

## Project Summary

- Produce Cost Effective, Commercial Thermal Management Systems for PV cells.
- Produce Solar Panels with Stable Power Output
- Produce Commercial Grade Solar Installation of Over 40% Efficiency

## Approach

- Product Development
  - Optimize individual cooling subsystems
  - Integrate and optimize cooling system for worst case climatic scenarios
- Testing/Certification
  - Weather proof system
  - Conduct initial representative testing and optimize to meet/exceed current standards
  - Certify product through National Laboratories

## Project Impact

- Improve the Environmental Impact of Solar Industry by increasing efficiency & practicality of solar, while reducing the carbon and ecological footprint
- Expand the Practical Geographical Range of PV technology to include desert and arctic environments
- Enable Commercial use of High Efficiency Photovoltaic Cells
- Foster Global American Solar Manufacturing Dominance

## Milestones

- SET!
  - Achieve a Technology Readiness Level of 5 by Set! Competition.
  - Achieve a Manufacturing Readiness Level of 5 by Set! Competition.
- Go!
  - Achieve a Technology Readiness Level of 6 Go! Competition.
  - Achieve a Manufacturing Readiness Level of 8 Go! Competition.