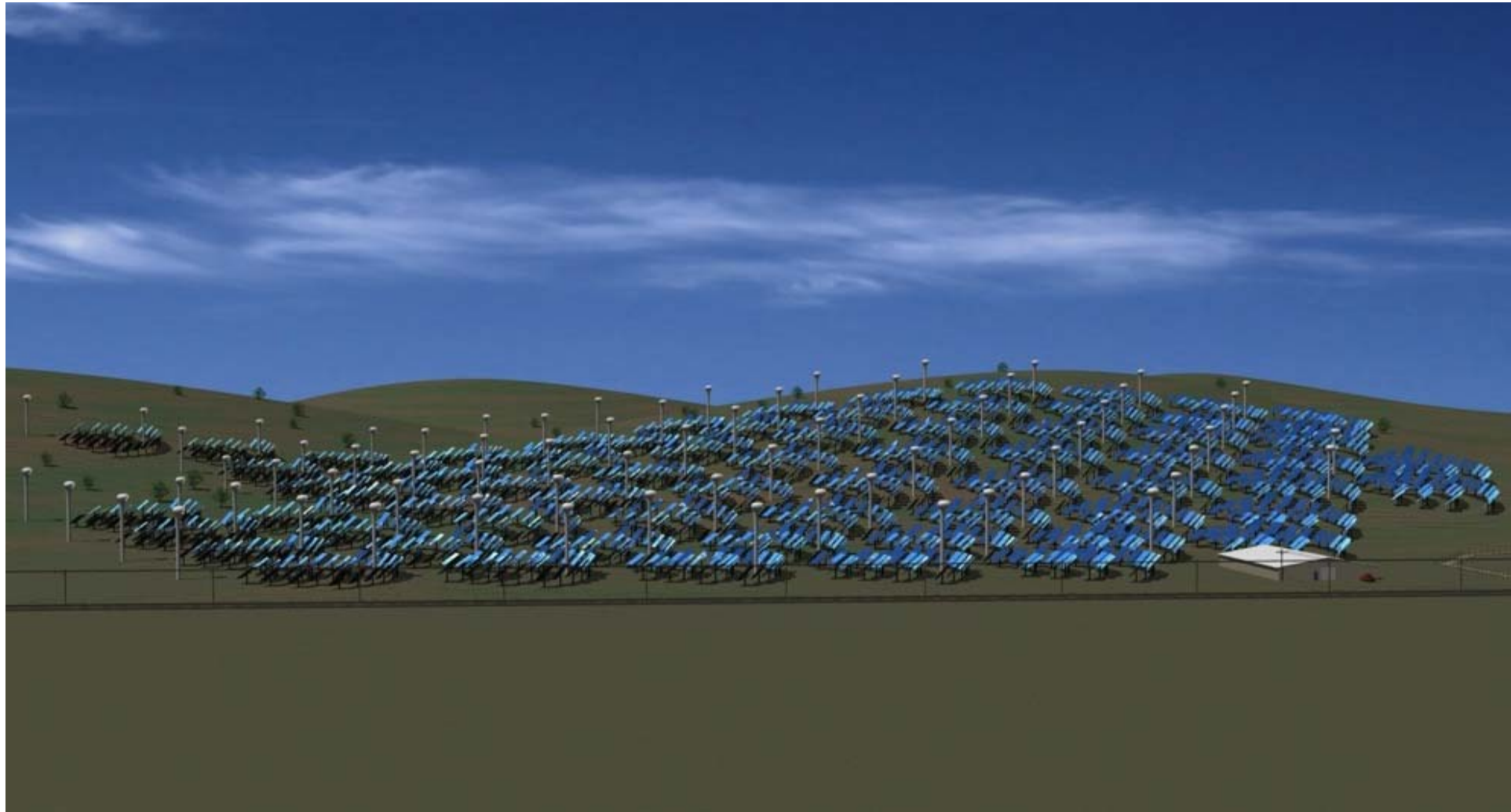


India's CSP leadership opportunity

Affordable, 24/7 guaranteed power on- or off-grid



WILSON
SOLARPOWER

Bruce N. Anderson, CEO
Wilson Solarpower Corporation
01-617-290-9913

Bruce.Anderson@WilsonSolarpower.com

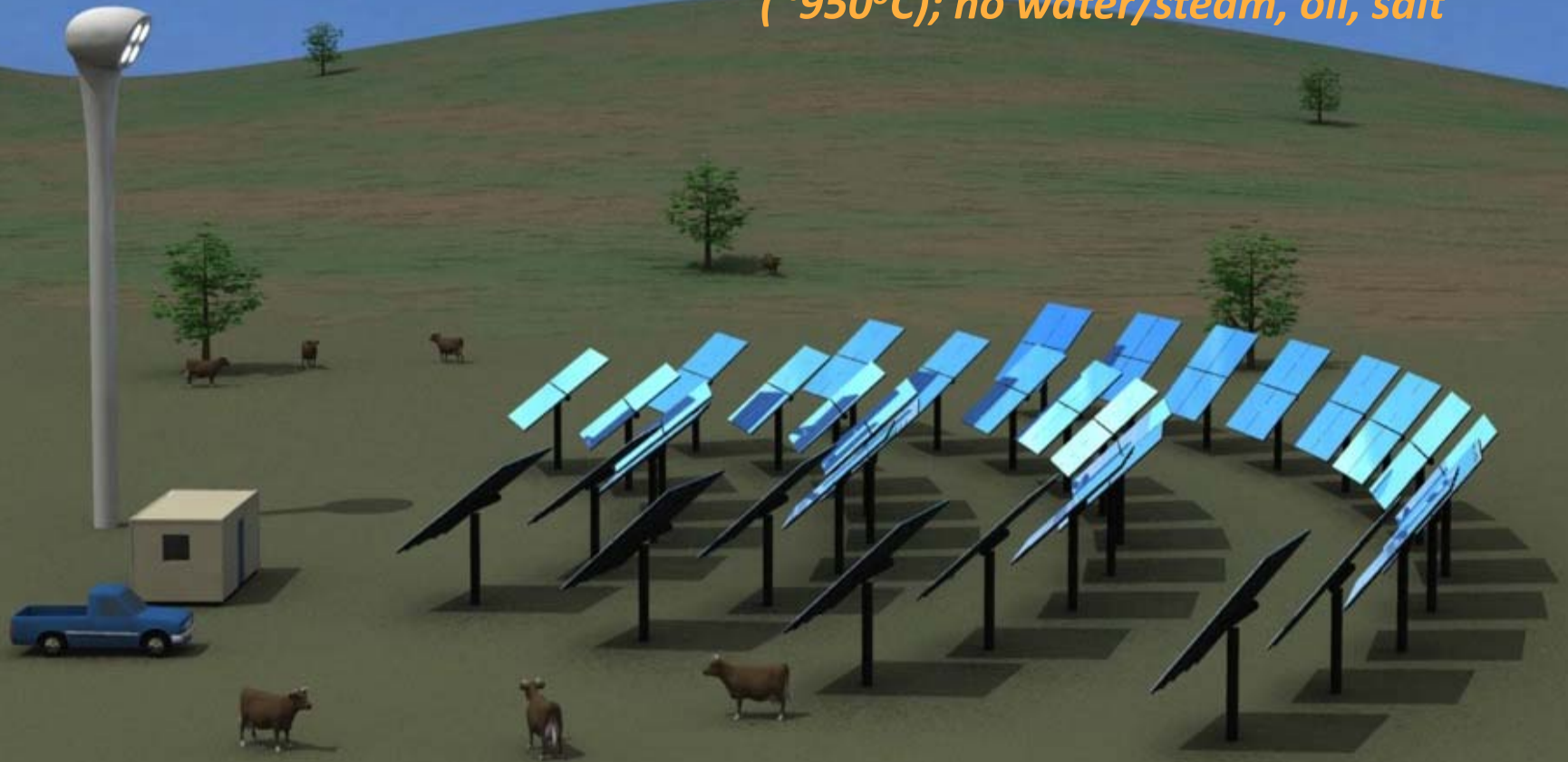
*"Clean energy is important **but...**
if it won't produce electricity
ALL the time, then what?!"*

***"But what good is 24/7
clean power if it can't
compete with conventional
power without subsidies?"***

Wilson's solution: modular power towers

24/7 "baseload" grid competitive or stand alone

- *India-produced, identical modules*
- *300 kilowatts each*
- *Uses compressed, super-heated air (~950°C); no water/steam, oil, salt*



Strictly Confidential

India: huge economic opportunity

Wilson CSP is tailor-made for India

- **Grid competitive** without subsidies
- **Guaranteed power 24/7**, not intermittent
- **Low-risk**, good bankability
- **Simple, low/medium skill** fabrication, operation
- **Off-grid, micro-grid** villages, industry, etc to **utility scale**
- Waste heat for **chilling, cooling, water purification, crop drying**
- **Low water use**; no water/steam, salts or oil
- **"Made in India" jobs!**
- Large **export revenue** opportunity
- **Significant grid benefits**

Wilson Solarpower Corporation

Mission: Competitive clean power without subsidies

- MIT high-tech spin-off company; Boston and Washington, DC, USA
- Owned by MIT, State of Massachusetts, private individuals
- World-leading Technology Development Partners:
 - German Aerospace Center (DLR)
 - WorleyParsons
 - Saint-Gobain
 - Oak Ridge National Laboratory
 - Sandia National Laboratory
- \$5 million, 3 years, US Department of Energy funding to develop a baseload CSP system that can compete with conventional power **without subsidies**

Presenting

Bruce N. Anderson, Co-founder, CEO

- Began solar career in 1973 with Masters degree at MIT
- 1980 Advisory Board Member of National Renewable Energy Laboratory (NREL)
- 1982 First recipient “Lifetime Achievement Award,” American Solar Energy Society
- Twice testified to US Congress on energy matters
- Member, MIT Corporation (Board of Governors)
- 35-year career CEO

Lifetime solar lessons learned

- ***KISS** is paramount – Keep It Simple*
- ***New lowest cost paradigm:** factory production + central power, e.g., solar farms, wind farms*
- ***Cultural compatibility** is essential (environmental, visual, grid benefits, bankability, local jobs, skill level, etc, etc)*
- ***Strong technology pipeline** to maintain competitiveness*

*Power **PLUS** waste heat for chilling,
water purification, process steam, etc*



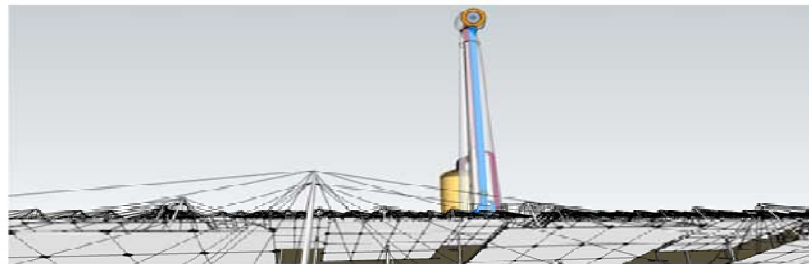
Strictly Confidential

US D.O.E. funded

Brayton-Cycle Baseload Power Tower CSP System

Phase 1 Report, US Department of Energy

July 2011



Funding Opportunity Announcement Number: DE-FOA-0000104
Baseload Concentrating Solar Power Generation

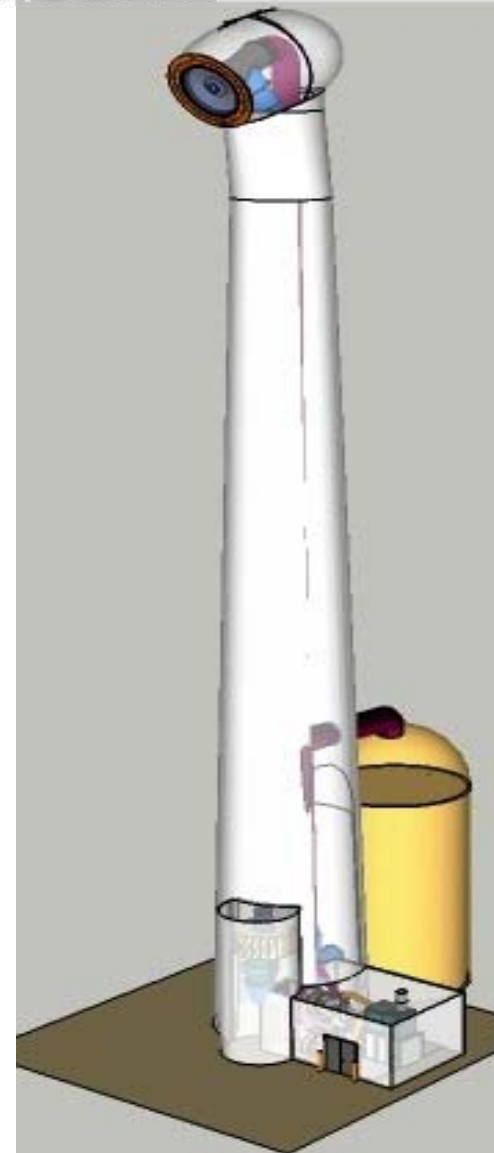
Recipient:	Wilson Solarpower Corporation
Award Number:	EE003587
Project Team:	Wilson Solarpower, DLR, IZKlein, WorleyParsons, Solaflect Energy
Contacts:	Bruce Anderson Phone: 617-290-9913 Email: Bruce.Anderson@WilsonSolarpower.com

Proprietary Wilson Solar System™

BASELOAD: 300 kilowatts/module

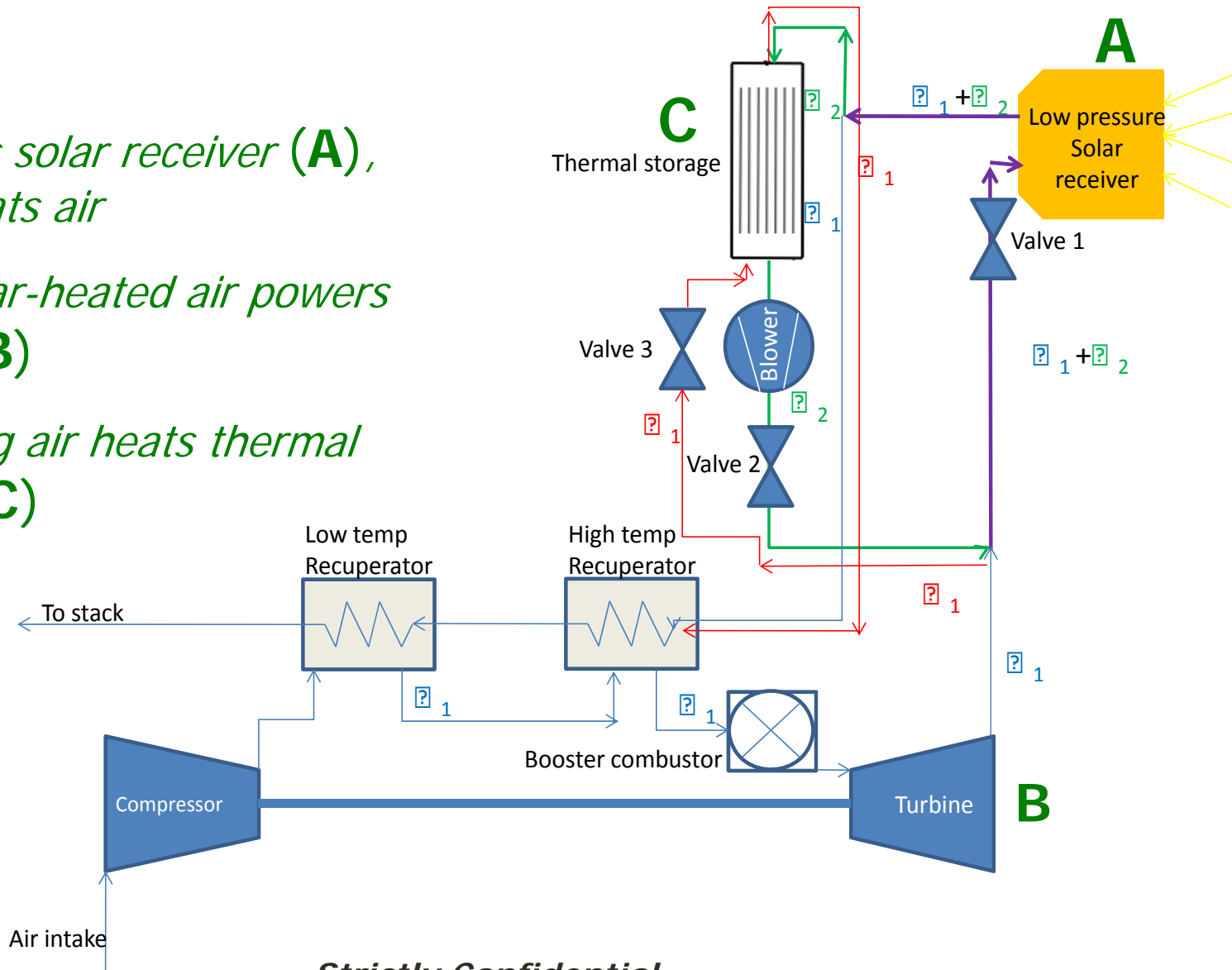
PEAKERS: 600 kilowatts/module

- ***Single units (< 1 MW)***
 - *Villages, industrial/commercial companies, military bases, islands...on-grid or off-grid/micro-grid*
- ***Multiple units (< 20 MW)***
 - *Towns, communities, developments, mines*
- ***100s of units (20-100s MW)***
 - *Central power*



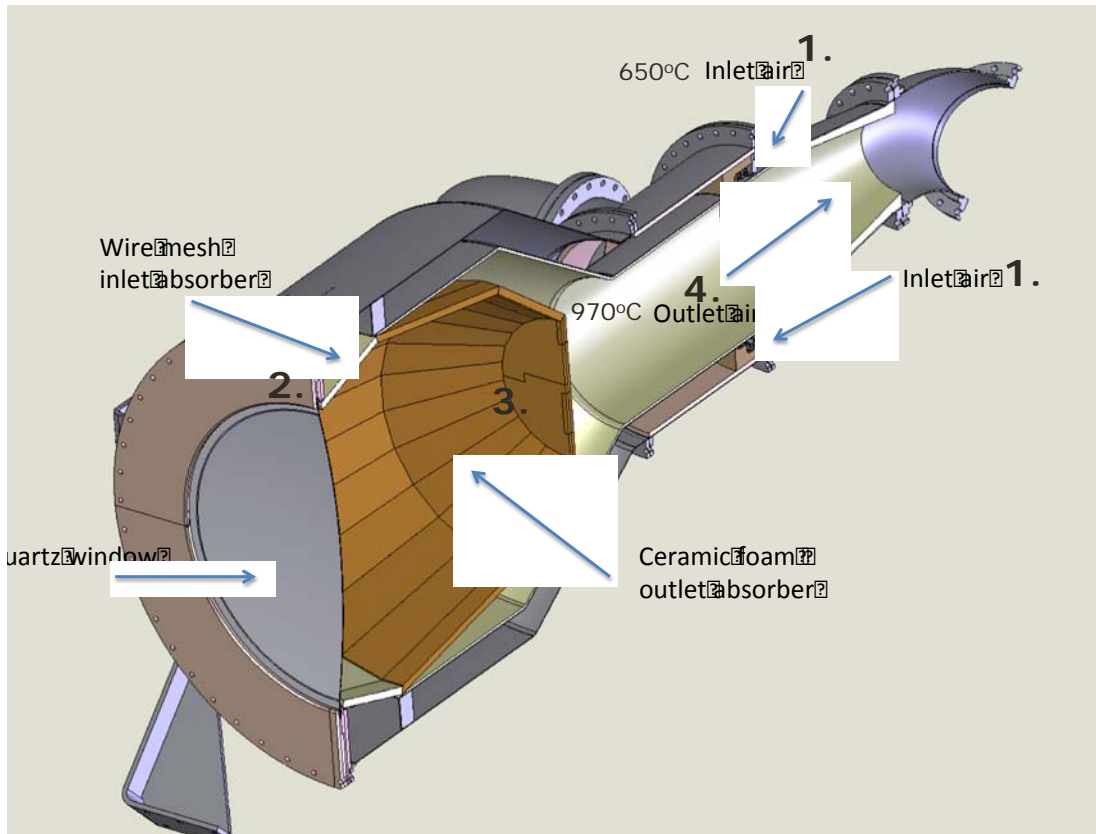
Simple Proprietary System

- *Sun heats solar receiver (A), which heats air*
- *Some solar-heated air powers turbine (B)*
- *Remaining air heats thermal storage (C)*

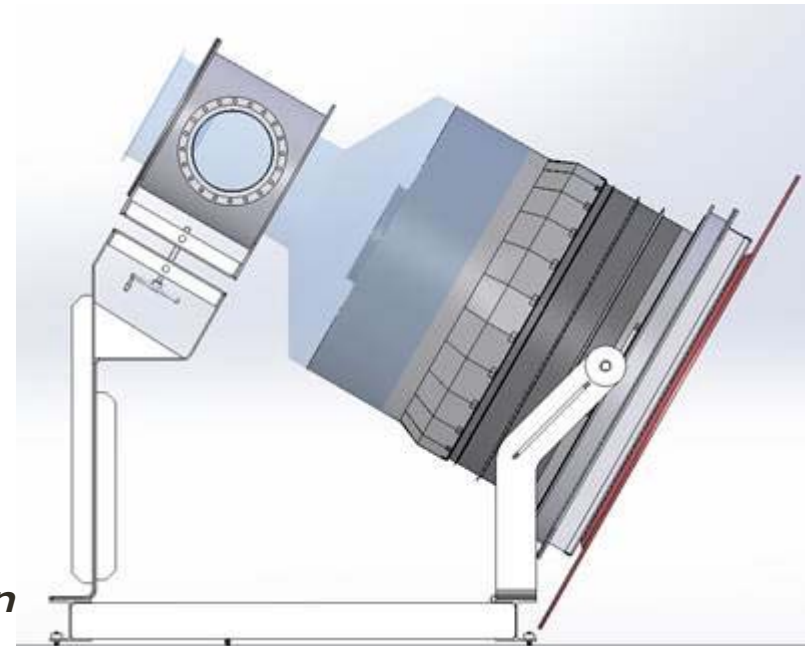


Proprietary Wilson Solar Receiver™

German Aerospace Center development partner



1. Inlet air flows around the perimeter of the receiver
2. Enters at the front of the receiver near the window
3. Passes through the ceramic absorber
4. Exits through the rear.



Wilson Solar Receiver™

Testing by Sandia National Laboratory, National Solar Test Facility



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Wilson Thermal Storage™

Saint-Gobain development partner; 100+ year-old technology

- ***Low cost:***
 - *~15% of batteries*
- ***Locally-made insulated steel tank filled with fist-size ceramics or firebrick***
- ***Solar-heated air blown from top to bottom to heat up***
 - *Air blown from bottom to top to power turbine*
- ***~3m diameter, 12m tall***



Proven commercial turbine packages

Also locally-made towers (~35m) and
third-party heliostats (1.5 - 2 hectares)



- *Simple, operation-ready*
- *10 years between overhauls*
- *Fuel flexible*

Cost analysis process

- Model the productivity of the system (by DLR)
- Determine current component costs plus site/BOP costs using vendor quotes, BOM estimates, & public information for 100 MWe plant (by whole team)
- Extrapolate costs to 2 GW of cumulative deployment using cost learning curve analysis assuming 10% cost reduction for each doubling of cumulative factory production, 5% for commodities such as piping (by Wilson and team)
- Determine current O&M costs using published & anticipated MTBFs, SOPs for power plants (by whole team)
- Extrapolate O&M costs to 2 GW of cumulative deployment experience (by whole team)
- Run the SAM model using the above as inputs, plus additional data from DOE (by WorleyParsons)

See Wilson's *Brayton-Cycle Baseload Power Tower CSP System, Final Report Phase 1*, DOE CSP Project, July 2011, beginning on Page 31, for detailed costing information

MIT-invented Proprietary IP

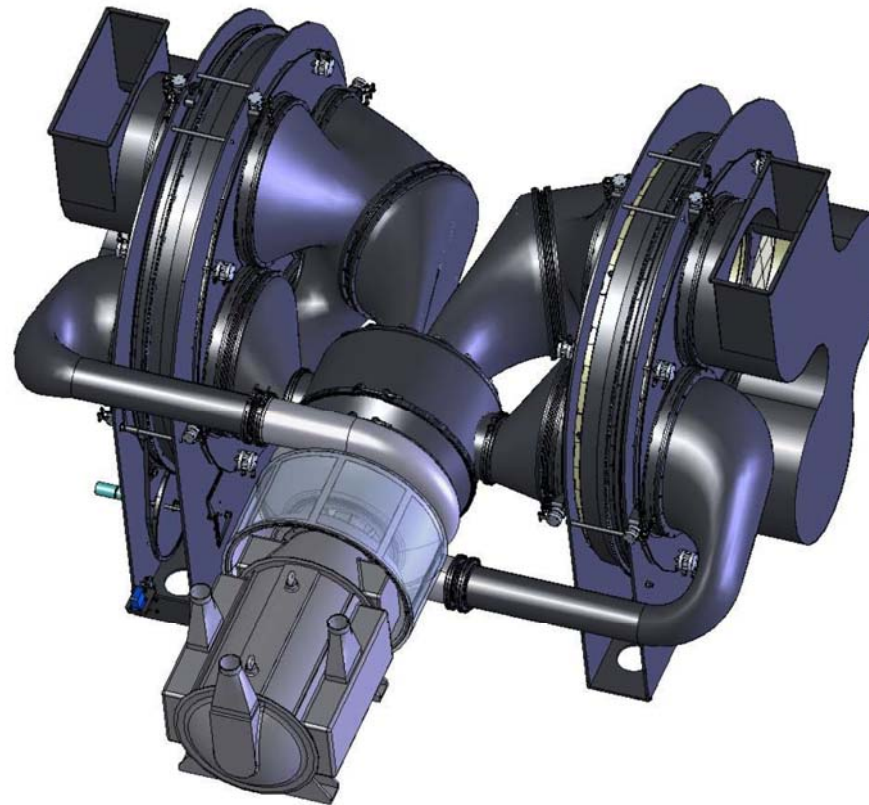
Wilson's strong technology pipeline

1. Path to even lower cost CSP power <4 Rupees/kWh
2. Secondary applications (4 years)
 - Ultra-efficient **engine** for distributed power, trucks
 - Ultra-efficient **heat exchanger** for industrial waste heat recovery

Wilson Microturbine™

Reduce CSP CAPEX by up to 25%

- *~50% fuel/electricity efficiency (28-33% typical)*
- *\$1 million US government funding to develop ceramic rotors this year with CoorsTek, Oak Ridge National Lab*



Strictly Com

Wilson Heat Exchanger™

World's highest temperature heat exchanger

Alcoa aluminum re-melt furnaces

Praxair oxygen production

Wartsila for fuel cells

French Petroleum Institute
biomass waste heat recovery
to power a turbine



Jobs jobs jobs in India

% of Wilson system manufacturable in India

Component	Immediate	Near term	% of total cost
Turbine package			16%
Heliostats			29%
Receiver			2%
High temperature recuperator			4%
Storage			21%
Pipes			6%
Valves			2%
Blower			4%
Bottoming cycle (ORC)			3%
Tower			3%
Balance of Plant and site prep			11%
Manufacturable in India	62%	100%	100%

Note: Red denotes not made in India; green denotes made in India

Significant grid benefits

In addition to peak or baseload firm dispatchability

- **Reduces costs of transmission/distribution**
- **Rapid, minute-by-minute** load following up/down, leveling, demand response, system balancing
- **Reduces spinning reserves** requirements
- **Voltage and frequency regulation**
- **Highest capacity value**, 100% year round reliability from module redundancy vs planned, unplanned outages of conventional power plants

Wilson CSP expands market size

Does not need large, perfect, isolated sites

- **Wind, PV, biomass project developers** as customers
- **Village, micro-grid**, chilling, water purification
- **Scarce water** locations
- **Distribution**, not transmission, connection
- **Small sites**, irregular terrain, expensive land
- **Mines, islands**, military bases, end-of-grid
- **Point of use**, behind meter
- **Landfills** and other brownfields
- **Etc, etc**

Huge business opportunity

Seeking a single major company to lead and drive commercialization in India

- Company naming/branding for India
- Co-engineering for local manufacturability/deployment
- Sole manufacturing rights
- Sole commercialization rights
- Full support from Wilson

Testimonials – this is big

“The right direction and the future of CSP.”

Arnold Goldman

A founder of Brightsource CSP, decades-long CSP visionary and leader

“A home run.”

Dr. Fred Morse

“Mr. CSP”

Directed US Department of Energy’s solar program under both President Carter and President Reagan

“I cannot remember when DOE has added funding to an existing CSP award”

Wilson’s US Department of Energy Financial Manager after DOE awarded Wilson additional funding

"Smartest approach to CSP I've seen"

"If it works at the price points Wilson is targeting, AES is a customer."

Robert F. Hemphill

President and Chief Executive Officer at AES Solar Power and co-founder of the AES Corporation

Fortune 150 worldwide power-plant developer investing \$1 billion in solar energy projects

Also

- "Other than CSP, there is no dependable **24/7** clean power technology"*
- "Current CSP is too complicated and expensive"*

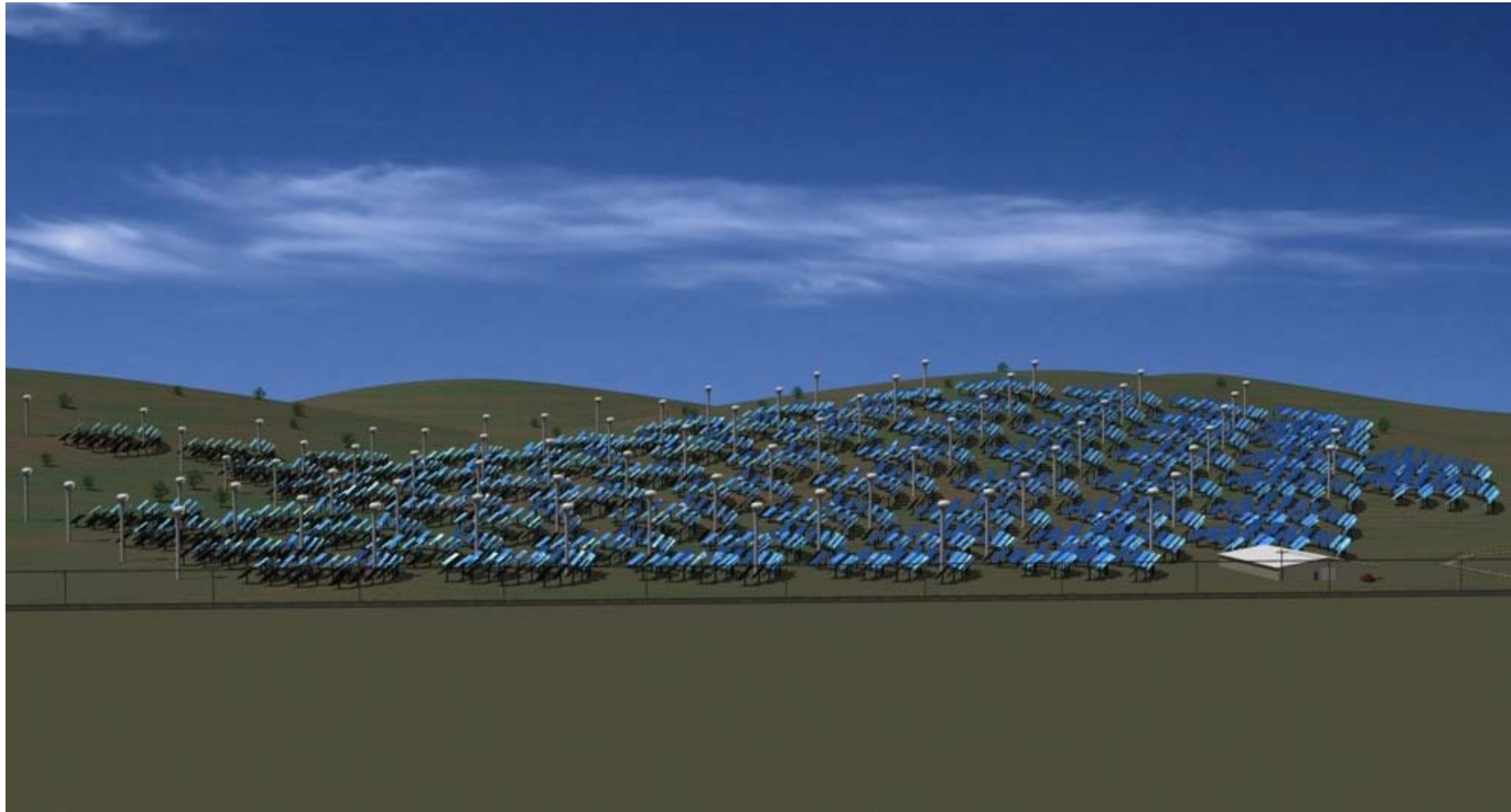
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