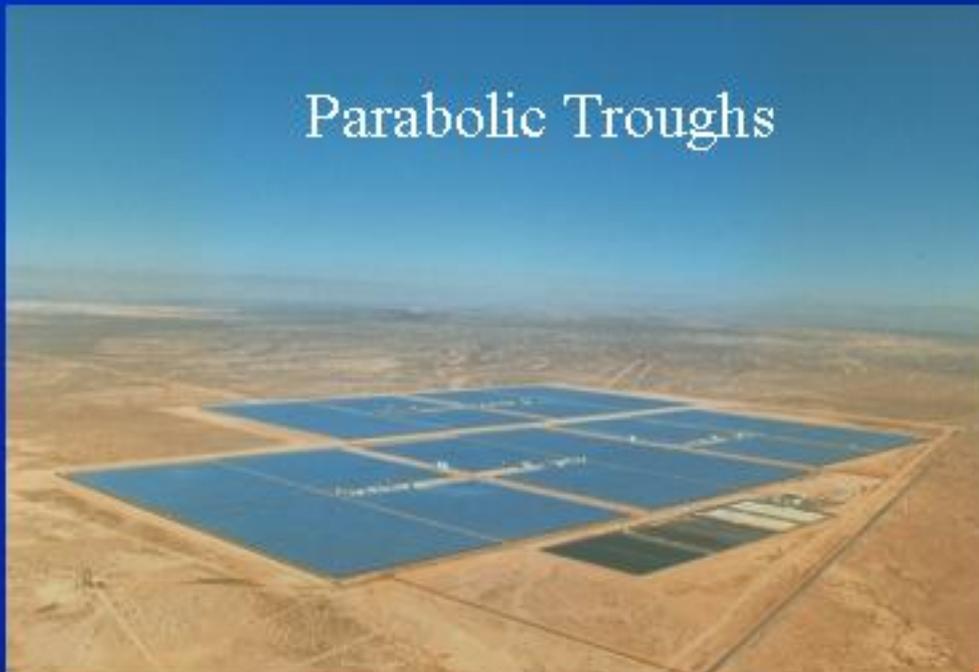


Commercialization and Outlook of CSP Technologies in the US

John Myles – Gilbert Cohen
Duke Solar



Concentrating Solar Power (CSP) Technologies



Who makes up the CSP industry

- ❑ Comprised of 18 companies who design, sell, own, and/or operate energy systems and power plants based on the concentration of solar energy.
- ❑ Includes equipment manufacturers , project developer, independent power producers, and others
- ❑ Four of the 18 are “Fortune 500” Companies

CSP industry is taking vigorous steps to accelerate commercialization of the technologies

Concentrating Solar Power is ...

- ❑ Proven, reliable technology
 - 354 MW operating successfully over 10 years
- ❑ Dispatchable
 - By use of thermal storage or hybrid operation
- ❑ Competitively priced solar power
 - As low as 10 ¢/kWh now
 - Predict 5 ¢/kWh in 10 years
- ❑ A near-term solution
- ❑ Clean and environmentally friendly



CSP Current Project Activity

- ❑ CSP industry investment → \$ 90 to \$ 100 million (excludes project equity and other financing)
- ❑ Projects Locations
 - NV, NY, CA, TN, NC, and SC
 - Southwest region
 - International – GEF projects, Spain and others
- ❑ Short term Goals
 - 1000 MW grid connected and 5 million square feet of building-integrated systems



*POWER ROOF UNDER CONSTRUCTION
RALEIGH – North Carolina*







*CSP compilation video
available on the web*