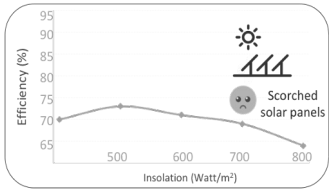
PeakPower Solar Technologies

Unlocking Peak Solar Power with Advanced Cooling Control Technology

We design, develop and licence advanced **PeakPower Solar Control Drive** technology to cool solar panels for sustained efficiency.

PROBLEM



Solar panels overheat, resulting in

- **unreliable access to energy,**
- **frequent power outages,**
- **increased payback time**.

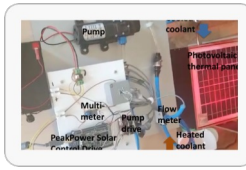
CURRENT PRACTICES

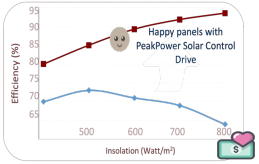
Watering to cool down the panels?!

Resources wasted! Results ineffective.

SOLUTION

PeakPower control drive, mounted on the pump, uses **advanced algorithms to adjust coolant flow and maintain the panels** at manufacturer-recommended temperatures for **sustained efficiency**, ensuring **faster returns on your investment!**





MARKET ENTRY PLAN

With Solar Prize 8's support, we aim to accelerate technology development, achieve our **first pilot demonstration** at TRL 8-9 **within a year**, acquire **our first customer by February 2027**, and expand our team.

TEAM

Current expertise

Deniz Kazancı, M.Sc.
Principal Project Manager, Strategic Partnerships

Birol Kılkış, Ph.D.
Solar Engineering Team Lead Advisor

- Over **20 years of solar engineering**
- More than **10 years of clean technology development** and **project management**

American-Made Network Current Contributors

POSITIVE DEVIANCY · THE UNIVERSITY OF ARIZONA CENTER FOR INNOVATION · ENCOLOR · WOMEN OWNED · ADL VENTURES

Past Contributors

Anticipated Contributors

GOALS

Environmental sustainability goals by 2033:

Saving 226.05 TWh **Electricity**

Saving $ 21.03 **Trillion**

cutting 156.05 **M tCO_2 emissions**

Commitment to Community Engagement:
Diverse hiring and selection of at least one **board member from underserved community**.

150,000 Licences Sold

Female College Graduate

4 year College Tuition

economically disadvantaged female student

Each female employee

economically disadvantaged female student

Big Sister match program

Our Solution to JEDI Barriers

PeakPower's Solar Control Drive boosts solar panel efficiency and power output, **overcoming barriers to adoption**. It **integrates smoothly** with existing solar systems and **community solar projects**, facilitating **operational efficiency** and **easy implementation** for **underserved communities** via **local partnerships** with **trade schools**, governments, and utilities.

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