



Team Lunexus

DoE Solar Challenge 6: Solar Cell Recycling



U.S. DEPARTMENT OF ENERGY

Problem / Opportunity

- PV Recycling must progress
 - Landfill concern / public perception
 - Helps solve supply constraints
 - Necessary for circularizing economy (Earth & Space)
- Recycling process currently uses industrial chemicals
 - Produces waste stream
 - Expensive logistics of consumables disproportionately affects remote communities



Team Lunexus Solution

- Energy based system of separating metals and silicates
 - Eliminates toxic chemistry and consumable expenses
 - Enables virtuous “dogfooding” of PV
- Set! Phase: Design & Prototyping
- Go! Phase: Experimentation with Georgia Tech
- JEDI target is underpowered US territorial islands

