

METech RECYCLING

Full-Service Solar & Energy Infrastructure Recycling

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The Growing Need

- Rapid growth
- Aging assets
- Repowering
- Need for recycling



Solar PV Modules



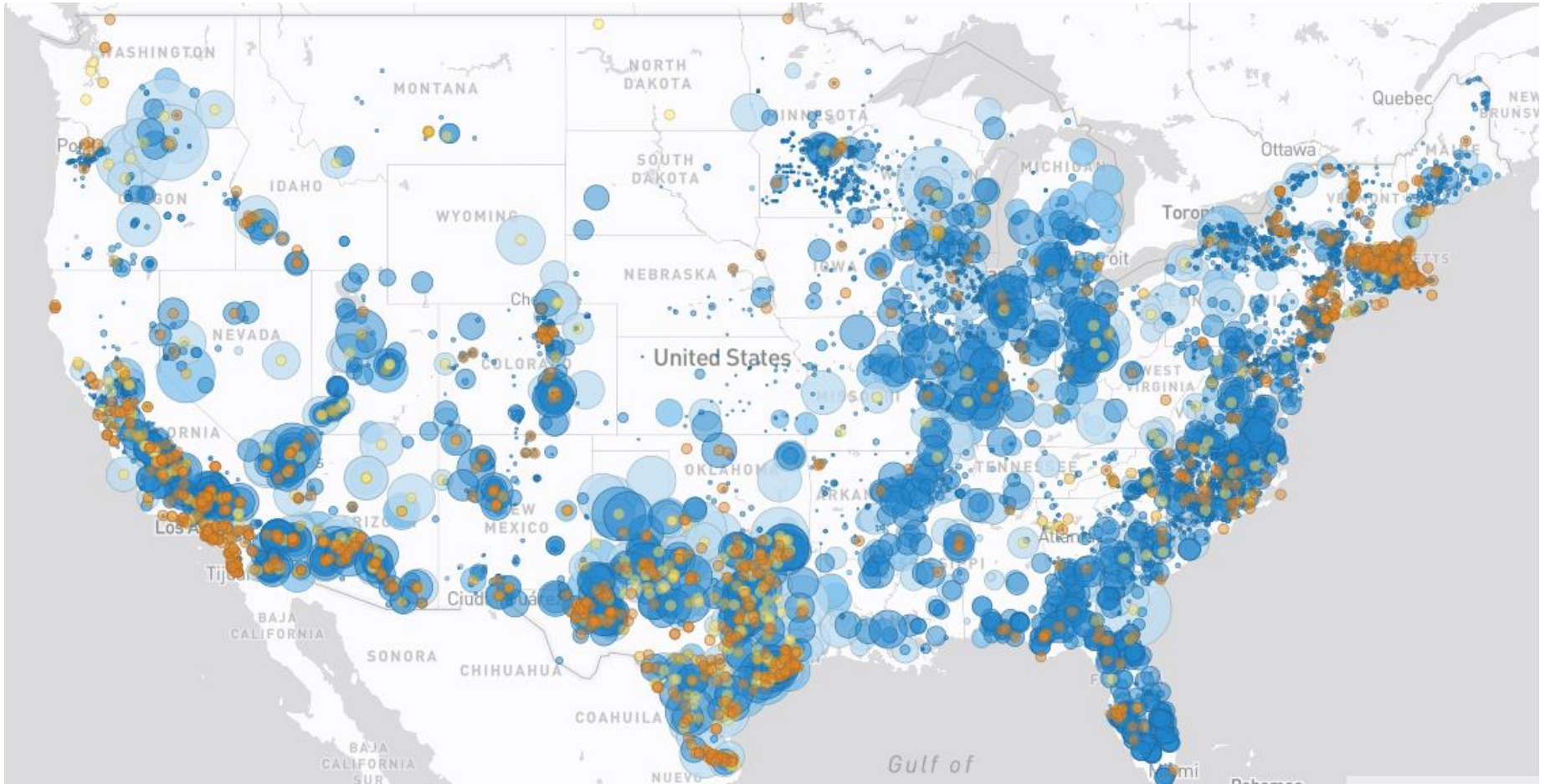
Battery Energy Storage Systems (BESS)



Electrical Infrastructure

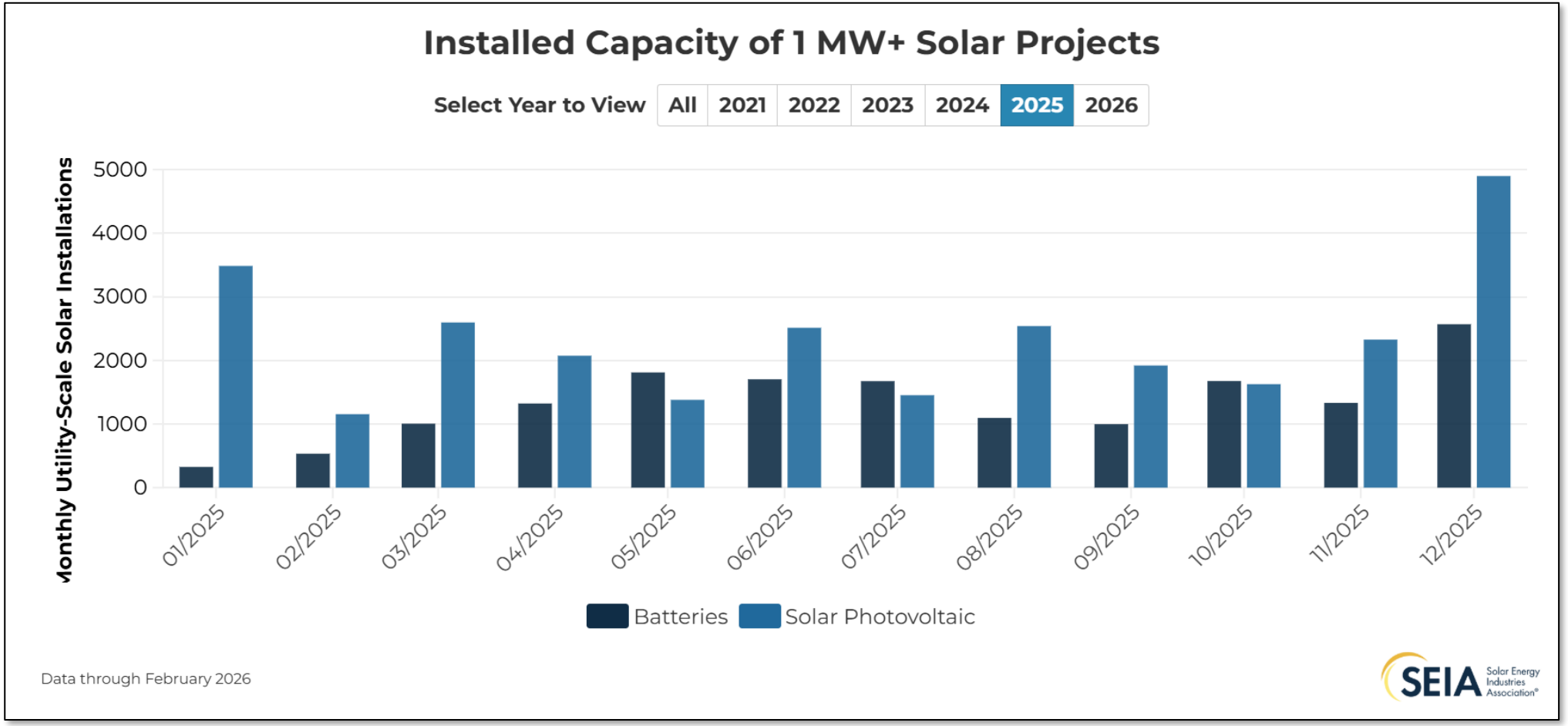
The Growing Need

- Currently more than 8,650 major solar projects representing over 366 GW of capacity
  -Powering around 100 million average homes
- 203 GW of major solar projects currently operating
- 160 GW of large-scale solar projects either under construction or development



The Growing Need

- 1 MW (Megawatt) solar installation to power about 150 to 200 average homes
  - *This shows monthly utility-scale solar installation for 2025*



The Renewable Energy Lifecycle Challenge

Managing End-of-Life Renewable Energy Assets



- **Rapid Growth & Scaling Infrastructure**

  Industry is expanding quickly, creating a growing base of assets that will eventually require responsible end-of-life management.

- **Aging Solar & Energy Storage Assets**

  Early solar installations are now reaching updating, repowering, or decommissioning phases.

- **Increasing Decommissioning & Repowering**

  System upgrades, site redevelopment, and technology improvements are accelerating equipment replacement cycles.

- **Critical Need for Recycling**

  Proper handling and material recovery are essential to meet environmental, regulatory, and ESG expectations.

-Damaged Material – New Construction – Repowers - Decommission

Thermal Runaways & Fire Damage

Onsite removal with specialized, authorized hazmat partner to safely remove all material from site

- Fire-damaged solar farms
- Thermal runaway battery events
- Lightning / environmental damage
- Brush fires
- Full hazmat coordination & compliance
- Full reporting





METech Supports the Renewable Energy Lifecycle

Sustainable Solutions for Solar Components



Specialized Expertise

Processing solar panels, battery storage systems, and electrical infrastructure.



Extensive Network

Regional processing facilities and partners supporting renewable energy.



Nationwide Logistics

Coordinated transportation and project logistics for solar farms, battery storage sites, and infrastructure upgrades.



Trusted Partnerships

Supporting utilities, developers, manufacturers, O&Ms, and operators.

R2 v3 CERTIFIED Responsible™ Recycling

SEIA Solar Energy Industries Association®

AMTIVO

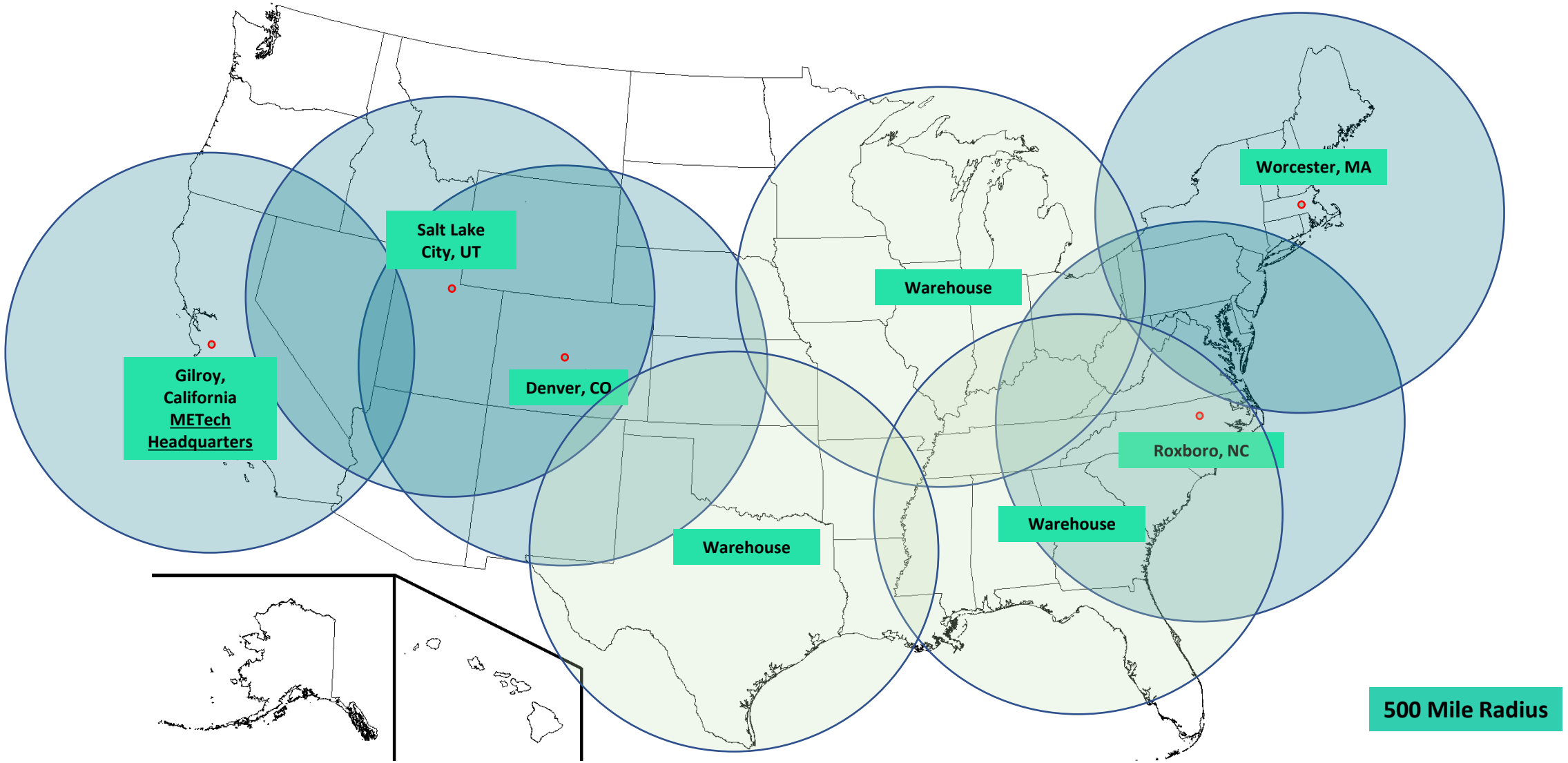
ISO 9001:2015
Quality Management

ISO 14001:2015
Environmental Management

ISO 45001:2018
Occupational Health & Safety

National Processing & Logistics Network

Supporting renewable energy infrastructure nationwide



Solar Farm Materials

- **PV Solar Panels**

  Recovering glass, aluminum frames, silicon, and valuable metals from end-of-life modules.

- **BESS Energy Storage Batteries**

  Recycling lithium-ion and stationary storage batteries, recovering lithium, cobalt, nickel, and other critical minerals.

- **Inverters & Switchgear**

  Processing electrical control systems to recover metals, plastics, and electronic components.

- **Transformers & Electrical Equipment**

  Recovery of copper, aluminum, steel, and management of insulating fluids.

- **Copper Wiring & Cabling**

  Maximizing recovery of high-value copper and conductive materials.

- **Mounting Systems & Racking**

  Recycling aluminum and steel structural components from solar mounting systems.

Solar Panel Materials

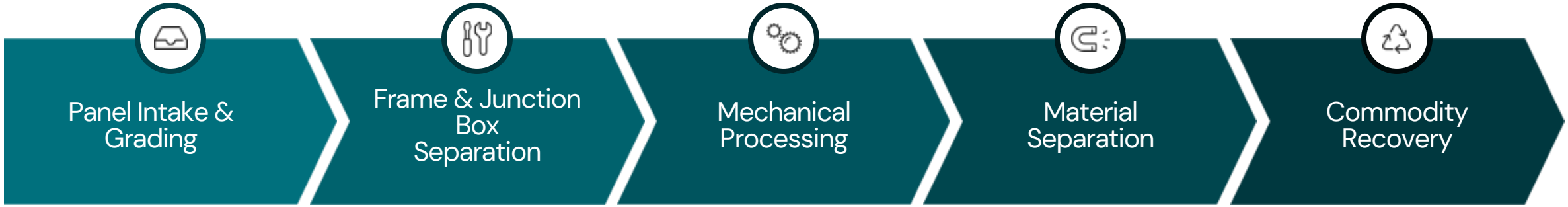
Achieving a High Recovery Rate Through Advanced Recycling

- **Aluminum Frames**
  Lightweight and corrosion-resistant frames, widely recyclable.
- **Glass**
  Can be repurposed for new glass products or construction materials.
- **Silicon**
  The core component of solar cells, crucial for new semiconductor production.
- **Copper**
  Found in wiring and interconnects, a valuable conductive metal.
- **Silver & Precious Metals**
  Extracted from electrical contacts and busbars.
- **Plastics**
  Recovered from encapsulants and backsheets for potential reuse.

Efficient material recovery maximizes resource utilization and supports a sustainable circular economy for solar energy.

Solar Panel Recycling Process

End-of-Life Processing Workflow



Receipt and assessment of incoming panels for categorization.

Dismantling the aluminum frame and separating the electrical junction box.

Shredding or crushing panels into smaller components.

Using technology to separate glass, polymers, and metals.

Extracting valuable raw materials like silicon, silver, and copper for reuse.

Field Services & Project Support

- Onsite labor & palletizing
- Equipment coordination
- Packing, sorting, staging
- Project management



Solar Farm Decommissioning

Program management for solar asset removal, contractor coordination, and site restoration.



BESS Removal & Transportation

Safe dismantling coordination, packaging, and transport of utility-scale energy storage systems.



Equipment Dismantling

Supervised disassembly of solar panels, inverters, and associated balance-of-system hardware.



Project Logistics Coordination

End-to-end oversight of transportation, scheduling, contractors, and site operations.

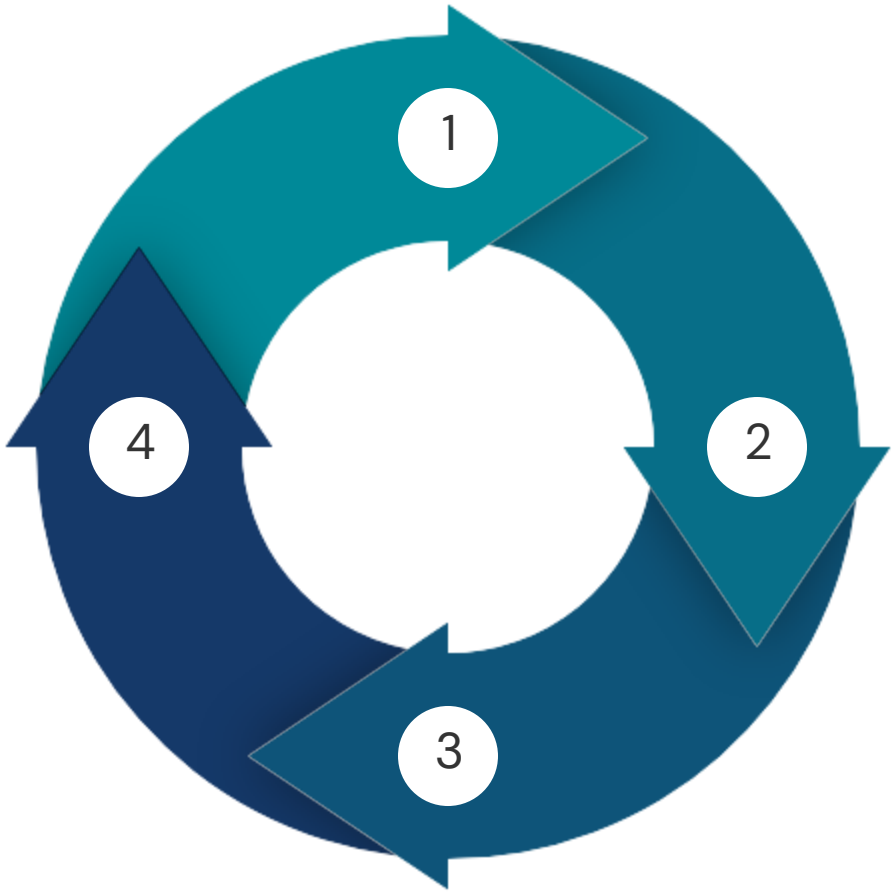


Site Clean-up & Material Segregation

Managed sorting, handling, and recycling or disposal of all project materials.

Zero Landfill Commitment - Circular Economy Impact

Closing the loop on renewable energy materials



1 **Material Recovery**

Recovering metals and components for reuse in manufacturing supply chains.

2 **Landfill Elimination**

Zero-landfill policy ensuring materials are recovered or responsibly processed. .

3 **Responsible Processing**

In-house recycling combined with certified downstream partners for specialized material recovery.

4 **Renewable Lifecycle**

Supporting full lifecycle sustainability for solar and energy storage infrastructure.

Compliance & Certifications

Demonstrating our commitment to quality, environmental responsibility, and safety.

R2v3 Certified

PV Module Recycling (Appendix G) Electronics Recycling & Data Security Standard

ISO 9001

Quality Management Systems

ISO 14001

Environmental Management Systems

ISO 45001

Occupational Health and Safety Management Systems

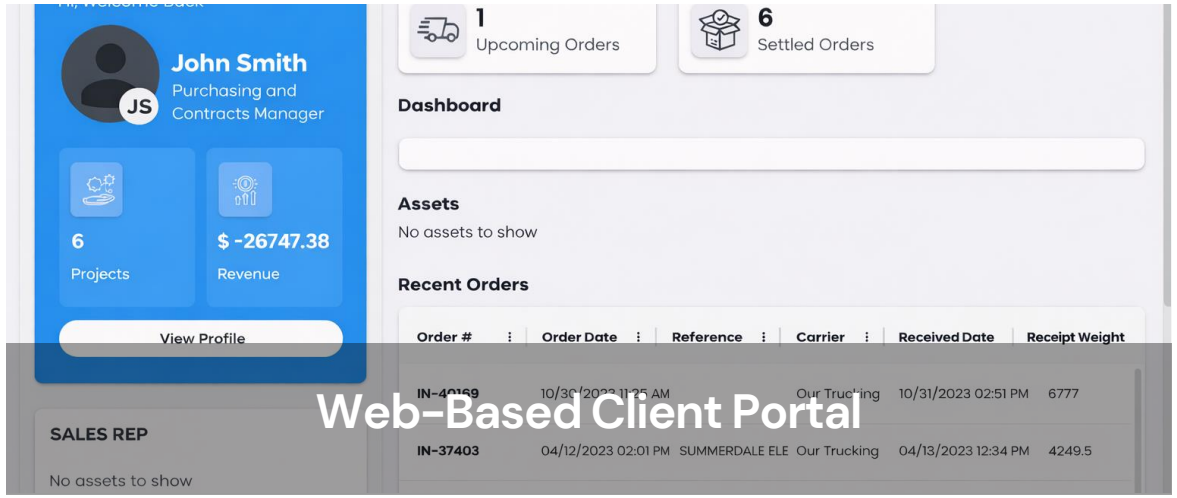
SAM Registration

Registered federal contractor (System for Award Management)

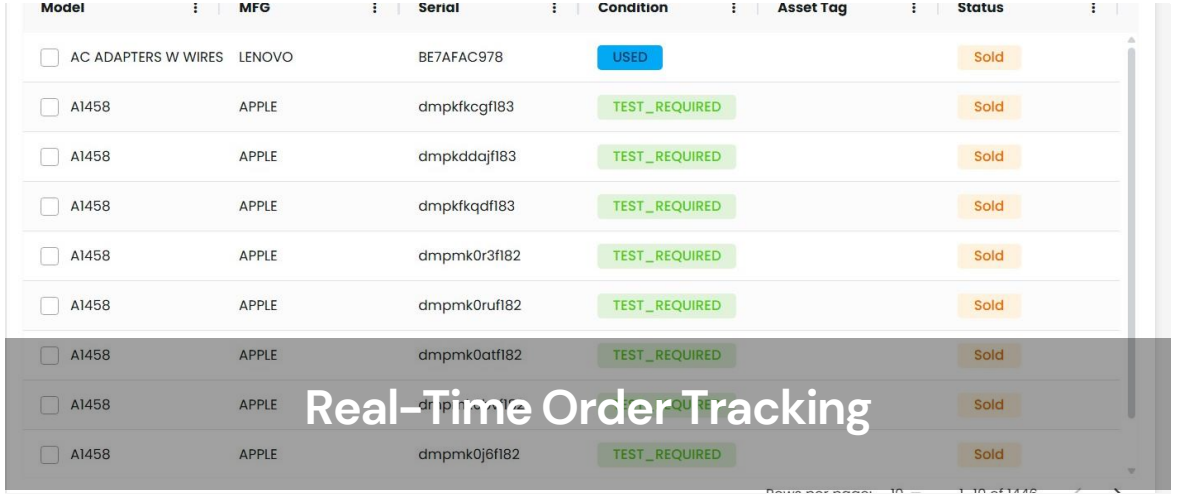
SEIA Recycling Program

Recognized recycling partner within SEIA's National PV recycling network.

Project Transparency & Reporting



Web-Based Client Portal

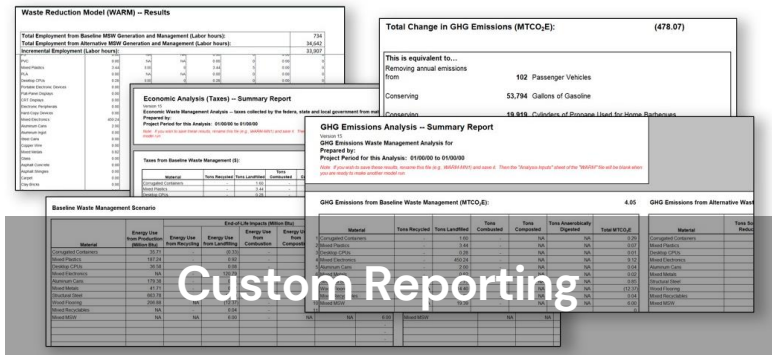


Real-Time Order Tracking

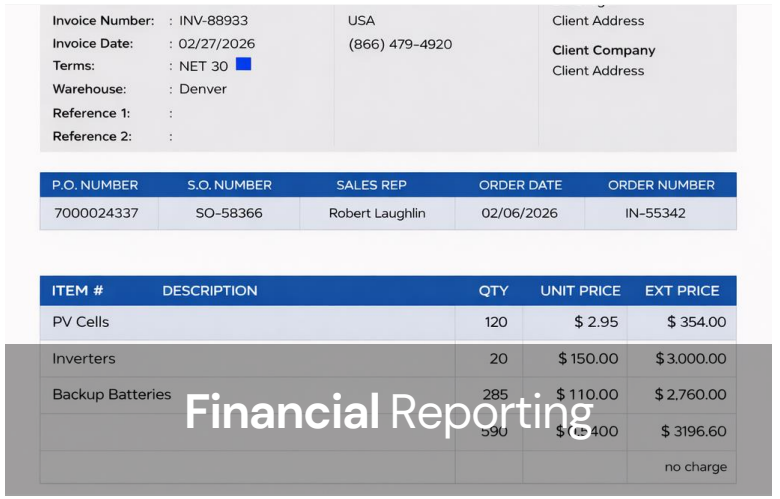


Certificate of Recycling

CO_2 Emissions Reporting



Custom Reporting



Financial Reporting

Energy & Infrastructure Clients

Trusted by leading energy and infrastructure organizations.





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