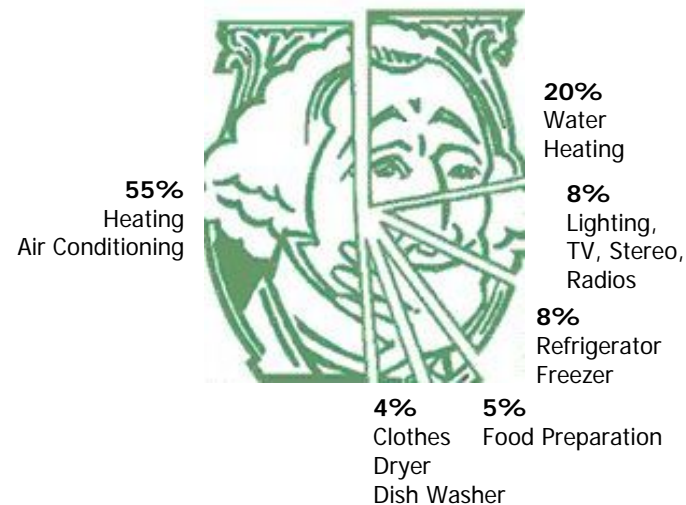
3M+ High End US Customers for Initial Residential SunCell

Current Smart Appliance Controls Can Smooth Peaking

- Lighting
- Thermostat
- Smoke Detector
- Video Monitors
- Garage Doors
- Air Conditioning
- Locks
- Washer and Dryer



Heating, Air Conditioning & Water Heating is 75% of home demand



Wireless Communications Disruption as Off-Grid Model for SunCell

Landlines



- 1877 First commercial telephone service
- 2006 Peaks at 1.3B users, 19% of population
- 2014 Users drop to 1.0B

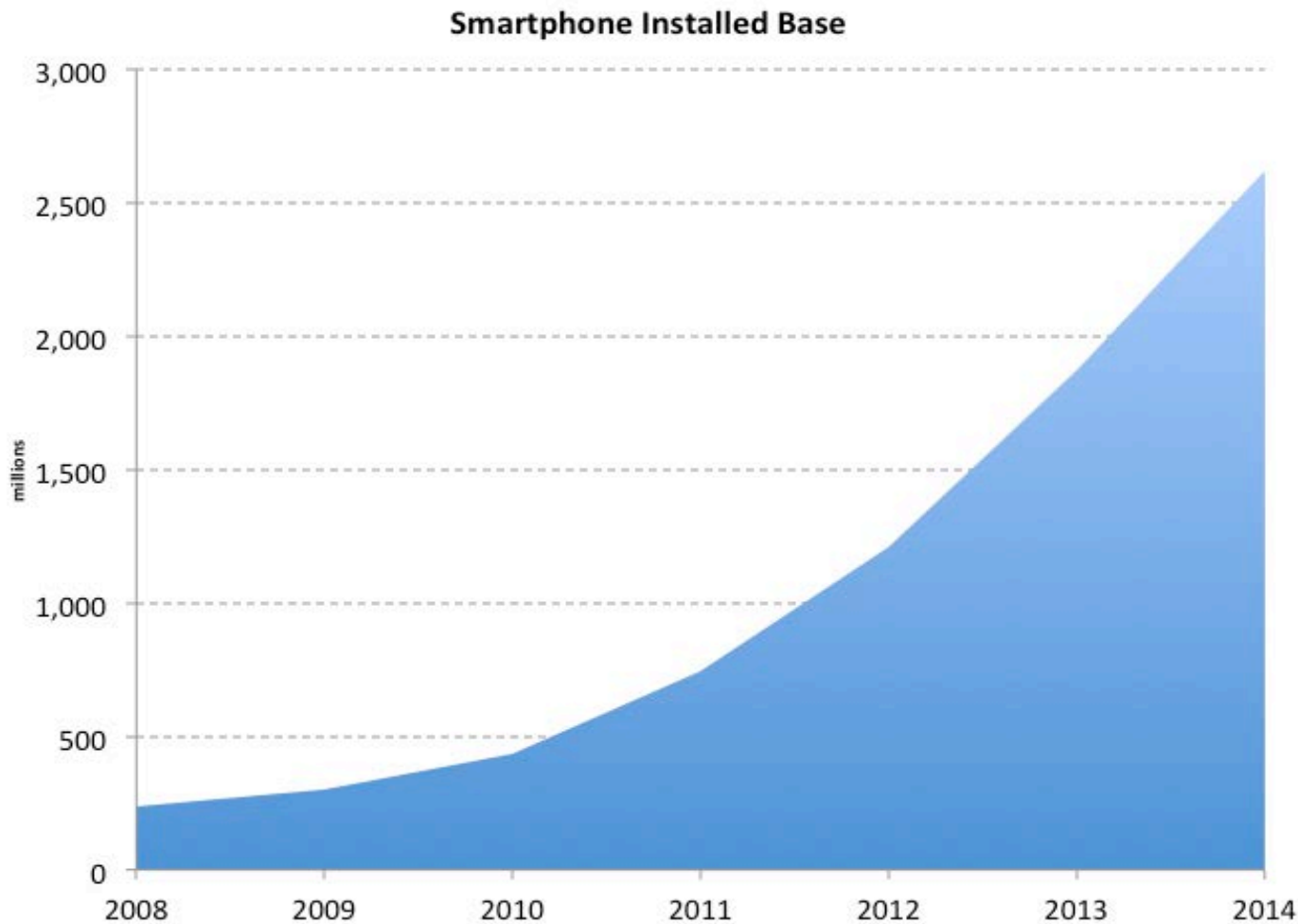
Mobile



- 1979 First cellular service
- 2002 Mobile > Landlines
- 2014 5.2B Unique users, 73% of population

By 2002, mobile surpassed 125 year old Landline industry.
By 2014, mobile is \$1.1T business and 5X Landline users.

Wireless Smartphone Phone Growth as Off-Grid Model for SunCell



Apple iPhone
June 2007



Android Phone
Oct 2008

In just 6 years, installed base grows to 2.6B with 49% CAGR

Stationary Lease Economics

Stationary Examples

SunCell Rated Net Capacity DC (kW)	50% Capacity kW	Sample kWh Rate	Upfront Payment Range \$50-100/kW	Upfront Payment	Daily Lease Rate	SunCell Annual Lease Rate
10	5	\$0.05	\$100.00	\$1,000	\$6.00	\$2,190
150	75	\$0.05	\$75.00	\$11,250	\$90.00	\$32,850
250	125	\$0.05	\$50.00	\$12,500	\$150.00	\$54,750

SunCell Rated Net Capacity DC (kW)	Grid kWh Rate	100% Use of SunCell		Min 50% Use of SunCell	
		Customer Annual Savings	Upfront Fee Payback (Days)	Customer Annual Savings	Upfront Fee Payback (Days)
10	\$0.11	\$5,256	69	\$2,628	139
150	\$0.11	\$78,840	52	\$39,420	104
250	\$0.11	\$131,400	35	\$65,700	69

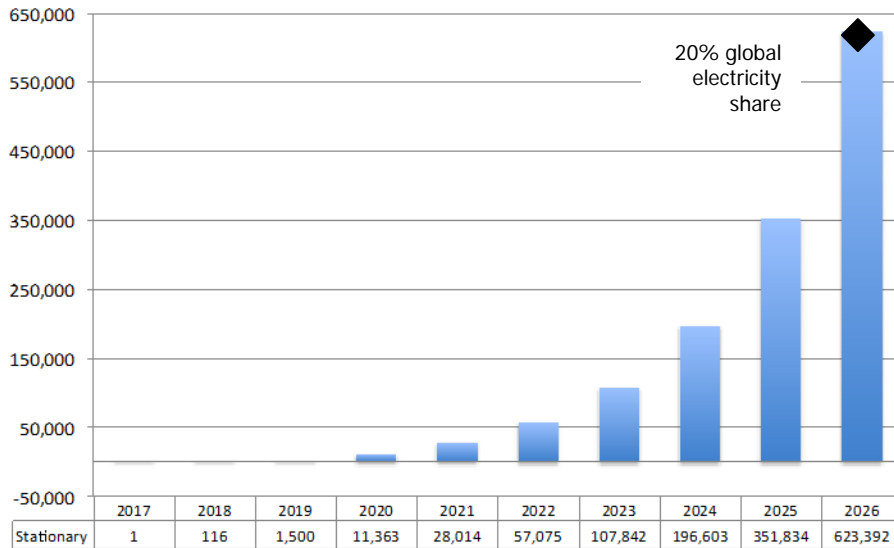
SunCell Rated Net Capacity DC (kW)	Optional AC Inverter Rate	Daily Lease Rate	Inverter Annual Lease Rate
10	\$0.01	\$2.40	\$876
150	\$0.01	\$36.00	\$13,140
250	\$0.01	\$60.00	\$21,900

SunCell ~150kW

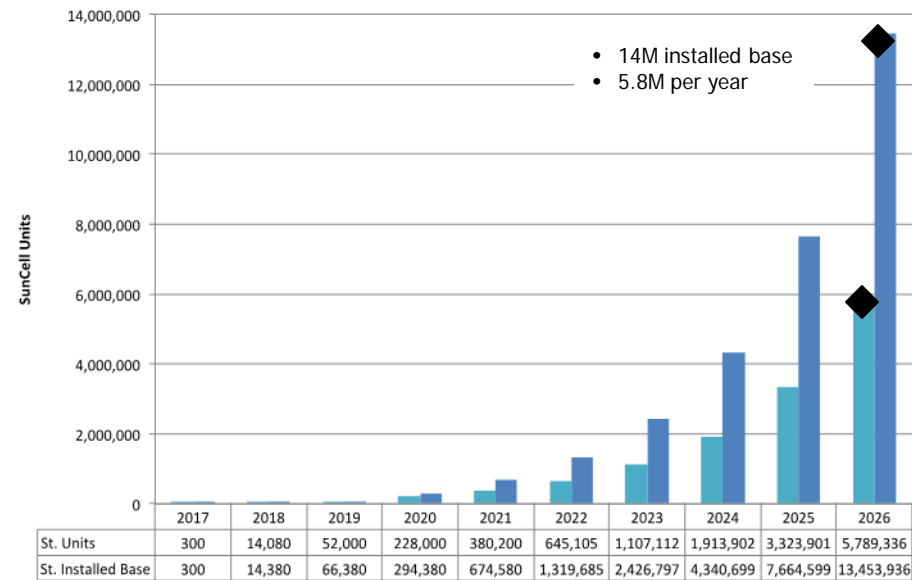
- Customer payback in <4 months!
- <50% of Electrical Grid Rate
- BrLP \$39K / year in revenue

Stationary Financials

Brilliant Light Power Sales - Stationary
(\$ million)



SunCell Stationary Units



- Phase 1 SunCell ~10kW

- Launch 2H 2017
- Target market high use residential, commercial, data center, food service
- Global placements in Canada, Mexico, US, Caribbean, etc.
- Install Fee = cost of SunCell + \$3,500 (initial test units).
- Customer upfront fee payback <100 days
- Lease rate corresponding to \$0.05 per kWh
- SunCell 50% utilization

- Phase 2 SunCell ~150kW

- Launch 2H 2018
- Target market large large commercial buildings plus mobile development
- Global rollout
- Install Fee = cost of SunCell + \$3,500.
- Customer upfront fee payback <60 days
- Lease rate corresponding to \$0.05 per kWh
- SunCell 50% Utilization

The World Currently Runs on Oil



Oil is dangerous



Oil is toxic



Oil is climate change



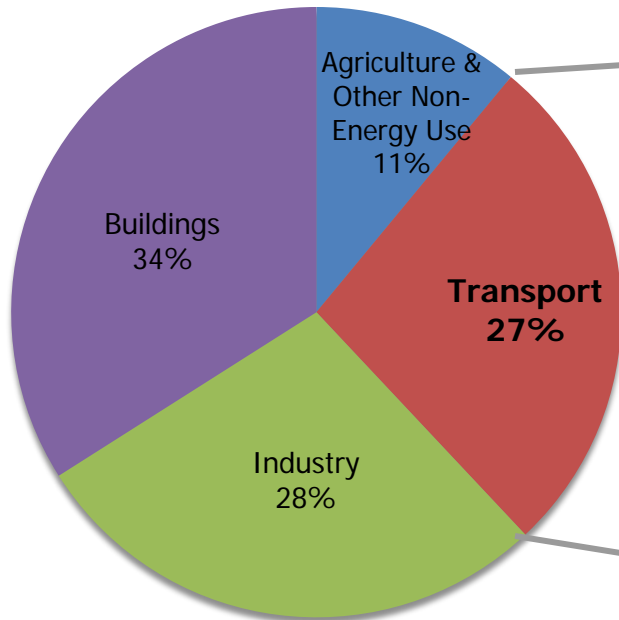
Oil is terrorism

Oil is dependency

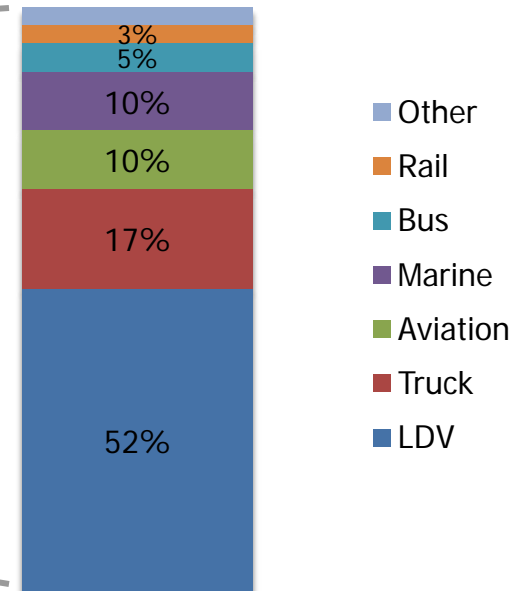


Global Motive Energy Use

Global Energy Demand by Sector (2012)

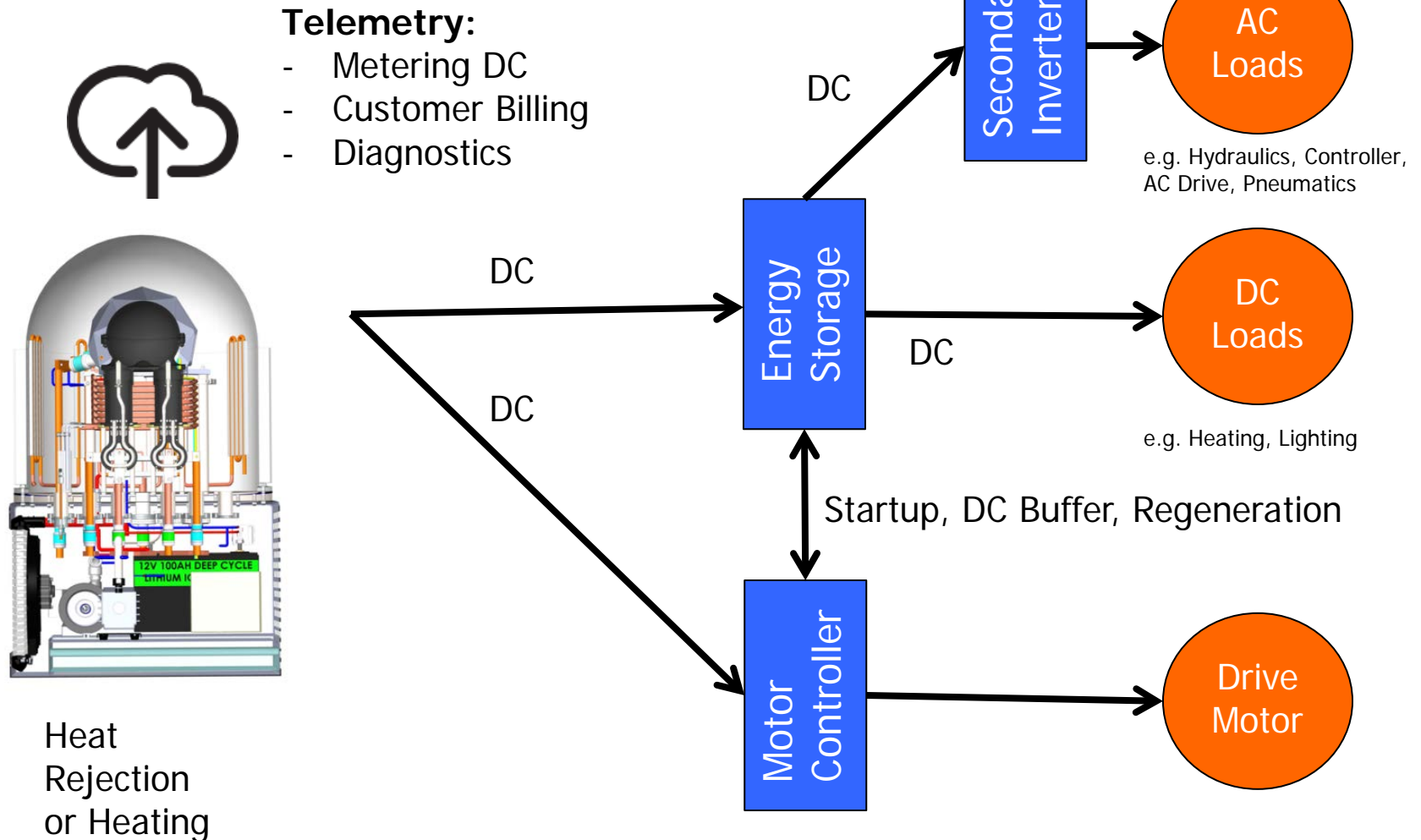


Transport Energy Use by Type



- Transportation consumes ~2,200 million tonnes of oil equivalent (Mtoe) of energy each year or 25,586 Terawatt hours.
- 700M+ Passenger Car population drives energy use, but hours of operation relatively low (~5% of time)

SunCell Motive System



Motive Markets



- 3.4M medium & heavy duty trucks per year
- 0.3M buses per year
- Average of 200kW power, utilized 30-70% of time
- 3,500 terawatt hour electricity potential (add per year)
- **> EU existing electricity generation**



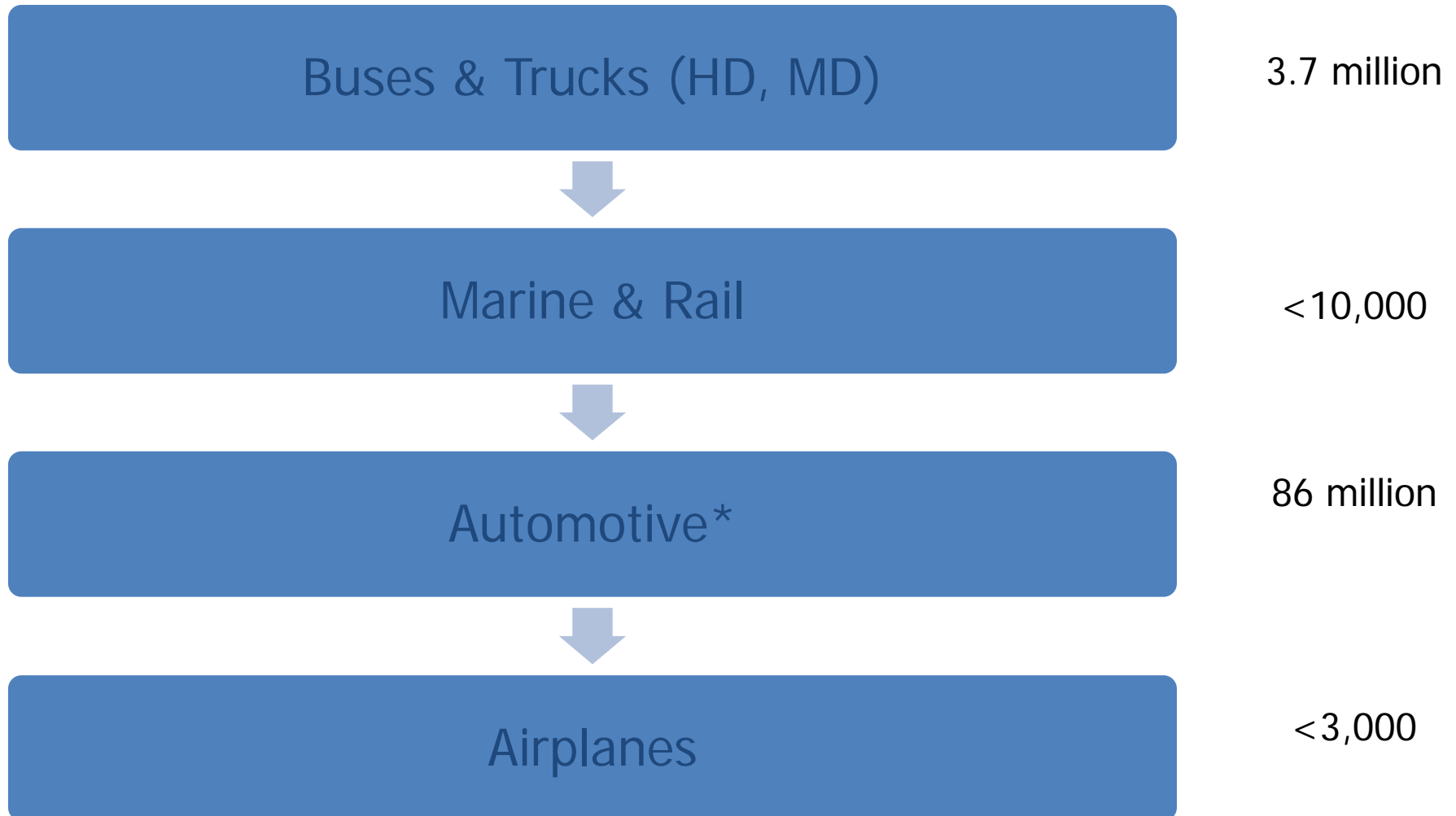
- 86M automobile & light duty Trucks per year
- Average of 100kW power, only used on road 5% of time
- SunCell generate power other 95%
- 46,000 terawatt hour electricity potential (added per year)
- **2X existing global electricity generation**



- Trains and ships comprise mobile electric power plants and have a substantial electric hotel load
- Unique requirements for aviation, unmanned aerial vehicles (UAV) and business jets may be entry points, early electric jets have been demonstrated as the industry moves towards electrification

Motive Market Launch

Lowest Market Complexity to Highest

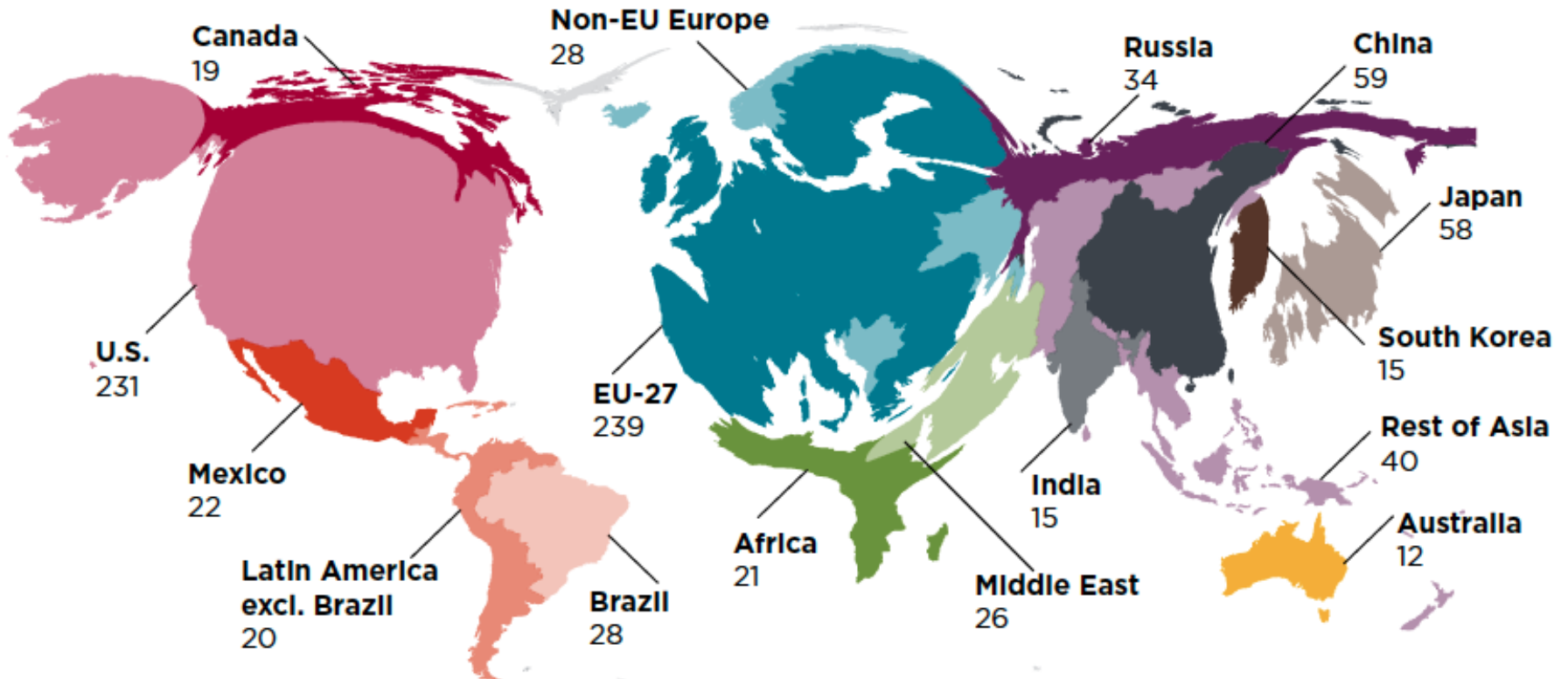


* Automotive includes Light Duty Vehicles (LDV)

Company Confidential

Vehicle Population Provides Profound Opportunity

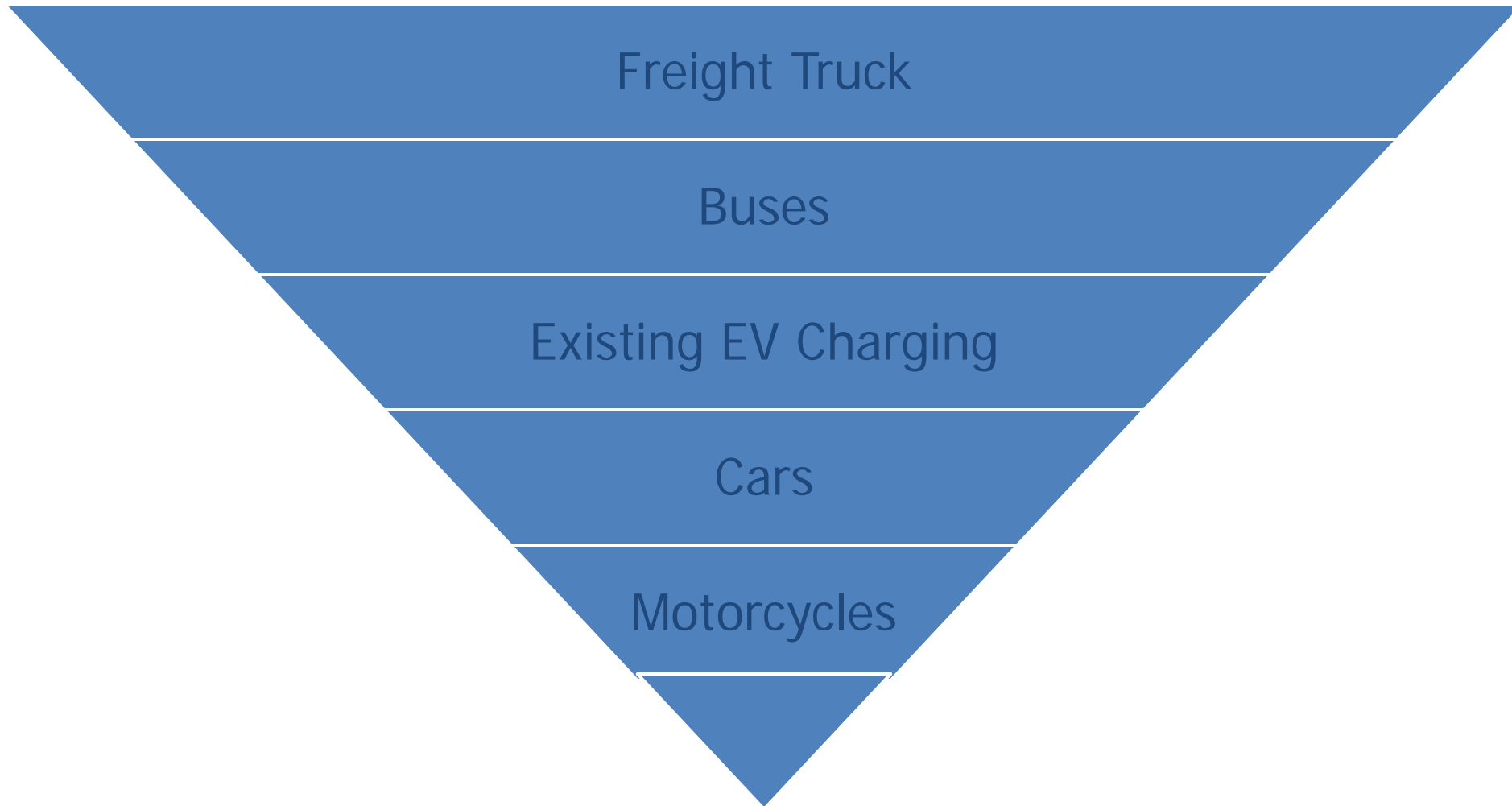
Passenger Car Vehicle Stock 2013 (millions)



2015 Production: 68M Passenger Cars and 18M Light Duty Trucks

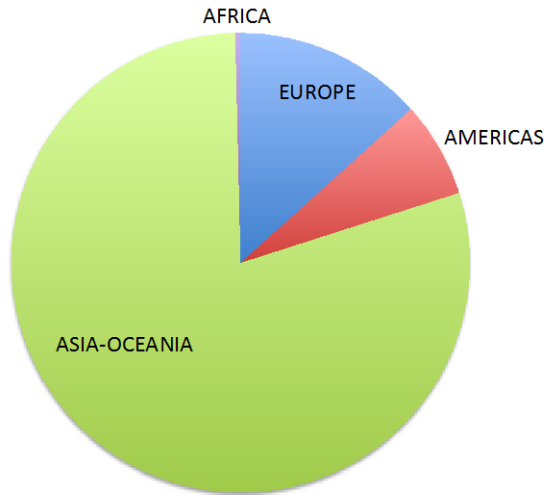
Motive Vehicle Market Launch

Highest Power and Energy Usage to Lowest

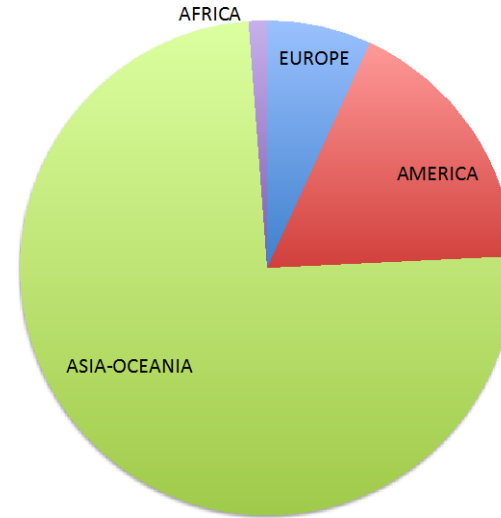


Trucks & Buses Have High Power Utilization

Bus Production 2015
(323K units)



HD Truck Production 2015
(3,429K units)

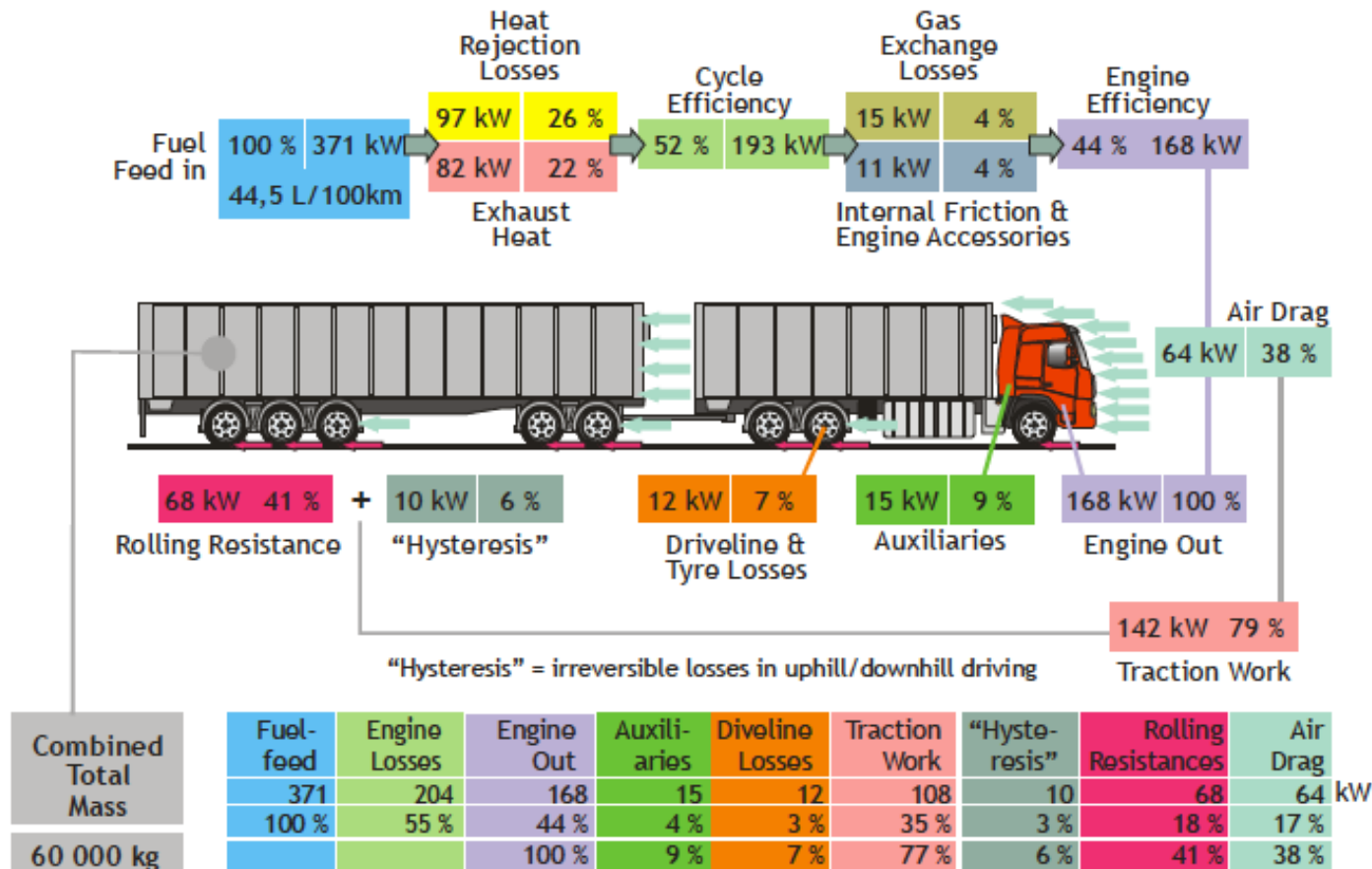


- 3.8 million units per year
- 22% of global transportation energy use with 4% of annual volume
- #1 cost driver is fuel; 39-71% of total operating cost
- High utilization rates
 - Buses: 12-20 hours of operation per day
 - Trucks: 8-14 hours of operation per day
 - Autonomous driver technology has potential to drive up utilization

HD Truck Peak Power Varies 2.5X from Cruise

Volvo FH12: Engine 450kW peak, cruise 168kW or 37% of peak power

60 ton Tractor & Trailer, Full Payload, Freeway at 80 km/h



Buses & Trucks Attractive Due to High Use cont'd

HD Truck Examples (Replace Diesel Engine & After treatment)

Vehicle Type	Engine Size Today	SunCell Rated Net Capacity DC (kW)	Rate per mile/kW	Upfront Payment Range \$50-100/kW
Bus	212	250	\$0.0015	\$50.00
MD Truck	209	250	\$0.0015	\$50.00
HD Truck	350	350	\$0.0015	\$50.00

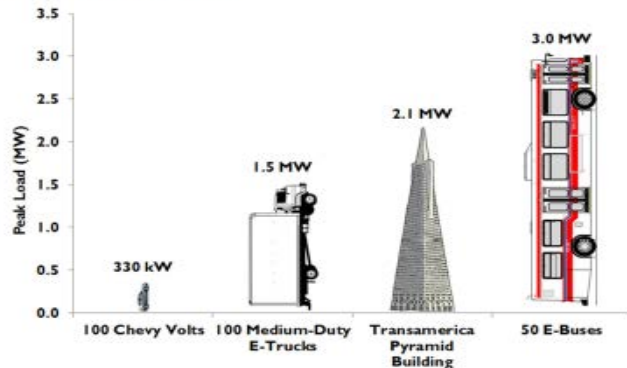
Upfront Costs					
Vehicle Type	SunCell Rated Net Capacity DC (kW)	Diesel Engine Cost	After treatment Cost	Upfront Payment (100% share)	SunCell Upfront Savings
Bus	250	\$12,500	\$4,955	\$12,500	\$4,955
MD Truck	250	\$12,500	\$4,955	\$12,500	\$4,955
HD Truck	350	\$17,500	\$6,937	\$17,500	\$6,937

Annual Fuel Cost						
Vehicle Type	Miles Per Year	MPG	Fuel Cost	Fuel Cost / Year	SunCell Cost / Year	Customer SunCell Fuel Savings /yr
Bus	46,600	3.30	\$3.82	\$53,943	\$17,475	\$36,468
MD Truck	24,850	3.20	\$3.82	\$29,665	\$9,319	\$20,346
HD Truck	109,226	6.55	\$3.82	\$63,701	\$57,344	\$6,358

- Customer get immediate cost savings and clean energy!
- BrLP, no capital required at mature volume
- BrLP annual leases from \$9K to 57K per unit

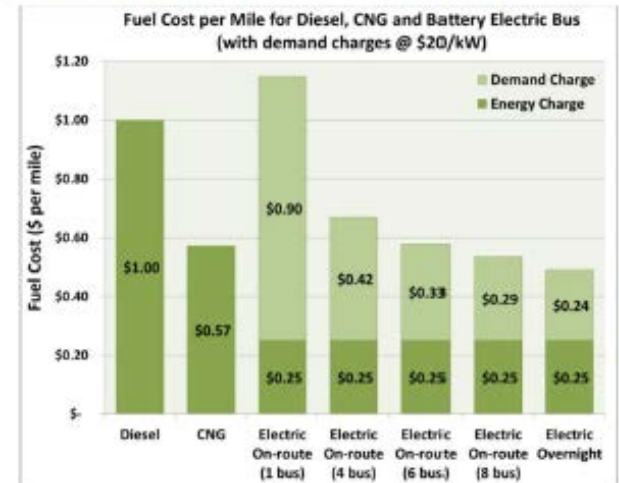
Motive EV Charging: Bus and Truck Market Launch

Figure 14: Peak loads for various electric vehicle fleets (without mitigating grid impacts)



Assumptions: the Chevy Volt charging rate is 3.3 kW, the medium-duty E-Truck charging rate is 15 kW and the E-Bus charging rate is 60 kW. The peak load for the Transamerica Pyramid building is from [26].

Figure 11: Impact of peak demand charges on E-Buses



Source: CALSTART [19]

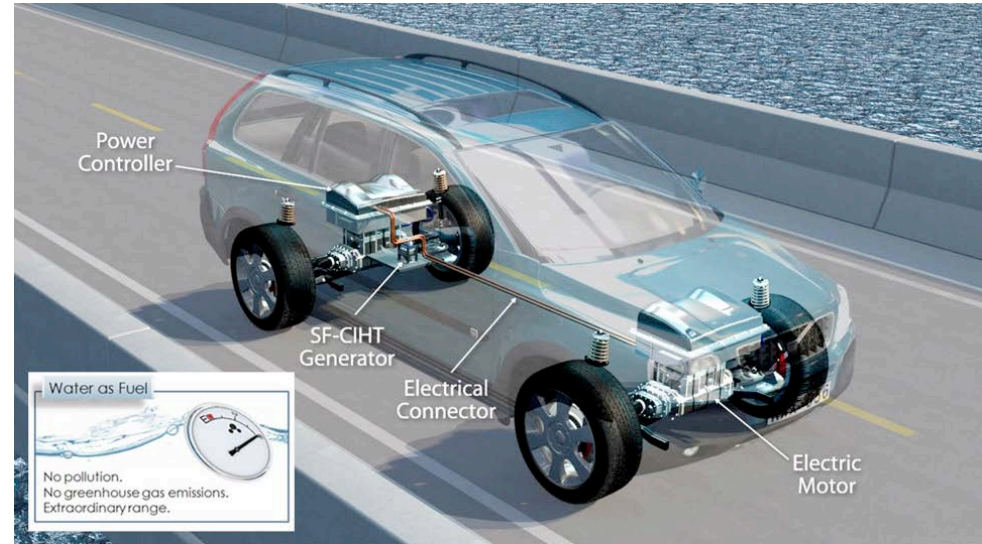
Assumptions:

Each bus drives 40,000 miles per year. The diesel bus has a fuel economy of 4 MPG and diesel is priced at \$4.00 per gallon. The CNG bus has a fuel economy of 3.5 MPDGE and CNG is priced at \$2.00 per DGE. The electric transit buses have an efficiency of 2.5 AC kWh/mile and electricity is priced at \$0.10/kWh. One electric bus charging on-route draws 150 kW from the grid, 4 draw 280 kW, 6 draw 330 kW and 8 draw 380 kW. The electric bus charging overnight draws 40 kW from the grid.

- Municipalities are rapidly adopting electric buses
- Freight trucks are also being electrified
- SunCell charger eliminates demand charge, transmission charge, utility regulations and bureaucracy, electrical infrastructure build out
- Charge per kWh with savings of about half the current cost of electric battery charging
- Batteries are more expensive than a SunCell of the same power, but a charging station can be run continuously so the SunCell economics based on utilization are better

Motive Car Market Launch

- Over 1000 miles per liter of water.*
- Projected cost of \$50-\$100 per kW electric.
- One third the weight of an internal combustion engine (ICE).
- Projected 200 kW (267 HP) SunCell and electric drive system is less than that of a comparable combustion system.
- Has the potential of unsurpassed capability in terms of range, capital cost, power, logistics, and pollution abatement to zero including zero carbon dioxide emission.



***Calculations:** H_2O to $\text{H}_2(1/4) + 1/2\text{O}_2$ (50MJ/mole or 2.78 GJ/kg, 2.78 GJ/liter)

Model S energy consumption rate of 291 Wh/mile
<http://www.teslamotors.com/goelectric#savings>

1 Whr = 3600 J

Model S energy consumption rate of 1 MJ/mile

2780 MJ/liter / (1 MJ/mile) X 0.4 (PV efficiency) = 1112 miles/liter

Converting Passenger Cars to Generators

Top selling models by region

Region	Model	Engine (kW)	SunCell Lease*	Customer Revenue Potential*
USA / Canada	Ford F150	275	-\$5,500	\$9,636
Australia	Toyota Corolla	103	-\$2,060	\$3,609
Europe	VW Golf	81	-\$1,620	\$2,838
Mexico	Chevrolet Aveo	77	-\$1,540	\$2,698
China	Wuling Hong Guang	63	-\$1,260	\$2,208
Brazil	VW Gol	56	-\$1,120	\$1,962
Japan	Toyota Aqua	54	-\$1,080	\$1,892
India	Maruti Alto 800	35	-\$700	\$1,226

* Lease –\$0.002 per mile/kW; minimum charge of 10,000 miles per year.

* Customer uses SunCell 20% of time as generator at \$0.05 per kWh; the revenue is split with the lessee (60% BrLP/40% lessee)

Motive EV Charging: Car Market Launch

- EV's can replace internal combustion engine cars, but convenient high power electricity is needed
- The cost of the required massive power plant and grid build out that would be in the trillions (doubling of the current infrastructure) is avoided by deploying autonomous distributed SunCell charging stations
- Batteries are more expensive than a SunCell of the same power, but a charging station can be run continuously such that the SunCell economics based on high utilization are better
- Charge \$0.05 per kWh with savings of about half the current cost of electric battery charging



Motive to Stationary



Super Electric



- US installed electric power capacity: 1 TW, 3 kW/person
1 kW residential, commercial, industrial, respectively, CF = 50%
- Registered road vehicles: 260 million (180 M cars @100 kW, 2.5 M heavy trucks @500 kW, 77.5 M light trucks @250 kW) = 120 kW/person
- Non-road availability of cars: 23 h/day = 95%
Peak load use of SunCell vehicle generators: $3/120 = 2.5\%$;
off-peak $1/120 = 0.85\%$, **average 1.5%.**
- Once 2% of cars are SunCell equipped (4 months of car production), present electric power demand would be fully met by SunCell cars. We need to find new uses for the other 98% capacity of SunCell cars
- 100kW engine average power
- 5% of time for transportation
- SunCell becomes generator other 95%, revenue is split with the lessee (60% BrLP/40% lessee)
- New applications of the inexpensive, clean massive motive to stationary power are anticipated: water treatment, desalination, continuous hydroponic farming, fish farming, production of commodities and materials such as hydrogen, aluminum, steel, paper, and glass, land reclamation, super power intensive mass transit such as the Hyperloop and high speed rail (maglev) and defense applications such as energy-directed missile defense (e.g. free electron and other lasers and railguns)
- Sea floor and ocean mining (seawater contains about 2-100 ppt of silver and about 0.1 to 2 mg / ton of gold)

Passenger Car Leverages Motive to Stationary

Automotive Examples

				Upfront Costs			
Vehicle Type	Engine Size Today	SunCell Rated Net Capacity DC (kW)	Rate per mile/kW	Upfront Payment Range \$50-100/kW	Gas Engine Cost Estimate	Upfront Payment (ICE cost @ SunCell Power)	SunCell Upfront Savings
Ford F150	275	250	\$0.0020	\$50.00	\$2,597	\$2,361	\$236
Hyundai Elantra	129	150	\$0.0020	\$50.00	\$1,218	\$1,417	-\$198
Toyota Corolla	103	100	\$0.0020	\$50.00	\$973	\$944	\$28

Annual Fuel Cost						
Vehicle Type	Miles Per Year	MPG (EPA combined)	Fuel Cost (Gas 2014)	Fuel Cost / Year	SunCell Cost / Year	Customer SunCell Added Cost /yr
Ford F150	14,500	20.00	\$3.34	\$2,422	\$7,250	-\$4,829
Hyundai Elantra	14,500	31.00	\$3.34	\$1,562	\$4,350	-\$2,788
Toyota Corolla	10,000	29.00	\$3.34	\$1,152	\$2,000	-\$848

Stationary Power Resale				Summary	
Vehicle Type	Stationary Power Resale (20% of day @ \$0.05per kWh)	BrLP Revenue (60%)	Customer Rebate (40%)	BrLP Revenue / Year	Customer Net Savings / Year
Ford F150	21,900	13,140	8,760	\$20,390	\$8,312
Hyundai Elantra	13,140	7,884	5,256	\$12,234	\$5,096
Toyota Corolla	8,760	5,256	3,504	\$7,256	\$4,408

- Customer uses car to generate income when stationary
- OEM neutral on cost versus ICE
- BrLP annual revenue of \$10K to 20K per unit

Transport Refrigeration Market

Road (Large Trucks & Trailers)	4,000K	200K	5-20kW
Intermodal (ocean)	950K	100K	4-12kW
Railcars	20K	Low	10-30kW

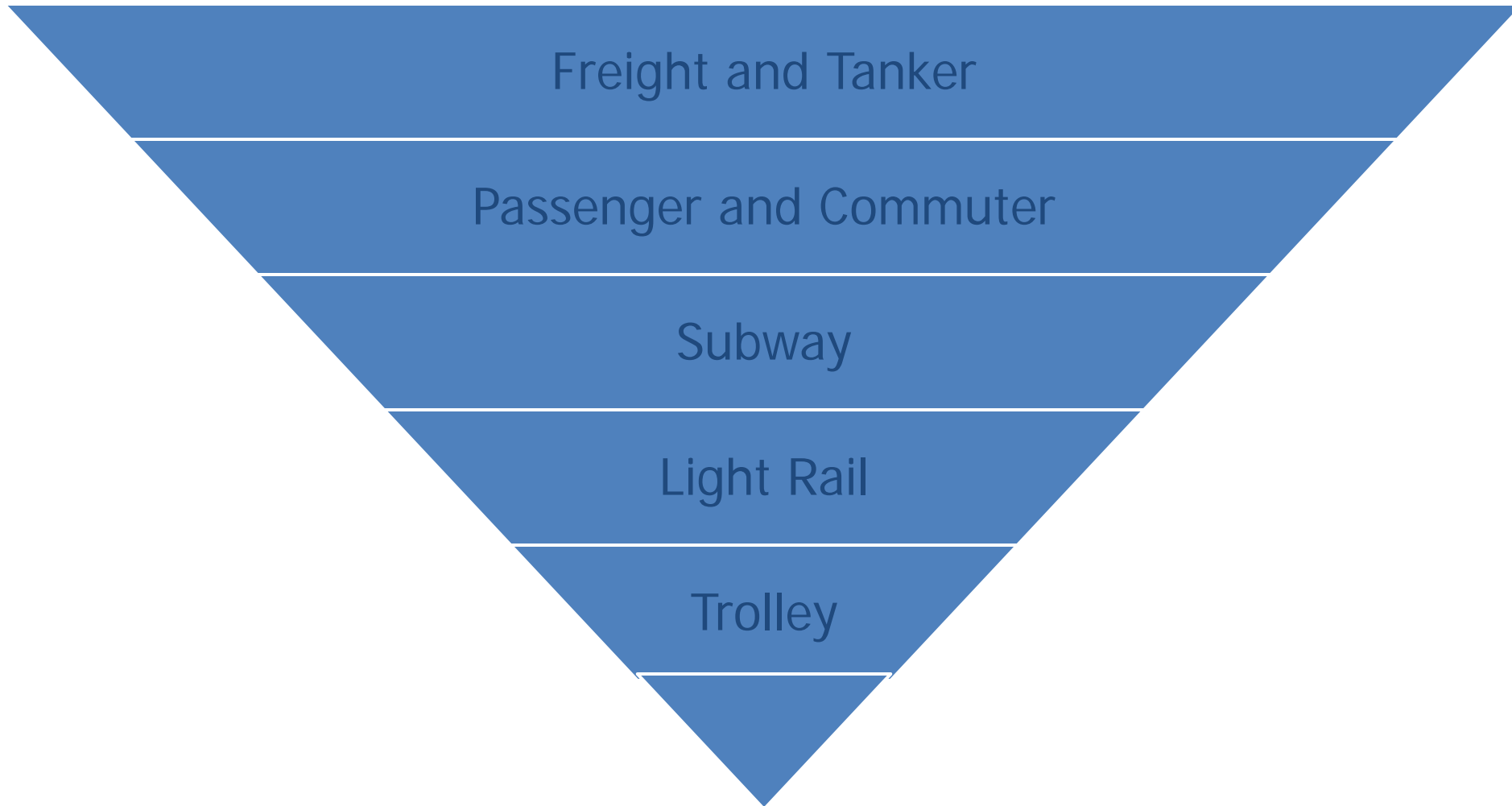


- Applications typically powered by Truck or Ship engine today.
- Some installations have standby generators
- Early market opportunity to provide 10kW SunCell in lieu of engine or generators

Ref: 29th Informatory Note on Refrigeration Technologies /
November 2015 - The Role of Refrigeration in the Global Economy,
2010 TOC Refrigeration, A/C and Heat Pumps Assessment Report

Motive Rail Market Launch

Highest Power and Energy Usage to Lowest



Motive Rail Market Launch cont'd

- Railways transported over 8% of the world's passengers and goods.
- The rail sector used close to 611 TWh of energy in 2012, mostly provided by oil products and electricity.
- Electrification accounts for nearly one third of total tracks globally in 2012.
- SunCell enables 100% conversion to electric system without high infrastructure conversion cost
- \$0.05 per kWh charge with savings of over \$0.05 per kWh on just the energy use

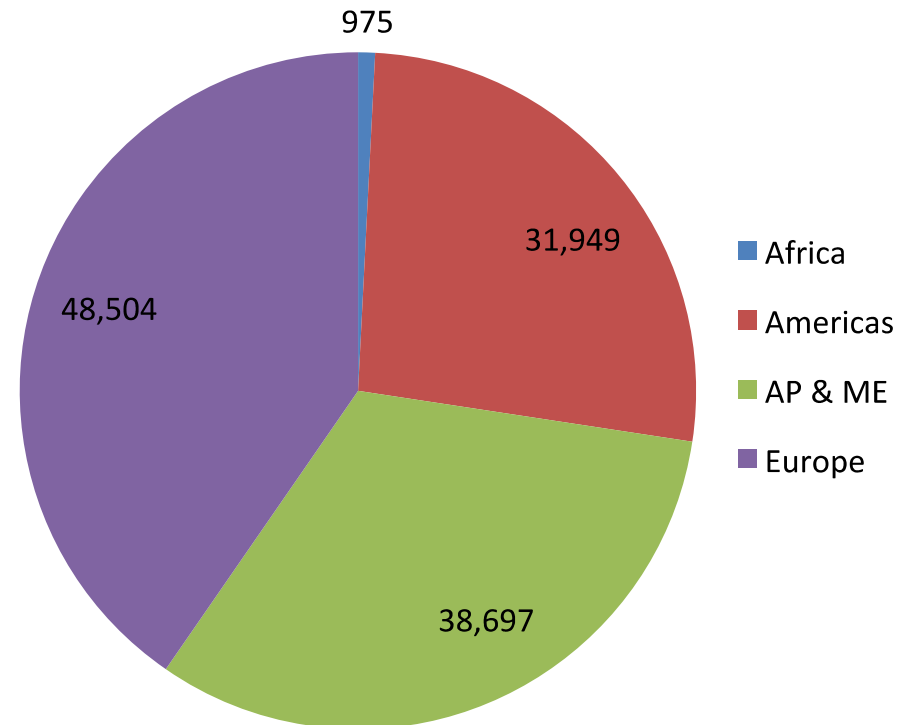


Motive Rail Market - Locomotives



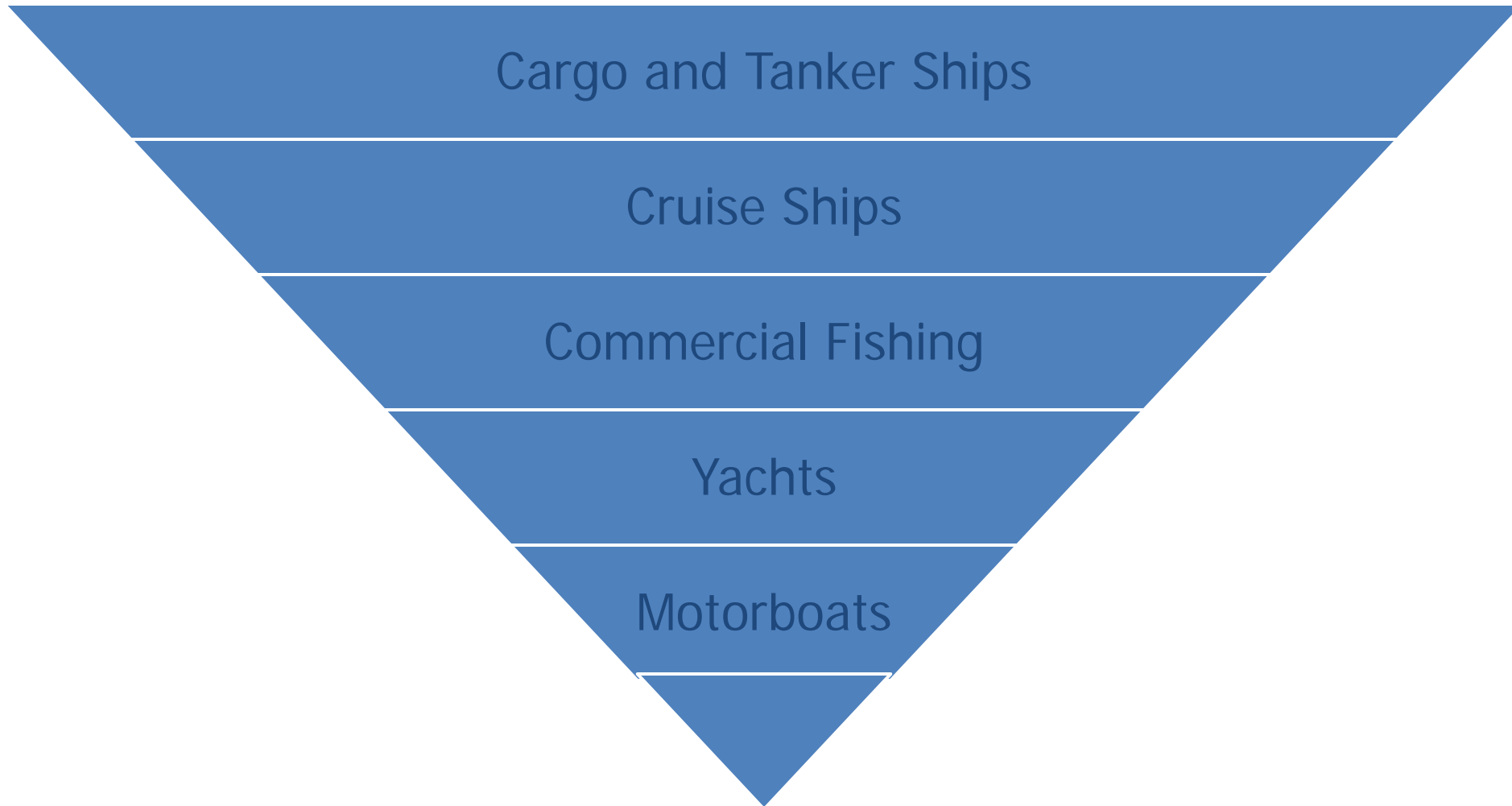
- 120,125 units worldwide
- Average age 27 years
- Annual orders of 5,000-7,000 units
- 611 TWh of energy in 2012

**Locomotive Units,
including light rail**



\$31B market potential, with comparable savings for operators

Highest Power and Energy Usage to Lowest

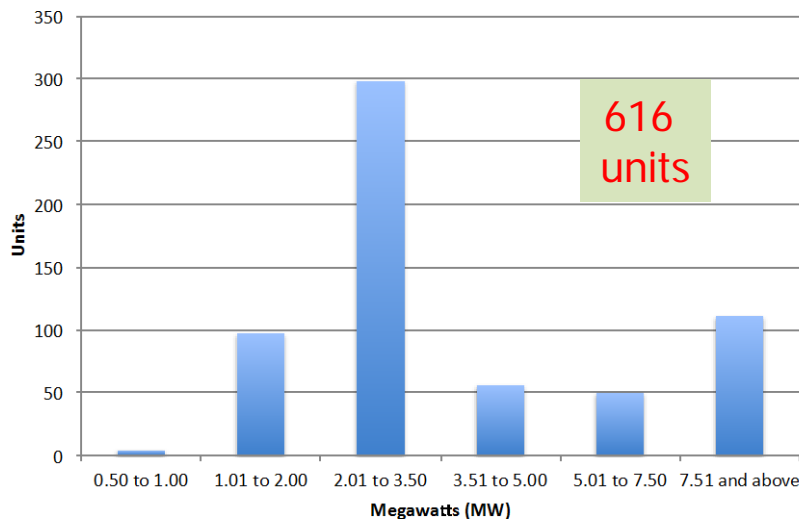


Marine Power Market

Propulsion Generator Set



Propulsion Generator Sets 2014

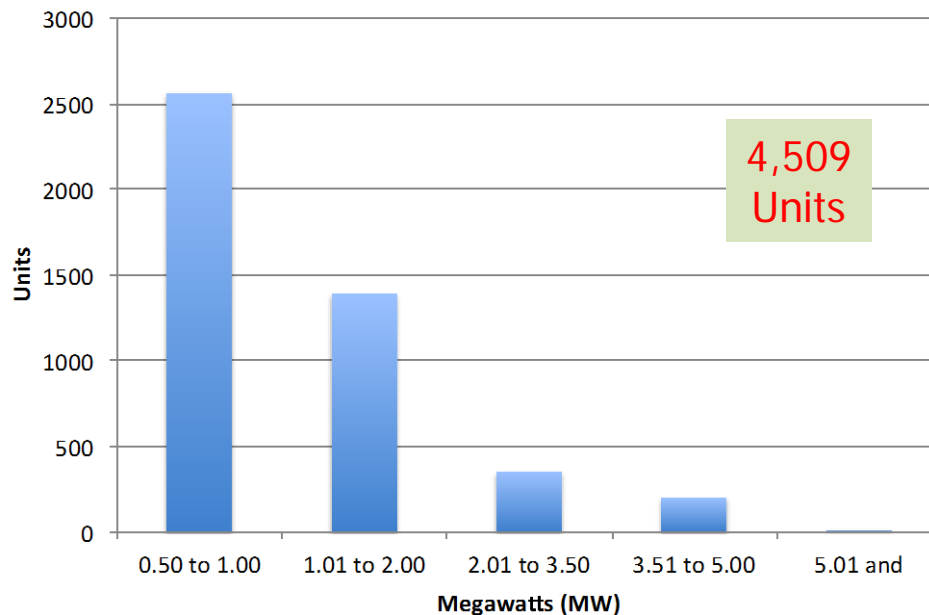


- 1 MW SunCell is planned for the heavy marine market
- Majority of the market is in the range of 2 to 3 MW.
- Electric propulsion is becoming mainstream
- Ships are floating power plants
- Electric hotel loads of about 100 kW scale can serve as an entry point
- Charge per nautical mile and per kWh for hotel load with savings of about half the current cost
- Market share: Wärtsilä 59%, MAN 16%, Caterpillar 7%

Marine Auxiliary Generator Market Served by Paralleling SunCells



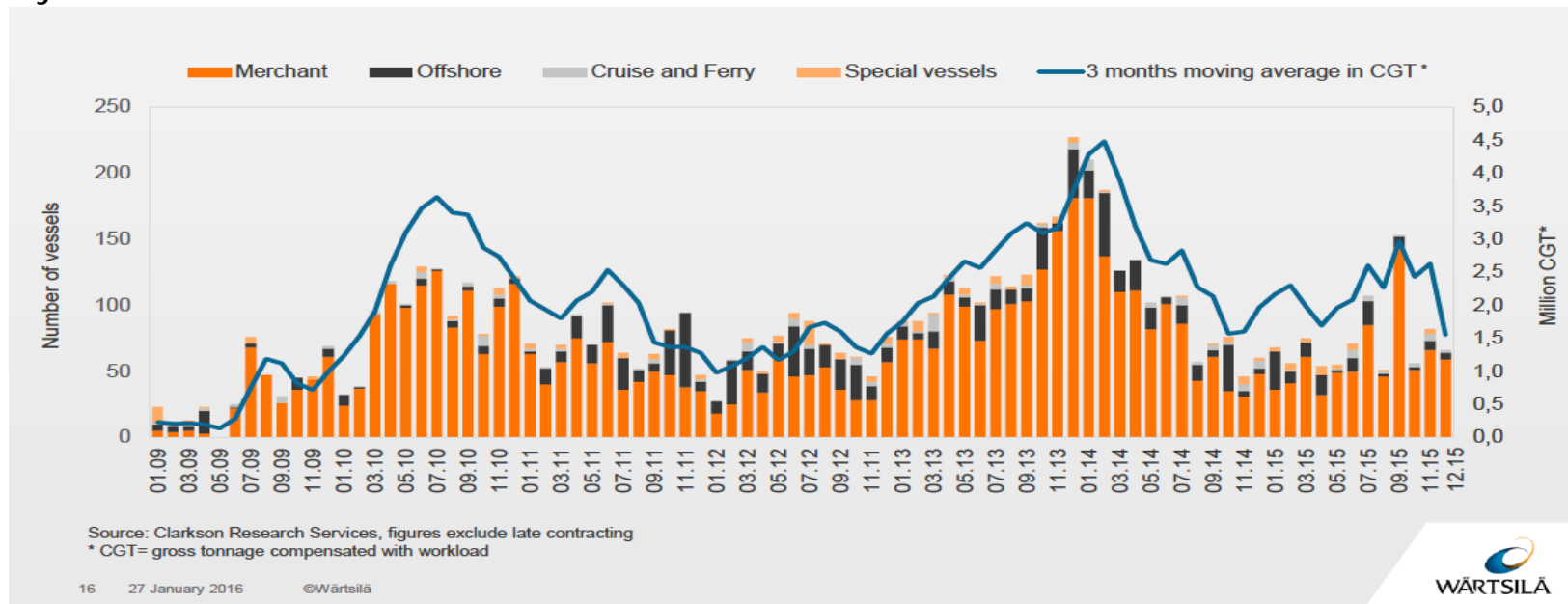
Auxiliary Generator Sets 2014



- 500 kW to 2 MW corresponding to 2 to less than 10 ganged 250 kW SunCells services the majority of the market
- Auxiliary Generator Set is fragmented: Wärtsilä's 12%, many other including MAN, HiMSEN (Hyundai Heavy Industries), etc.

Marine Market Power Requirements

Cyclical Vessel Contracts

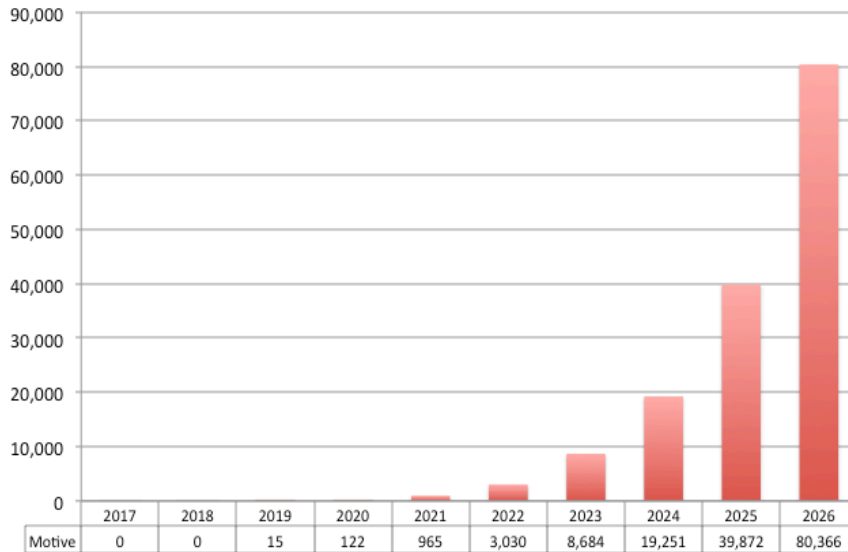


2014 & 2015 Averaged	Ship MW / year	SunCell \$/kWh	Engine Hours / Year	Avg Power Used	\$B / year
Medium Speed Engines	3,865	\$0.05	4,000	50%	\$0.39
Auxiliary Engines	5,675	\$0.05	4,000	50%	\$0.57

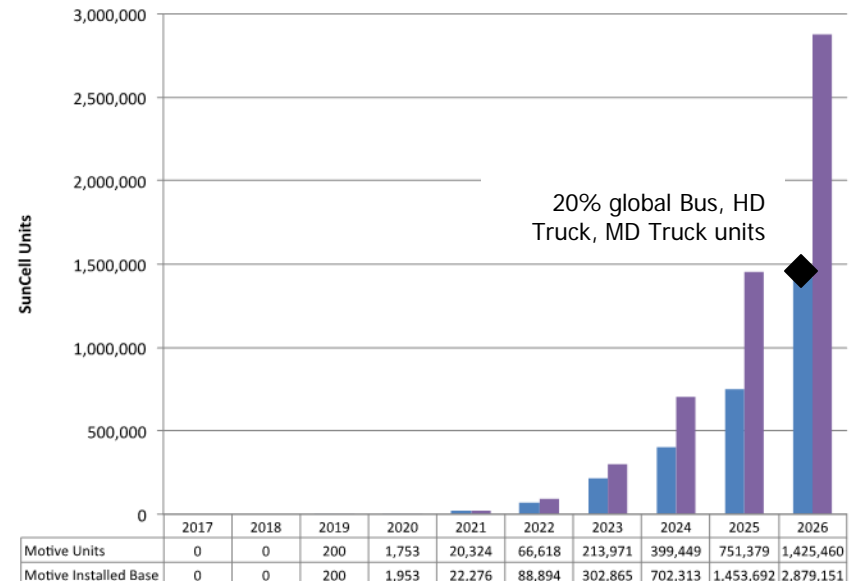
Marine power demand estimated at \$24B per year

Motive Financials (Bus, Truck, Car, Rail, Marine)

Brilliant Light Power Sales - Motive
(\$ million)



SunCell Motive - Units



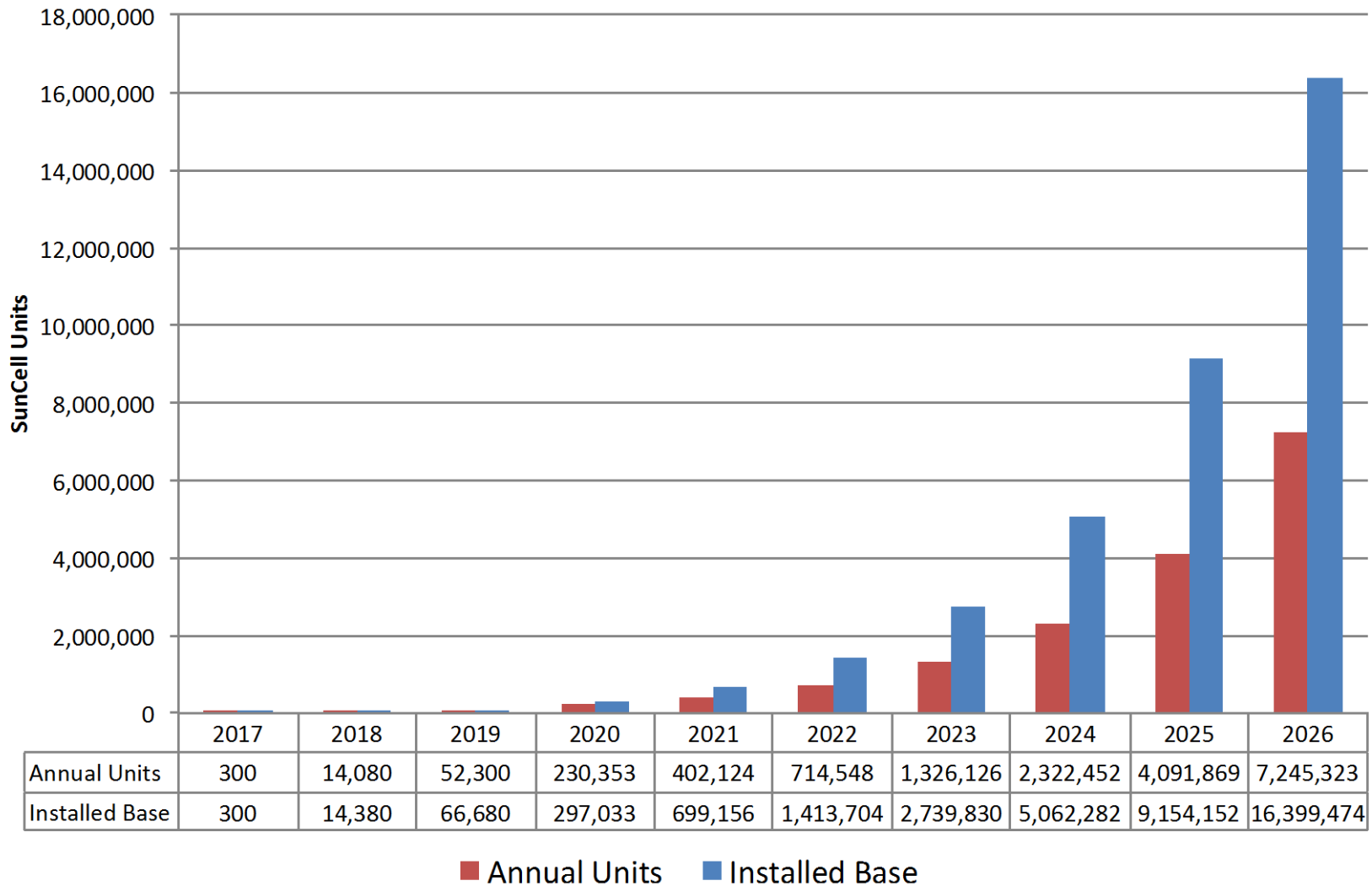
- Bus & MD/HD Trucks
 - Launch 2019 with 250kW & 350kW SunCells
 - Leverage 250kW Stationary design
 - Target high utilization customers
 - Upfront fee near cost of diesel engine
 - Customer has immediate payback
 - Lease rate of \$0.002 per mile /kW, over 10K miles per year then rate of \$0.0015
 - Upside as Generators with 60% BrLP/40% Customer share

- Auto / LD Truck
 - Launch 2020 with 100-250kW SunCells
 - Focus on mid-range cars, 150kW
 - Global rollout
 - Upfront fee to match ICE cost
 - Customer has immediate payback
 - Lease rate of \$0.002 per mile /kW PLUS 20% of time as generator at \$0.05/kWh
 - Revenue share generation 60%/40%

Financials – SunCell Units

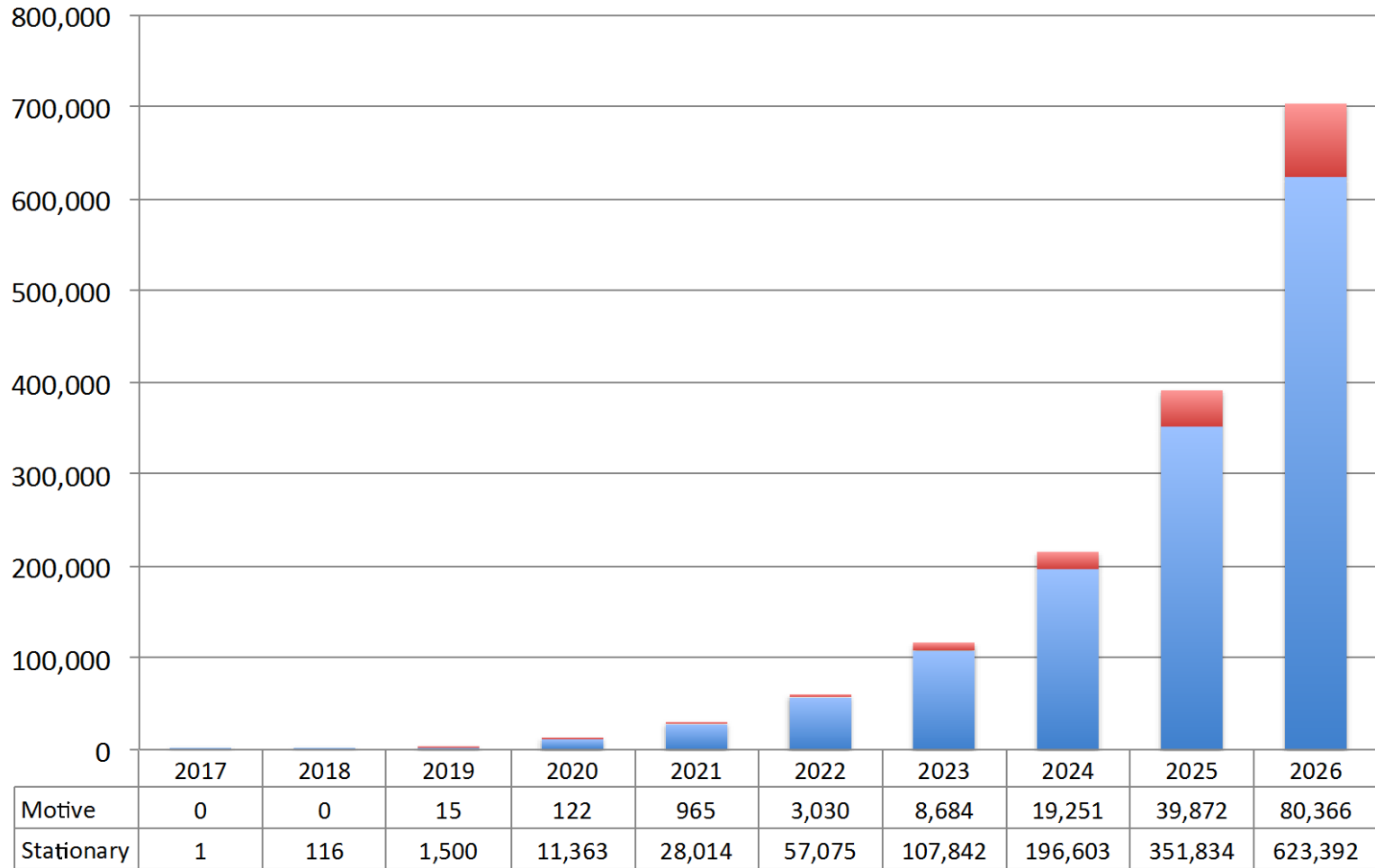
Stationary & Motive Markets

SunCell Total
Units



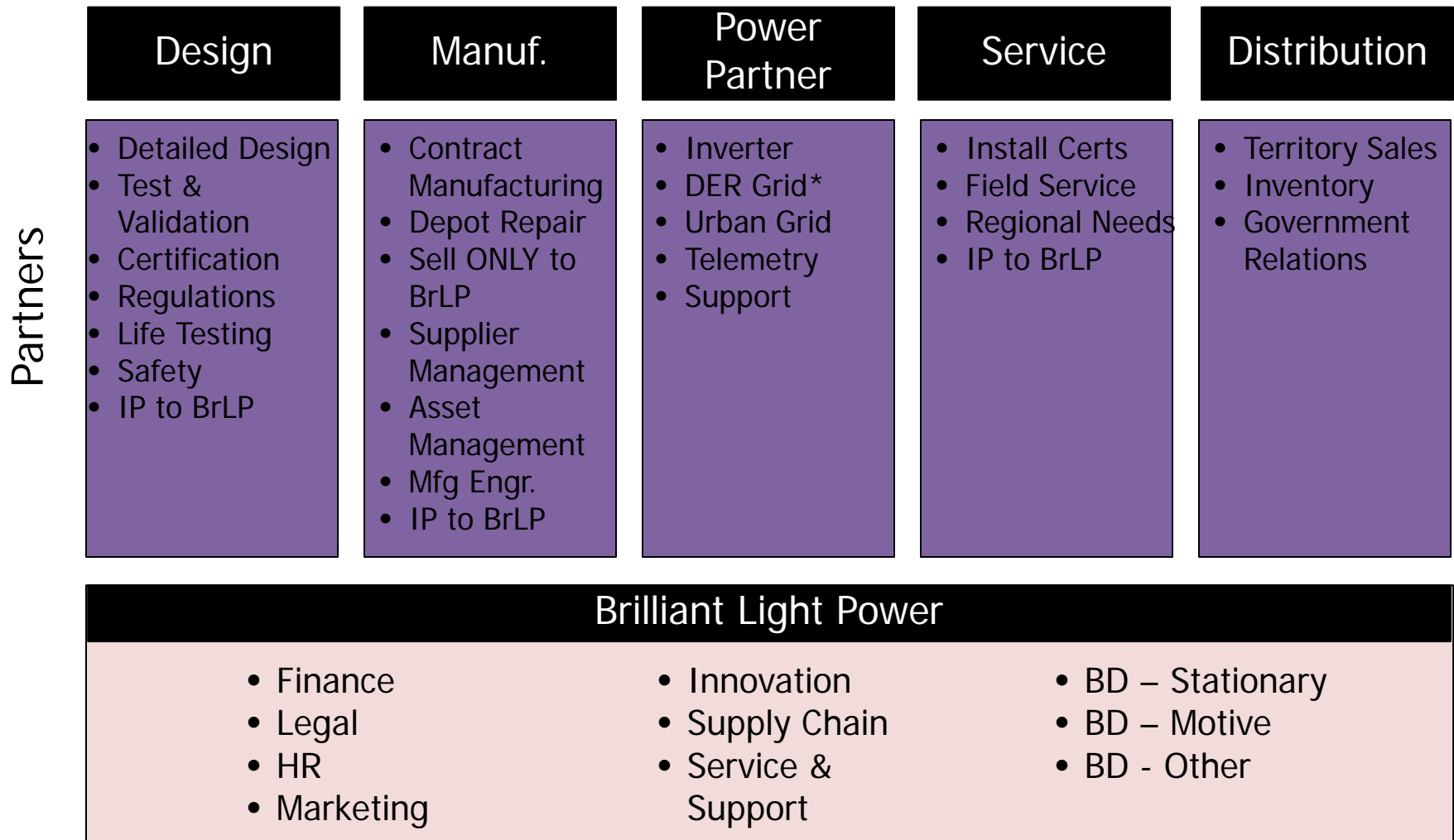
Financials – SunCell Revenue

Brilliant Light Power Sales
(\$ million)



■ Stationary ■ Motive

Partnership Business Model



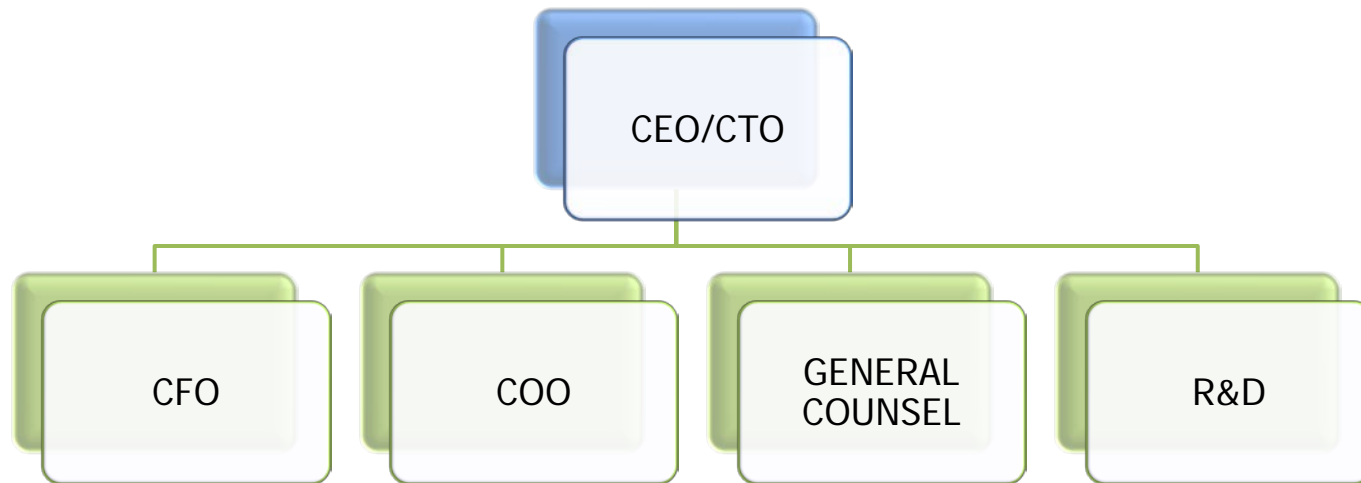
*DER: Distributed Energy Resource

BrLP Business Team Build Out

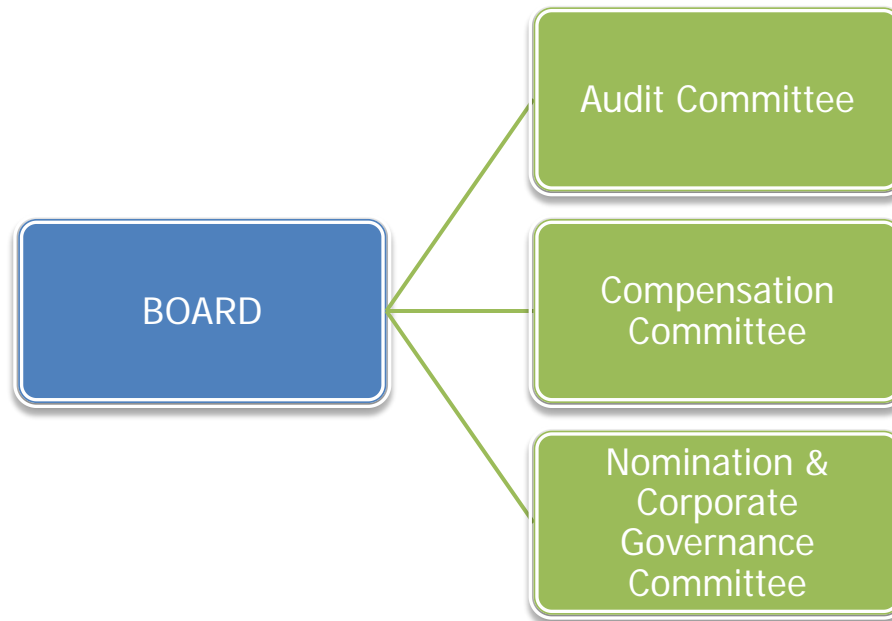
- CFO
- COO
- Innovation VP
- BD VP – Major Markets Leader
 - International
- Supply Chain VP
- Legal VP – SEC, Patent & Corporate
- Service & Support VP
- Marketing VP – PR, Government Affairs
- Human Resources – Staffing, Org. Development



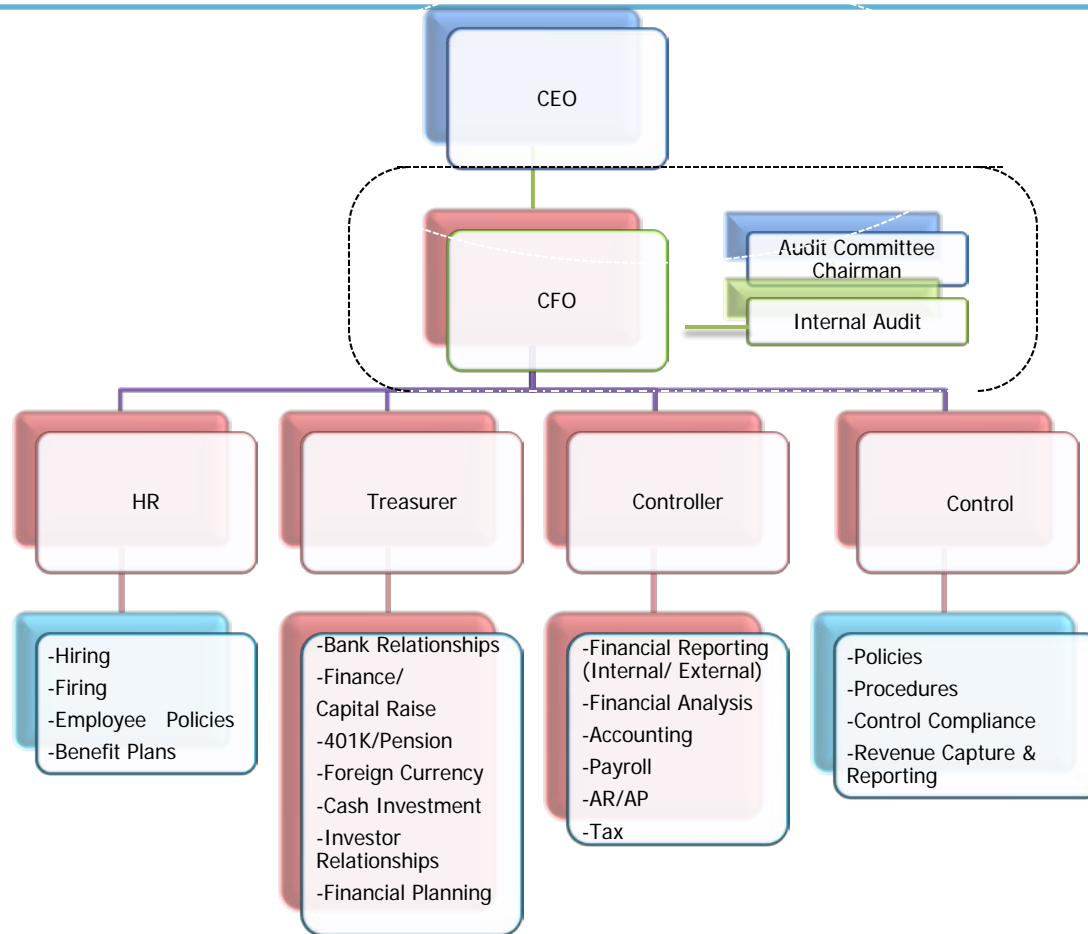
Executive Org Chart



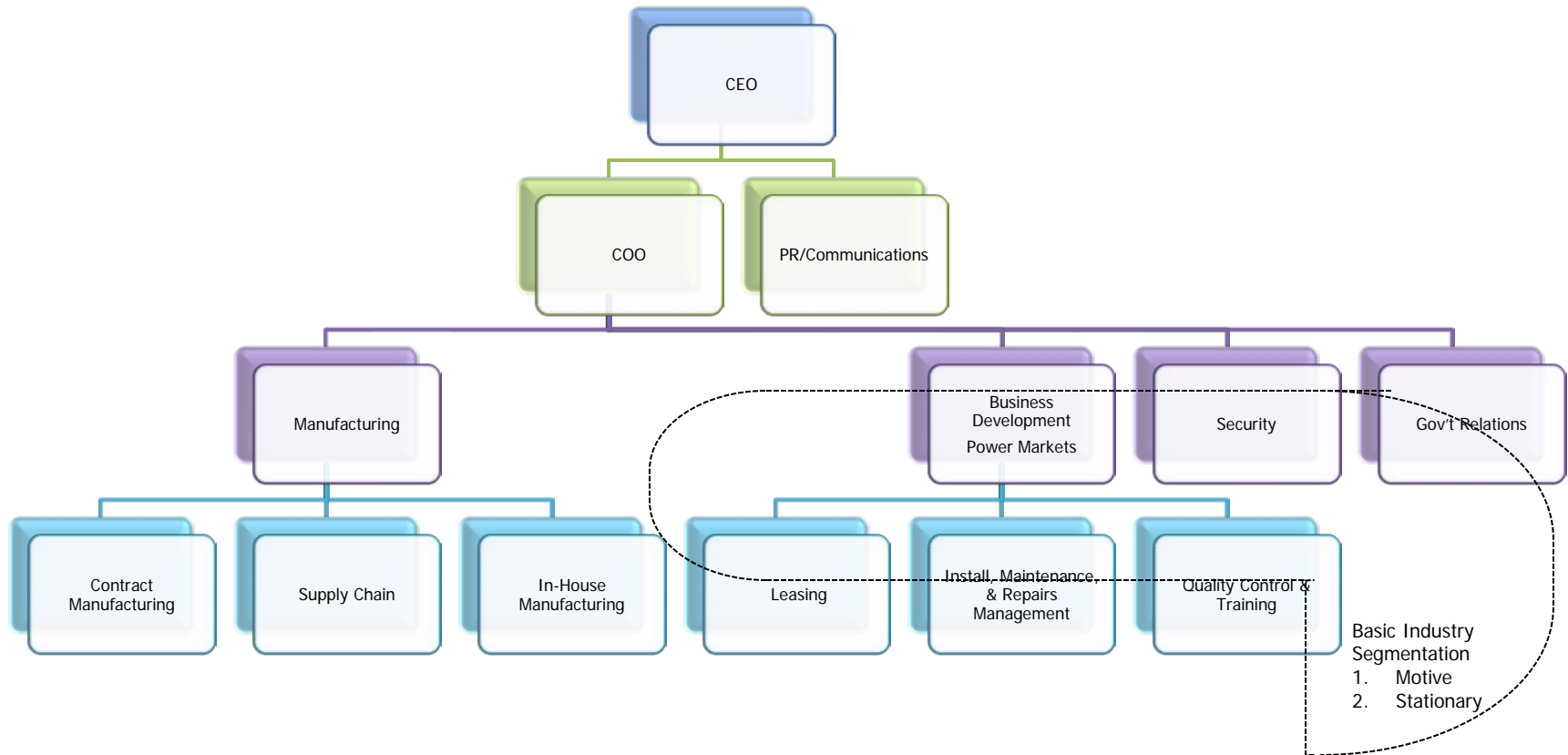
Executive Org Chart Continued



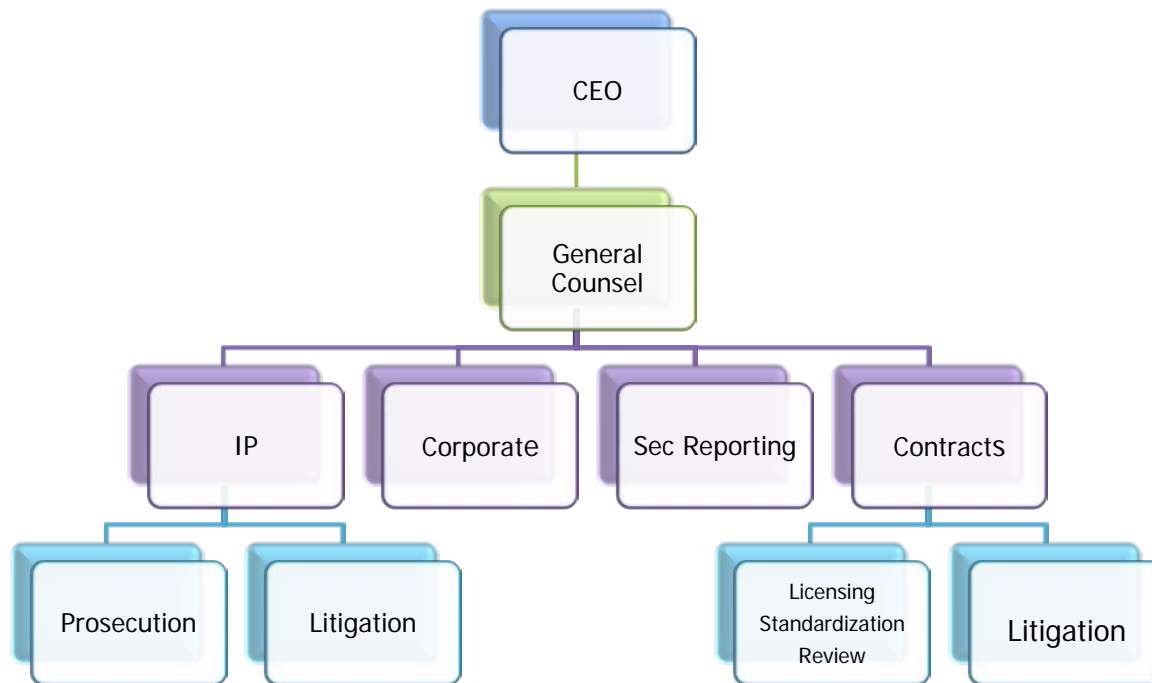
BLP Finance and Accounting



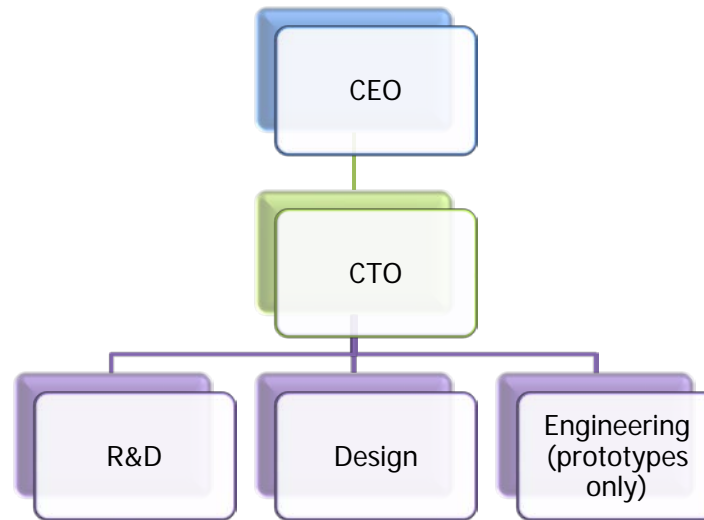
Operational Org Chart



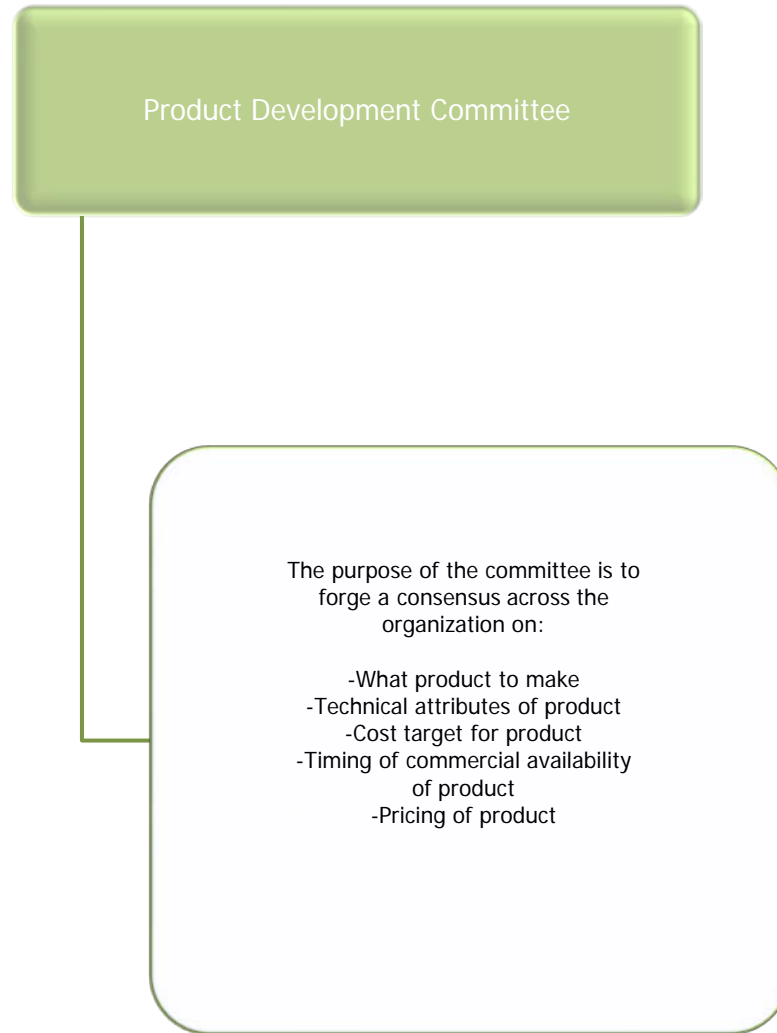
Legal Org Chart



Technical Org Chart



Product Development



Business Model

- Simple, Clean, Affordable Electricity
- Always on 7/24/365
- Lease with upfront install fee
- End users with long term contracts and relationship
- Self-financing with front-end fees and <90 days payback
- BrLP manages technology and partners, end users very limited risk
- Partnership based value chain for speed & expertise
- Off grid with regulatory independence
- Adoption favorable due to climate change
- Expands reach of electricity to far reaches of the planet, transforming the ways we use energy

Summary– Brilliant Light Power

- New, sustainable, nonpolluting energy
- Electricity Company of the future
- Extensive competitive position and customer value
- Off grid, freeing the system of high tariffs, regulation, and dependency
- Transitioning from research to product launch
- Building team, partners and suppliers for success

*Brilliant's SunCell could be the most important
energy technology of our generation*

Patents and Proprietary Technology Advantage

- Main priority is to file and obtain patents relating to the BlackLight Process, systems, and applications of the process.
- 68 issued patents provide coverage in many major energy markets (4 in the U.S.), and greater than 100 pending applications have been filed with important applications in U.S.
- World-wide applications related to the solid fuels process and thermal power plants were filed on April 24, 2008 and July 30, 2009.
- Worldwide applications on the breakthrough energetic plasma producing SunCells® entitled "Power Generation Systems and Methods Regarding Same", filed Jan 2014
- "Photovoltaic Power Generation Systems and Methods Regarding the Same"; application April 2014
- "Electrical Power Generation System and Methods Regarding Same", application May 2015
- "Ultraviolet Electrical Generation System Methods Regarding Same", application Dec 2015
- "Thermophotovoltaic Electrical Power Generator", application Jan 2016
- Corresponding applications have been filed or granted in over 50 foreign countries.
- The Company anticipates that the string of patent applications will provide broad patent protection, if these applications ultimately issue as patents.



Thank you!

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