flux energy gs

Community-Scale Solar Power, day and night

Can CSP Be Base-load? Thermal Storage Update

Thursday, May 20, 2:00pm to 3:30pm

Fundamentally, Solar Energy is not viewed as a Base-load energy source by the nature of its intermittency, but emerging storage technologies may evolve this perception. Concentrating Solar Power (CSP), by definition, implies focused heat.

Heat is not only the oldest form of harnessed energy, but outside of fuels, is one of the easiest and most efficient forms of energy to store. This session will bring the audience current information on the state of thermal storage technologies, provide objective arguments (pro and con) to using Storage and discuss the merits for integration of Storage with CSP for the creation of a dependable, viable Solar Base-load solution.

Moderated by:

Robert Orsello P.E. **Triage Corp** **CEO / Principal Engineer**

Flux Energy GS **Managing Member**

T! ™ Triage Corp

The Sun Shines!

Panel Session Format

1.) Introduce five outstanding and highly accomplished Panelists, with appreciation for their time.

2.) Provide 10 minutes each to weigh in on the topic of Thermal Energy Storage in conjunction with Concentrating Solar Power.

3.) Following the presentations, 15 minutes will be set for questions that are prepared and directed to the panel by the moderator.

4.) Moderator questions will be followed by 15 minutes of attendee questions for the panelists.

5.) Session will close with a 5 minute close by the moderator.

Result -Detail the unique and common aspects for the various CSP formats
-Highlight available and horizon technologies of CSP Storage

with respect to concentration, medium, temperature, life, configuration and performance.

It is important to not only discuss the integration of Storage to CSP, but of Storage and CSP to the land and population within the regions of its application.

Panelists in Order of Presentation

Mark Mehos

Principal Program Manager – Concentrating Solar Power **NREL**

Tim Connor

Vice President of Engineering **Solar Reserve**

Anoop Mathur

CTO **Terrafore**

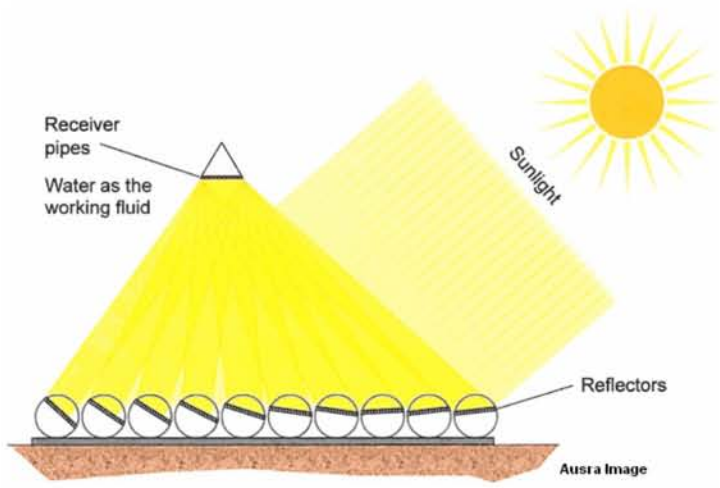
Pat Phelan

Professor of Mechanical & Aerospace Engineering **Arizona State University**

Patrick O'Grady

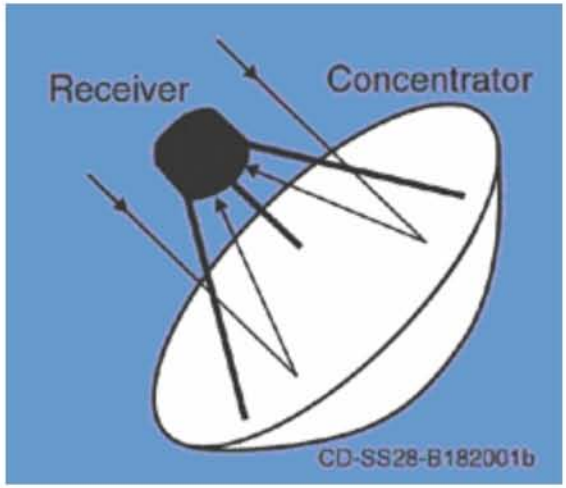
Reporter **Phoenix Business Journal**

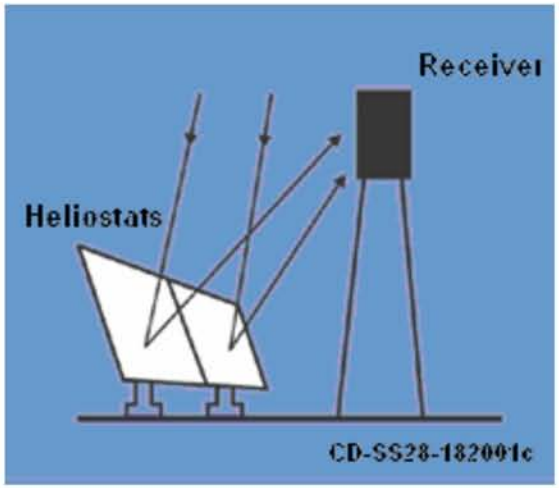
Primary CSP Thermal Technologies



← Linear Fresnel

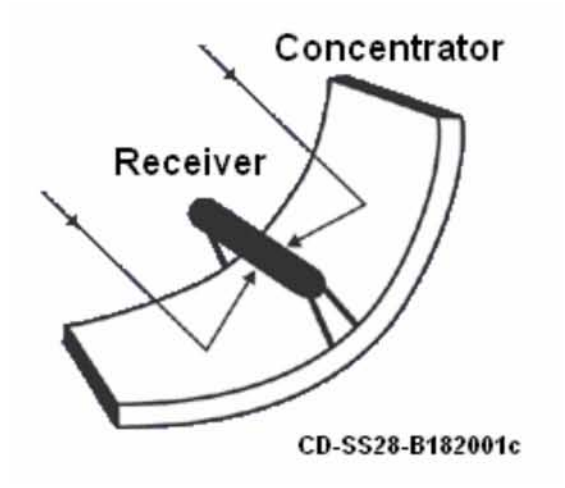
Dish →





← Tower

Dish →



Images shamelessly copied: thx to DOE, Sandia, NREL, Ausra, SES, Skyfuel, Abengoa

Actual CSP Applications

← LF

DISH →

← Tower

Trough →

Solar Delivery of Energy