

# 2015 Accomplishments

Division 6000 | Organization 6100

## Sandia Solar Glare Hazard Analysis Tool (SGHAT)

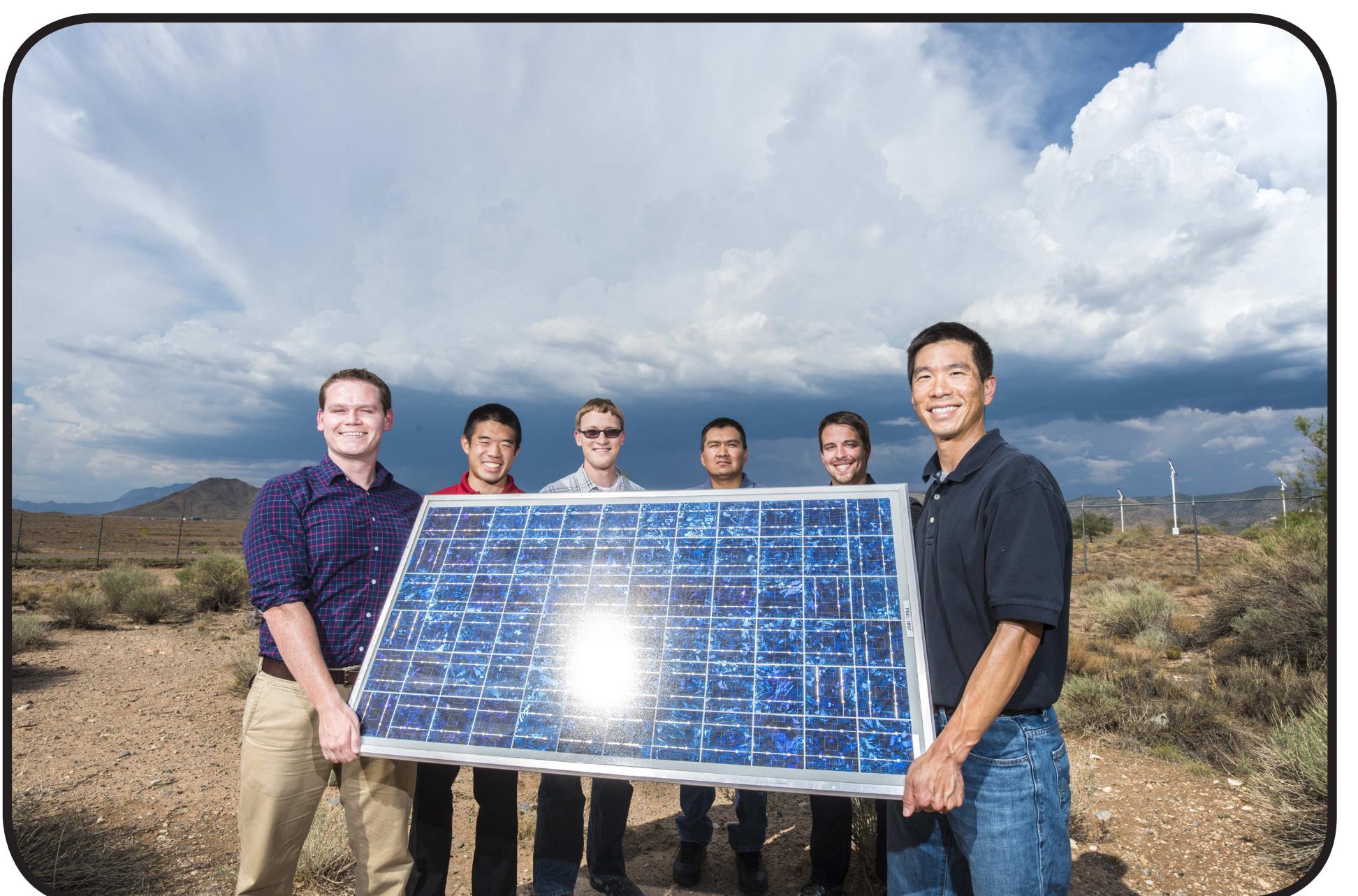
Sandia's Solar Glare Hazard Analysis Tool (SGHAT), which won a 2013 R&D100 Award, has been used by more than 100 airports in nearly 50 countries to safely deploy photovoltaic systems while mitigating associated glare hazards. In FY14, Sandia helped to address glare issues reported by pilots who were flying over the world's largest concentrating solar power plant (Ivanpah). The use of SGHAT is now required by the Federal Aviation Administration and the DoD for proposed solar energy installations at all federally-obligated airports and DoD aviation operations.

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Complaints of glare from pilots flying over the Ivanpah Solar Electric Generating System were evaluated by Sandia and found to be caused by heliostats in standby mode. Sandia worked with NRG and Brightsource Energy to resolve the problem.



Solar Glare Hazard Analysis Tool (SGHAT) Team.



Heliostats in standby mode illuminate regions next to the receiver at the Ivanpah Solar Electric Generating System. New aiming strategies, which minimize the number of heliostats in standby and spread out the aim points, were implemented based on Sandia's analysis to reduce hazards associated with glare and solar flux.