



Today, manufacturing accounts for 25% of U.S. energy consumption.

In partnership with industry, academia and national labs, the REMADE Institute will enable early stage applied research and development of technologies that could dramatically reduce the embodied energy and carbon emissions associated with industrial-scale materials production and processing.



“Across the nation and around the world, cleaner production, clean tech and adoption of a circular economy are recognized as critical drivers to a prosperous future.”

Nabil Nasr, CEO - REMADE Institute
Associate Provost and Director
RIT Golisano Institute for Sustainability

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Improving U.S. Manufacturing Competitiveness

The Sustainable Manufacturing Innovation Alliance was selected by the U.S. Department of Energy to lead its new Reducing Embodied-Energy And Decreasing Emissions (REMADE) Institute. This national coalition of leading universities and companies will forge new clean energy initiatives deemed critical in keeping U.S. manufacturing competitive.

The Institute will leverage up to \$70 million in federal funding that will be matched by \$70 million in private cost-share commitments from industry, consortium members and partners.

Our Mission

The mission of the REMADE Institute is to enable the early stage applied research and development of key industrial platform technologies that could dramatically reduce the embodied energy and carbon emissions associated with industrial-scale materials production and processing.

By focusing our efforts on addressing knowledge gaps that will eliminate and/or mitigate the technical and economic barriers that prevent greater material recycling, recovery, remanufacturing and reuse, the REMADE Institute seeks to motivate the subsequent industry investments required to advance technology development that will support the U.S. manufacturing eco-system.

Our Goals

The institute will focus its efforts on driving down the cost of technologies essential to reuse, recycle and remanufacture materials such as metals, fibers, polymers and electronic waste.

The REMADE Institute established three primary goals:

- Develop technologies capable of reducing energy emissions through a reduction in primary material consumption and an increase in secondary feedstock use in energy-intensive industries.
- Develop technologies capable of achieving feedstock “better than cost and energy parity” for key secondary materials.
- Promote widespread application of new enabling technologies across multiple industries



SYSTEM ANALYSIS & INTEGRATION

Data collection, standardization, metrics, and tools for understanding material flow



DESIGN FOR REUSE & DISASSEMBLY

Design tools to improve material utilization and reuse at End-of-Life (EOL)



MANUFACTURING MATERIALS OPTIMIZATION

Technologies to reduce in-process losses, reuse scrap materials, and utilize secondary feedstocks in manufacturing



REMANUFACTURING / EOL REUSE

Efficient and cost effective technologies for cleaning, component restoration, condition assessment, and reverse logistics



RECYCLING & RECOVERY

Rapid gathering, identification, sorting, separation, contaminant removal, reprocessing and disposal