



SELF-HEALING SOLAR CELLS

PROBLEM: SOLAR CELL CRACKING

Solar cells are **thin, fragile, & susceptible to cracking** from their long stressful life starting with:



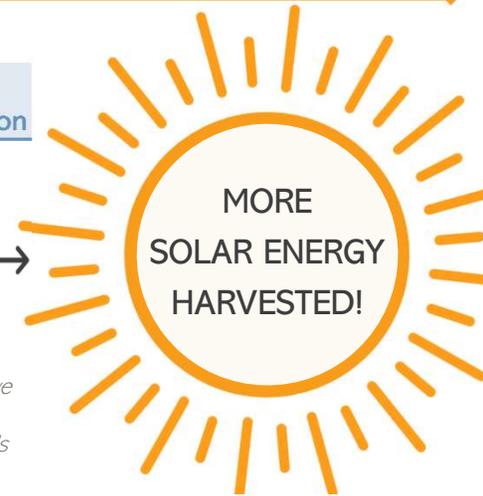
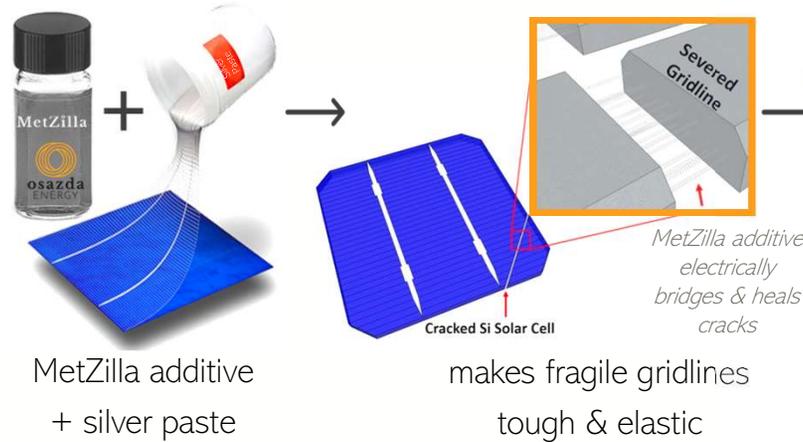
Followed by **decades** of exposure to stresses from:

- Wind 🌬️
- Hail 🌨️
- Rain ☁️
- Snow ❄️
- Ice 🧊
- Hurricanes 🌪️
- Temp. cycles ⚠️
- Etc... 🐕 →



SOLUTION: MetZilla ADDITIVE FOR SILVER PASTES

For 100MW Solar Farm → MetZilla Materials Cost: **\$ 1.5 k**
 Potential Increase in Energy Revenues: **\$ 2.7 Million**



minimizing losses from cell cracking

PLAN: ↑ DURABILITY & ↑ EFFICIENCY

- **READY!** : Demo. potential for ↑ efficiency. Conduct customer discovery to refine milestones.
- **SET!** : Develop partnership with cell manufacturer & test on their cells. Show ↑ cell efficiency.
- **GO!** : Scale up testing, quantify value-added, negotiate contract with cell manufacturer!

WE ENGINEER AN ADDITIVE FOR PASTES TO IMPROVE SOLAR PANEL DURABILITY

John Chavez Lead 3 tech startups to successful exits	Dr. Han 20 patents. 25+ years R&D experience	Dr. Antoniadis Former CTO of DuPont PV Solutions	Dr. Jeffries Solar specialist, leads go-to-market strategy	Andrea Garcia Company creation specialist	Andre Chavez Chief Engineer, Leads product engineering	Brian Rummel Chemist, leads new paste formulations