

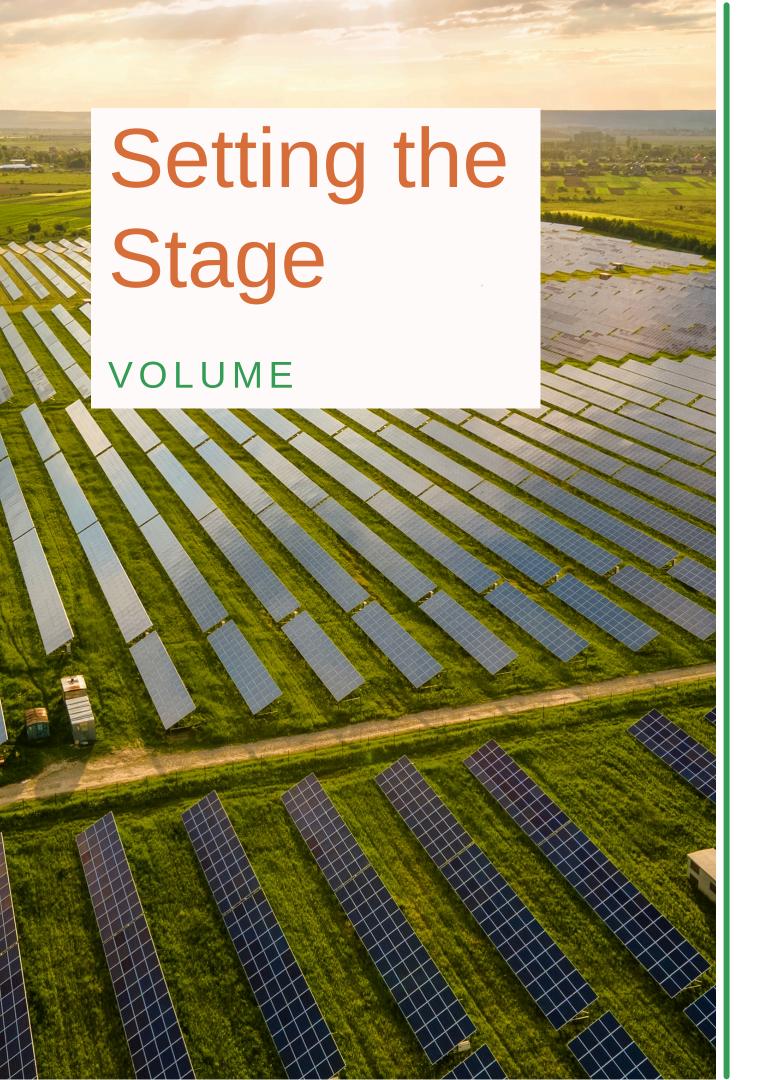
pv magazine USA Week 2024

SOLAR PANEL RECYCLING: DEMAND, TECHNOLOGY & SUPPLY CHAIN

Day 3 October 24th, 2024

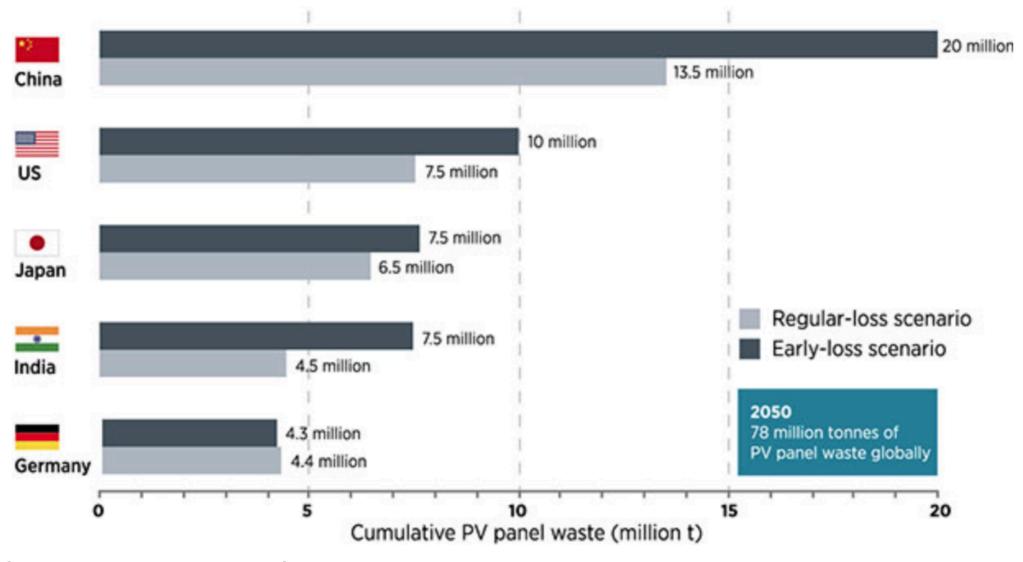
Brett C. Henderson CEO, Co-Founder (SPR) solarpanelrecycling.com



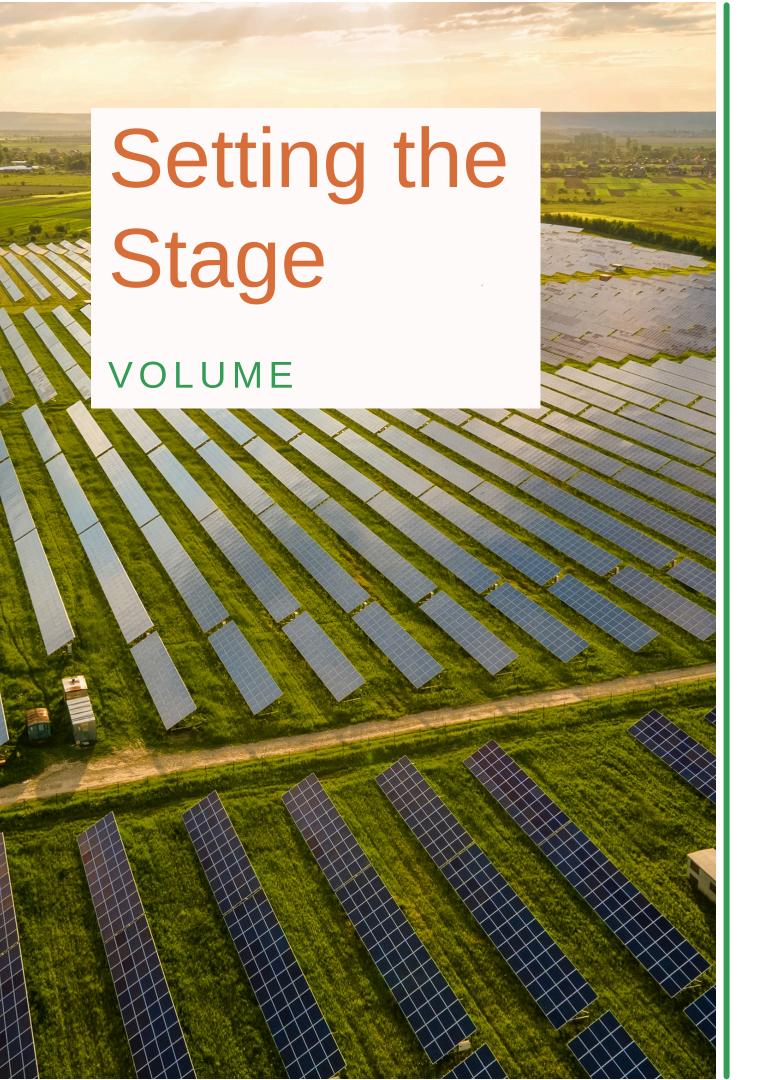


BY 2030 (USA): 1 MILLION TONS

BY 2050 (USA): 10 MILLION TONS



CREDIT: IRENA & IEA-PVPS



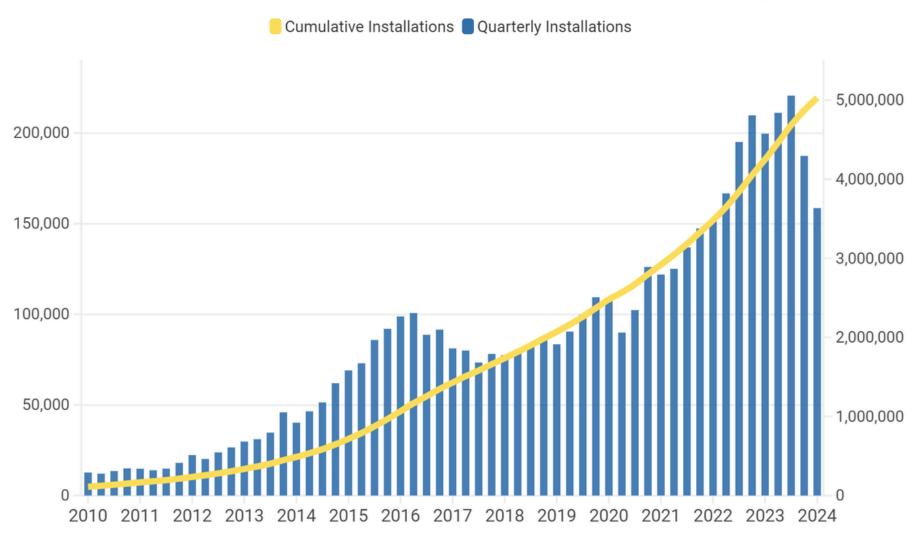
BY 2030 (USA): >1 MILLION TONS

BY 2050 (USA): >10 MILLION TONS

SPR ANTICIPATIONS

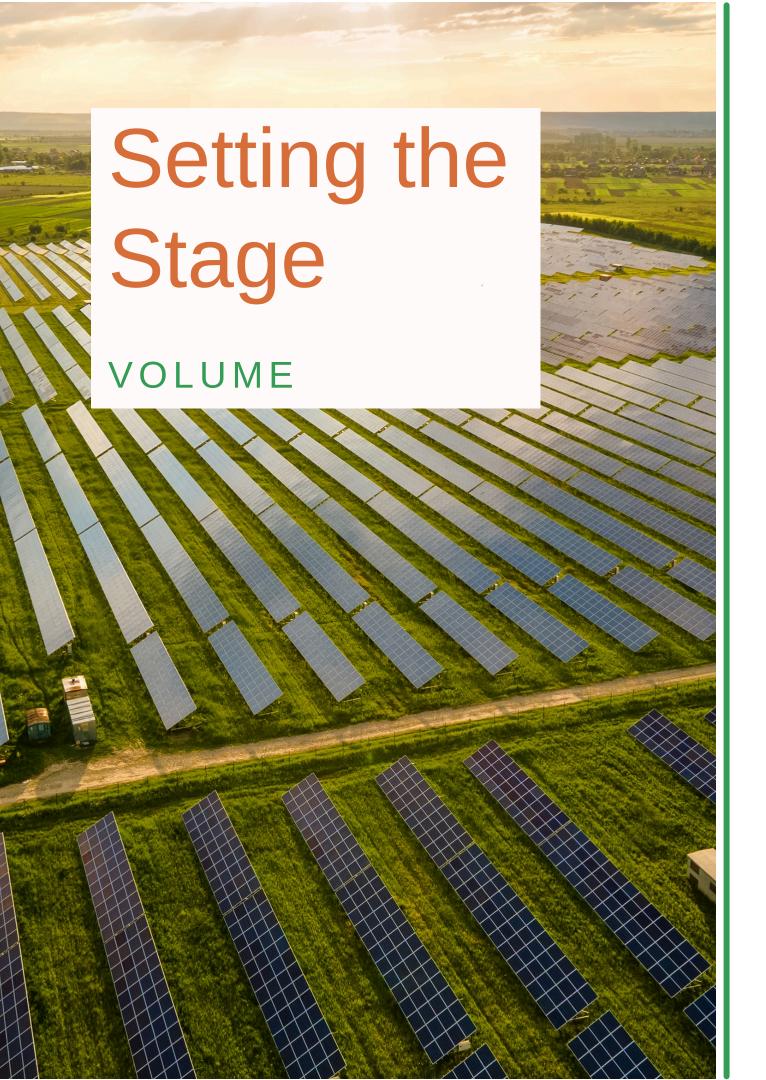
HIGHER VOLUME

Number of U.S. PV Installations Cumulative & Quarterly









BY 2030 (USA): >1 MILLION TONS

BY 2050 (USA): >10 MILLION TONS

SPR ANTICIPATIONS

FASTER TIMELINE



AVG YEARS
UNTIL EOL
(SPR)

YEARS TO EOL

EXPECTED PANEL LIFE

25-30

REPOWER/TECH UPGRADES

10-15

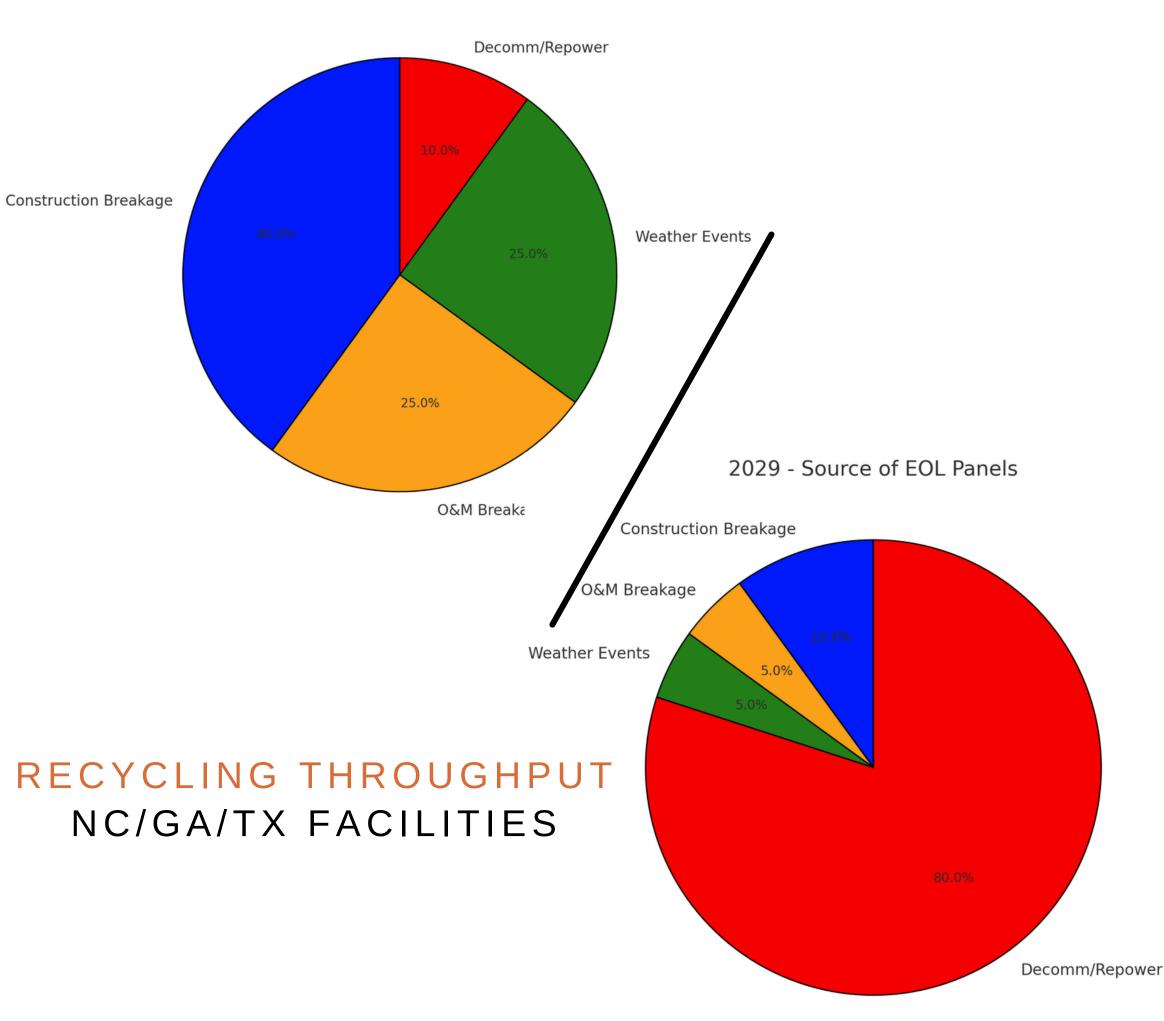
WEATHER EVENTS/O&M

1-30

TRANSPORTATION & CONSTRUCTION BREAKAGE

0

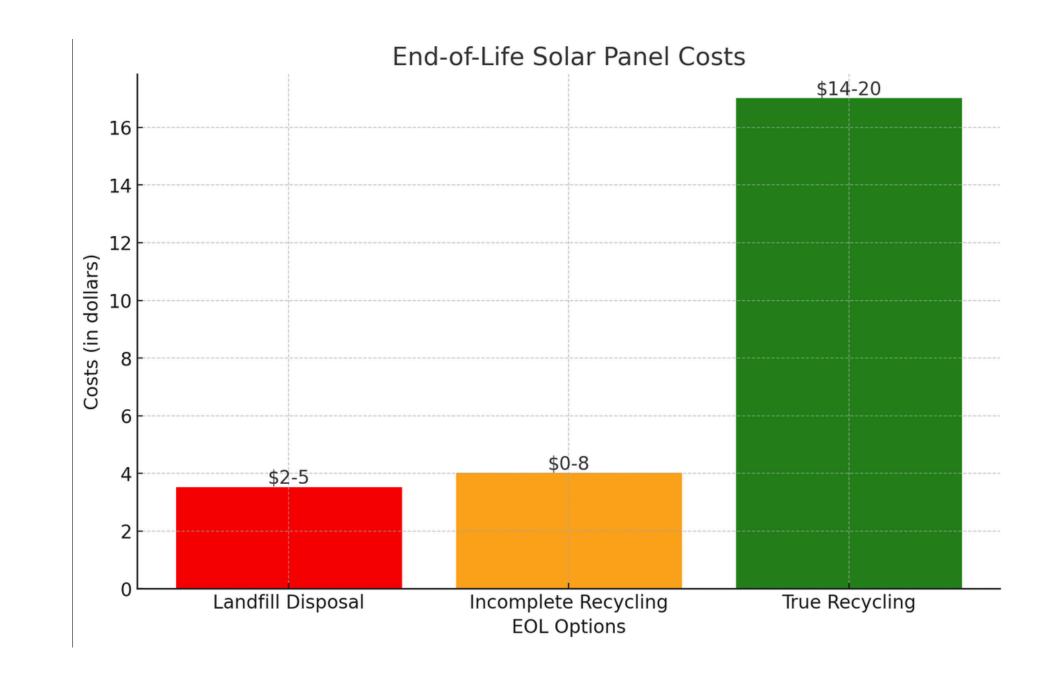
2024 - Source of EOL Panels





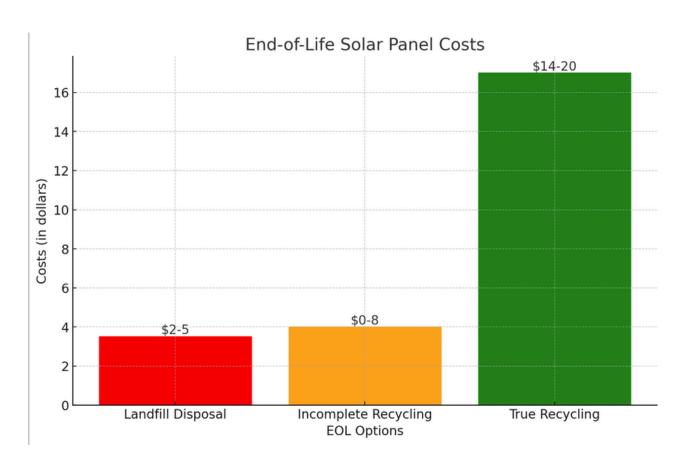
COSTS

CURRENTLY DRIVES MOST SOLAR PANELS TO LANDFILLS OR INCOMPLETE RECYCLERS IN LIEU OF TRUE RECYCLING



RECYCLING DEMAND

(+) DRIVING FORCES





42%

cost decrease in last 36 months

TECHNOLOGY ADVANCES ECONOMIES OF SCALE NEW SUPPLY CHAIN MARKETS REGIONAL FACILITIES/TRANSPORTATION

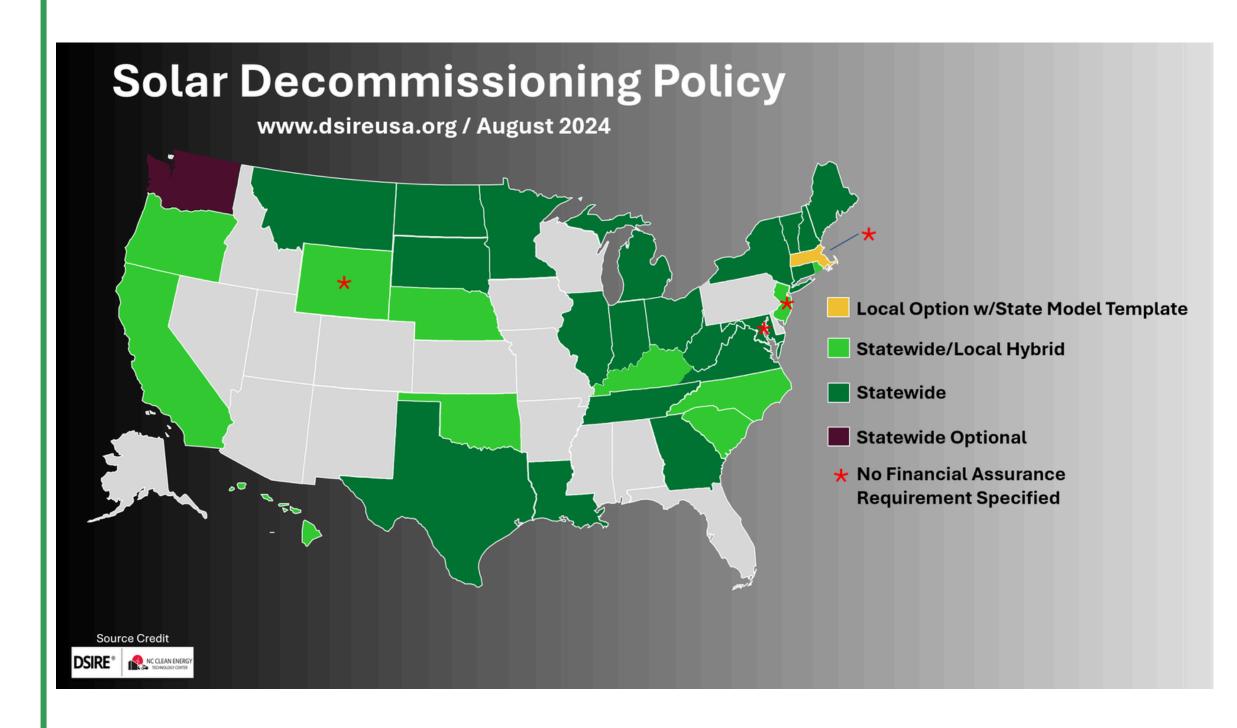
RECYCLING DEMAND

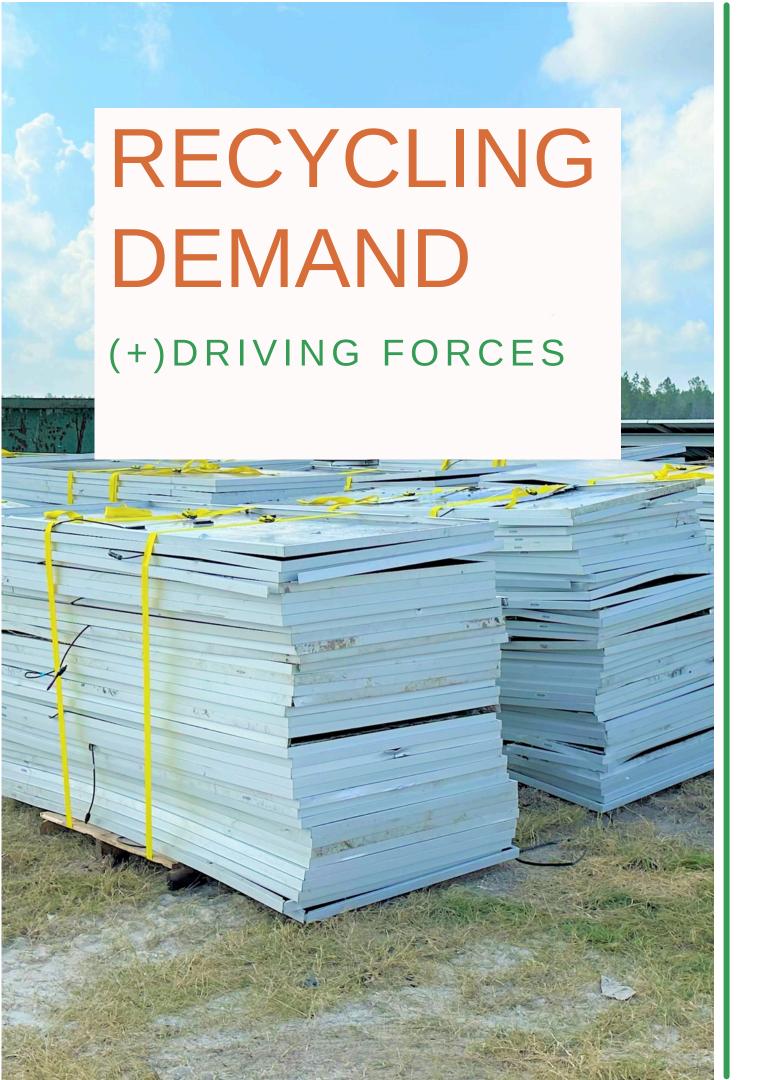
(+) DRIVING FORCES

EOL POLICY & SEIA LEADERSHIP

MOSTLY BI-PARTISAN AT STATE LEVELS LANDFILL CAPACITY (EX: NC 10 YEAR)

EPA: HAZARDOUS TO UNIVERSAL CLASSIFICATION SEIA: NATIONAL PV RECYCLING PROGRAM & CERT





COMMUNITY ENGAGEMENT & MISCONCEPTIONS

CLEAN ENERGY OPPONENTS
(COMMENTS FROM LINKEDIN & NEWS ARTICLES OF STORM DAMAGE)

"SOLAR CANNOT BE RECYCLED AT END-OF-LIFE"

"EOL SOLAR PANELS ARE CONTAMINATING OUR WATER & AIR"

"ITS NOT CLEAN ENERGY IF THEY BURY
IT IN THE LANDFILL"

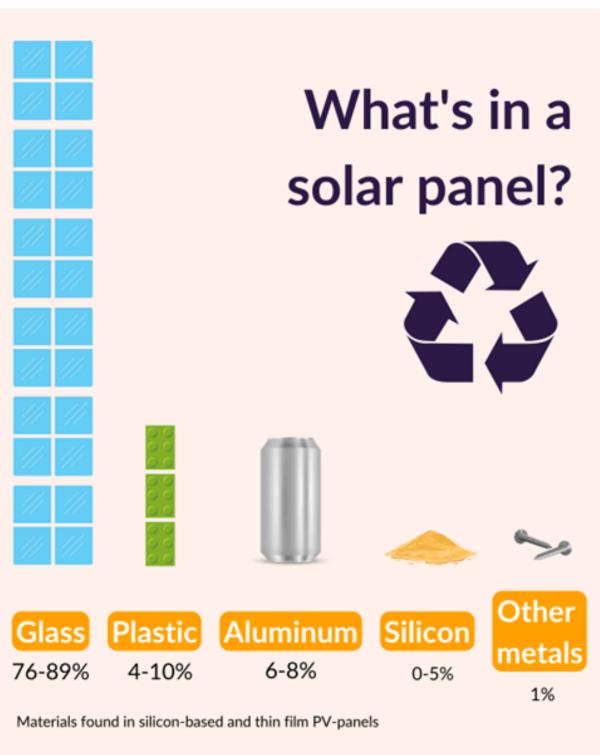
ENVIRONMENTAL STEWARDSHIP

ESG/CLEAN ENERGY THROUGH EOL EDUCATION & OUTREACH OPTIONS FOR INDUSTRY TO RECYCLE



TRUE SOLAR PANEL RECYCLING

THE CLEAN SEPARATION AND RECOVERY OF ALL MATERIALS WITHIN A PV MODULE, INCLUDING ALUMINUM, GLASS, SILICON, METALS, AND PLASTICS TO BE RE-INTRODUCED IN THE SUPPLY CHAIN.



CREDIT: LIGHTSOURCE BP



TO OBTAIN CLEAN COMMODITIES

MECHANICAL THERMAL METALLURGICAL

HIGHER PURITY=MORE APPLICATIONS

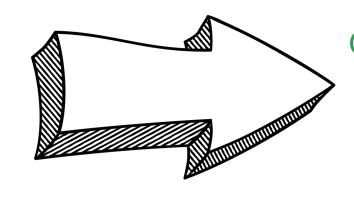
SPR TECH RAPID ADVANCES



CURRENT: APPLICATIONS IN VARIOUS SUPPLY CHAINS

OPPORTUNITIES: ONSHORING OF SOLAR MANUFACTURING INCREASES

GLASS CULLET SILICON ALUMINUM METALS



COMPONENTS FOR
US SOLAR
MANUFACTURING

Contact Information



+1-888-RE-PANEL

INFO@SOLARPANELRECYCLING.COM
RECYCLING PLANTS IN: **NC - GA - TX**WWW.SOLARPANELRECYCLING.COM

BH@SOLARPANELRECYCLING.COM

FIND US ON

