

American-Made Solar Prize SUBMISSION FOR READY!



U.S. DEPARTMENT OF ENERGY

24x7-PV System

Efficient Bifacial 24x7 PV system - Sun lit on one side and clean burning fuel generated light on the other for no/low light operation

Keyword tags

Photo-voltaic systems, low light, power generation

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PARTNERS AND AMERICAN-MADE NETWORK

University of Texas, Austin

National Renewable Energy Laboratories (NREL)

<https://youtu.be/tHXh34SsuzE>

[Link to HeroX Ideation Posting \(if applicable\)](#)

SUPPLEMENTARY INFORMATION

FOUR QUESTION NARRATIVE WORD COUNT: 1255 total words

TECHNICAL ASSISTANCE REQUEST (2 pages, including images, will be made public)

Request for Support from National labs (NREL)

AND's 24x7-PV system is a unique system that utilizes the same PV system to generate power both during daylight and during night using artificially generated light.

We would like to use NREL characterizing the performance, power output and reliability of the bifacial modules and the early prototype 24x7-PV systems. AND has tested and characterized the bifacial flexible modules using sun-simulators that are not calibrated for commercial product specs. While the deviation from NREL testing is expected to be minimal, use of NREL tested and certified modules will help increase the dependability of our systems.