



IEDO – Technical Assistance and Workforce Development subprogram

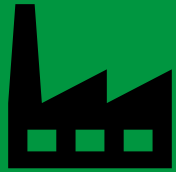
Anne Hampson, Program Manager,
Industrial Efficiency and Decarbonization Office

AMMTO & IEDO Joint Peer Review May 16-18, 2023
Washington, D.C.



Manufacturers Need for Technical Assistance

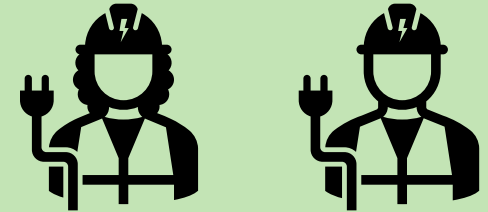
Decarbonizing the industrial sector requires deploying new technologies and processes.



Manufacturers need assistance managing significant change and implementing new technology in a cost-effective way.



As the pace of industrial decarbonization accelerates, workers need resources to stay informed and receive ongoing training about new solutions and technologies.



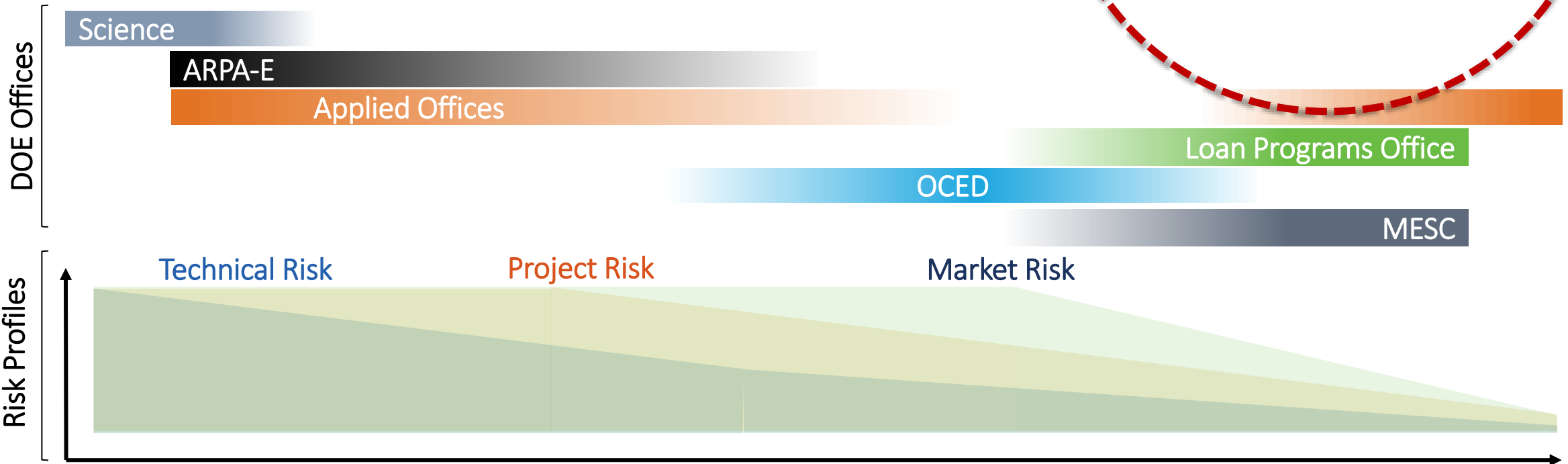
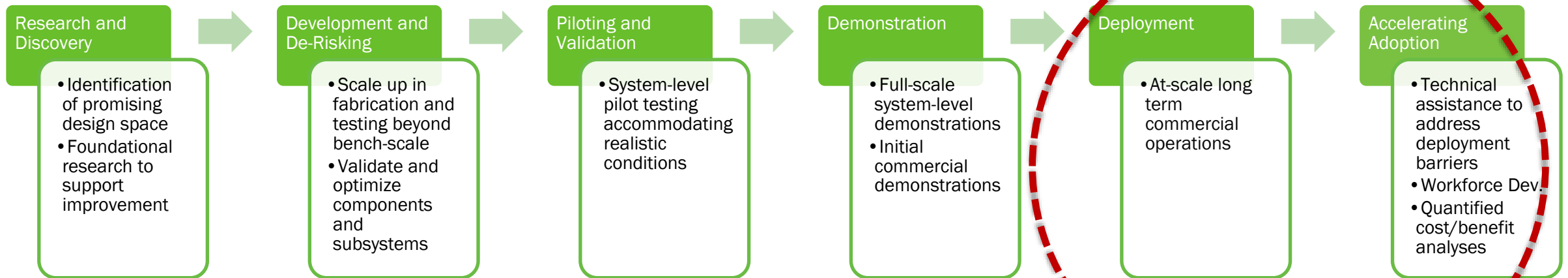
R&D portfolio demonstrates innovative energy and efficiency technology for industry



TAWD picks up the baton for the next leg of the race toward deployment at scale



Role of DOE's Technology Development Programs



IEDO's Technical Assistance Efforts



Public /private partnerships to help manufacturers and industrial organizations set and achieve long-term energy intensity reduction goals



Education and training for the current and future manufacturing workforce



No-cost tools and resources for manufacturers to reduce GHG emissions and improve energy efficiency and competitiveness



End-user support, stakeholder engagement, and technical services for the industrial sector

**TA WORK PRODUCTS
INCLUDE:**

**ENERGY
ASSESSMENTS**

**PEER-TO-PEER
NETWORKING**

**TOOLS &
TRAINING**

**TECHNOLOGY
SCREENING**

**PROJECT
PROFILES**

Technical Assistance and Workforce Development Activities

CORE PROGRAMS



CHP/ONSITE
ENERGY



BETTER PLANTS
BETTER CLIMATE
CHALLENGE



STRATEGIC ENERGY
MANAGEMENT

50001 READY
SEP 50001

KEY INITIATIVES

*Education and
Workforce
Development*

*Energy
Intensive
Pilot*

*Industrial
Technology
Validation*

*Technical
Assistance Tools*

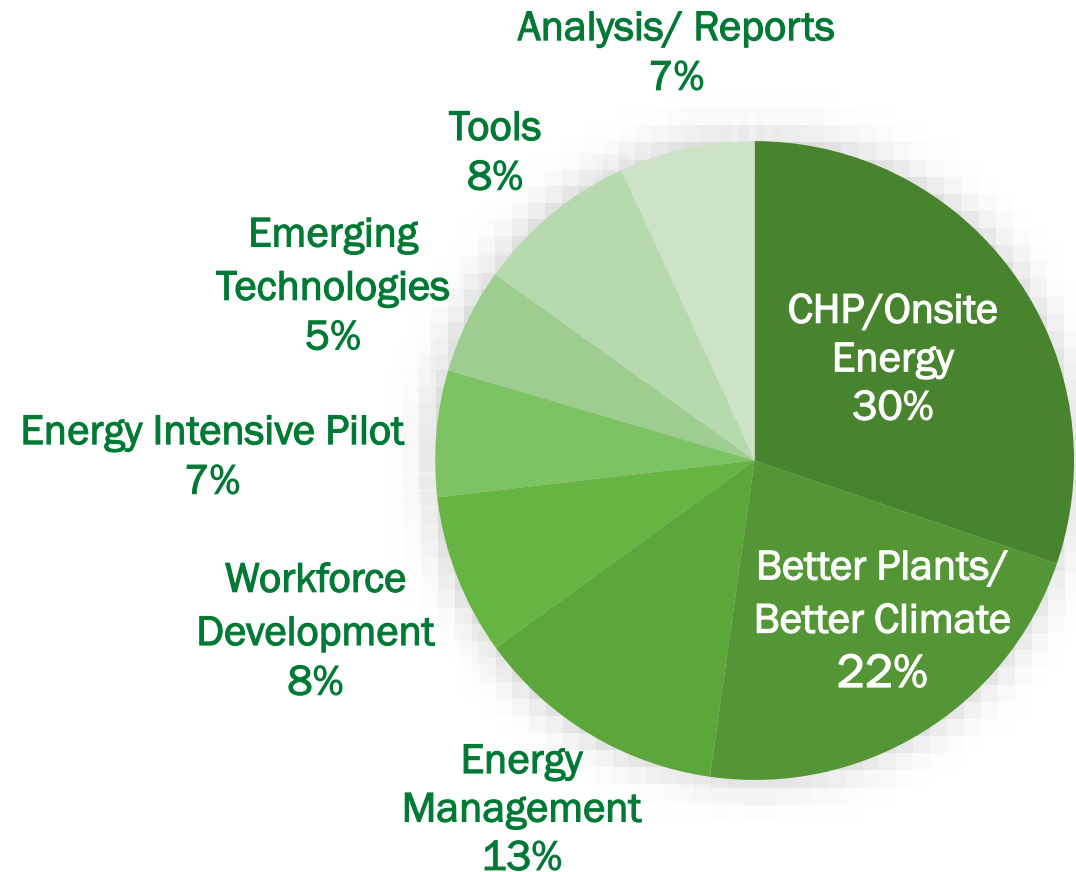
Funding Mechanisms and Allocation

\$45M | FY23

The Onsite Energy Program is a new initiative to provide technical assistance for industrial facilities and other large energy users to increase the adoption of onsite clean energy technologies.

Operational Methods:

- Strong reliance on National Labs to support programs
- Resource and tool development
- Subject matter experts
- Use of cooperative agreements for regional Technical Assistance Partnerships
- Interagency partnerships
- EPA – energy intensive pilot
- Workforce development – National Strategy for Advanced Manufacturing



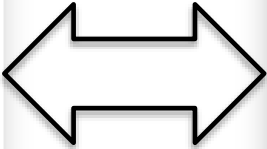
Multiplying Our Impact

U.S. Industrial Sector

IEDO



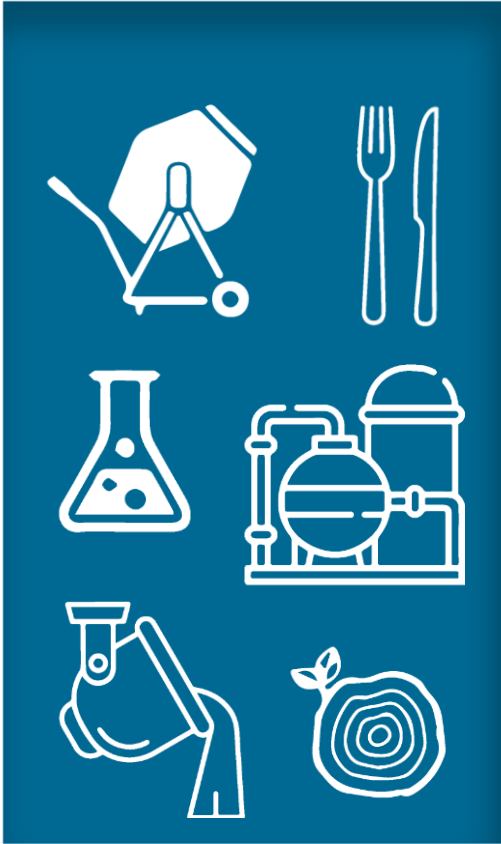
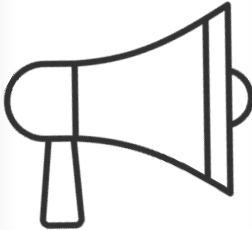
Collaboration
&
Development
of Resources



Partners



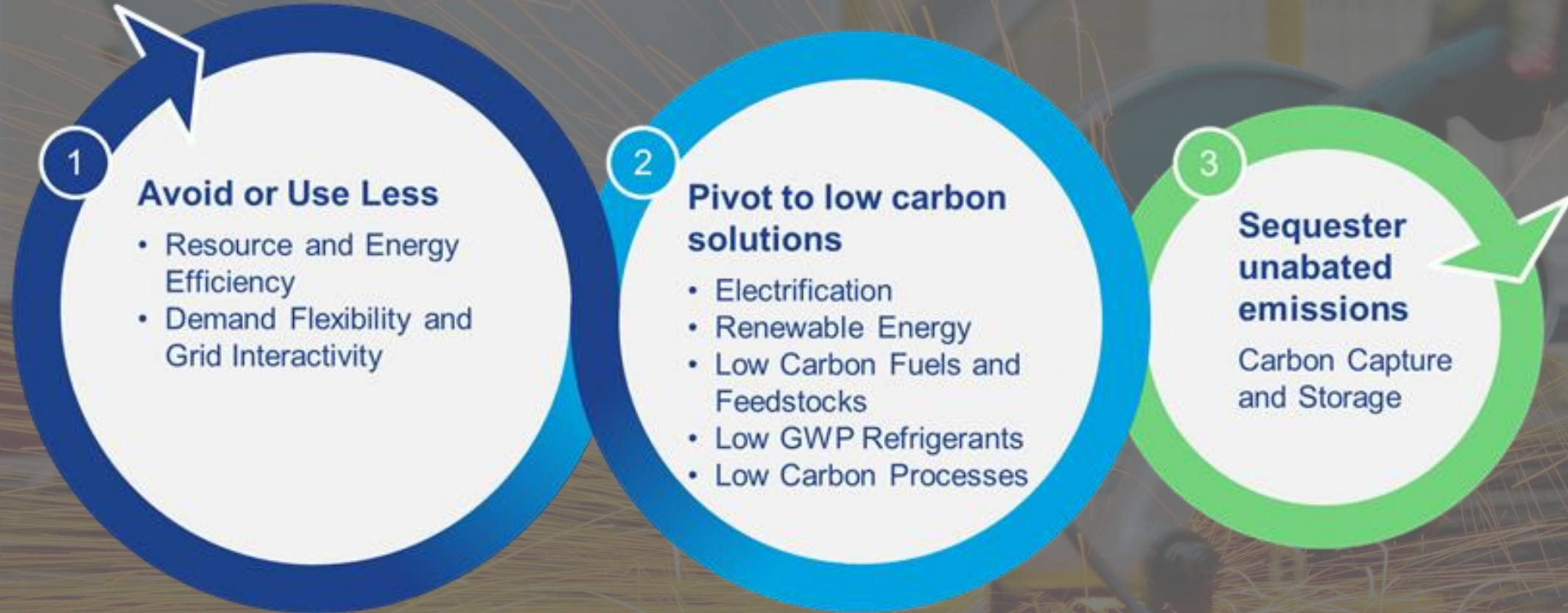
Disseminated
to all of
Industry



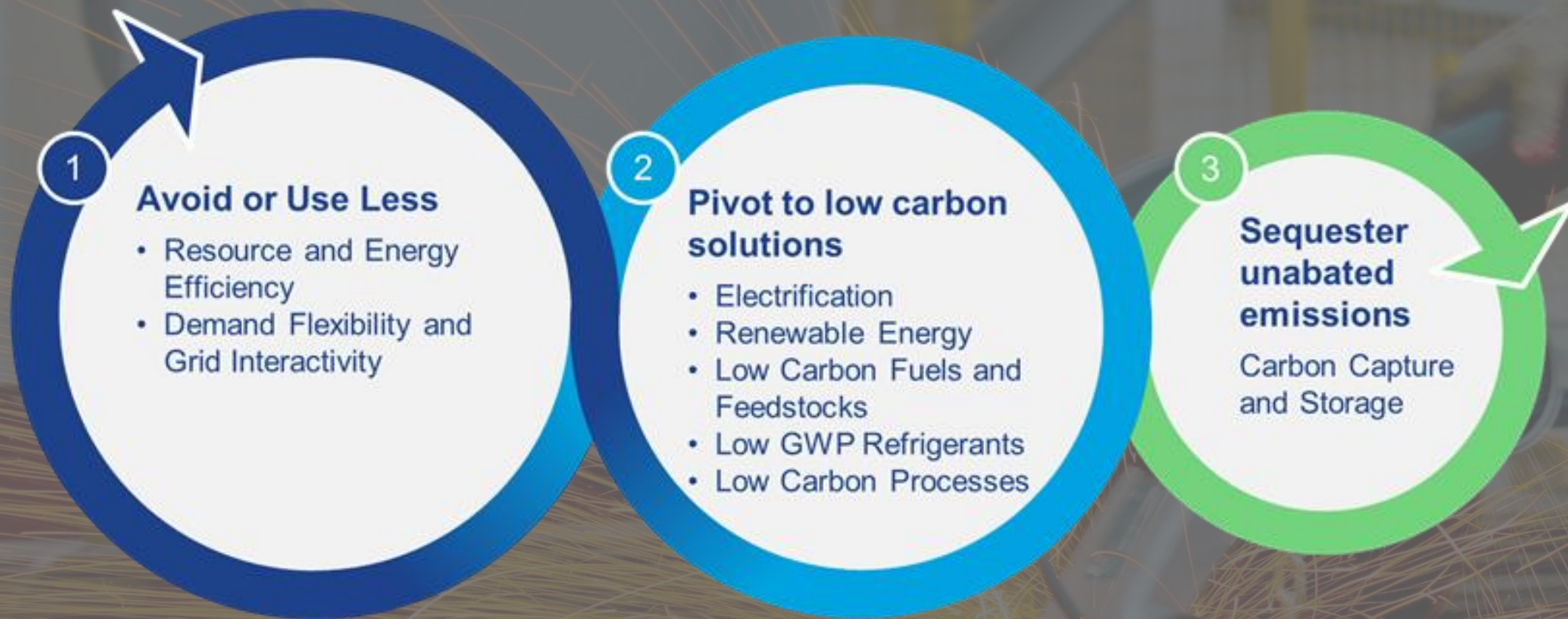
Analysis and Stakeholder Engagement



Pathways to Decarbonization



Pathways to Decarbonization



Better Plants

CHP/Onsite Energy

Energy Management

Better Climate Challenge

Workforce Development

Technical Assistance Expansion to Decarbonization



- Launch of Better Climate Challenge
- Increased outreach and resources for energy-intensive industries



- Carbon-enhanced 50001 Ready Navigator
- Decarbonization project guidance



U.S. DEPARTMENT OF ENERGY
CHP Technical Assistance
Partnerships

- Shifting focus to CHP fueled by RNG/Hydrogen
- Launch of Onsite Energy program



Carbon Inventory
Calculator



Electrification
Impact Calculator



Low Carbon
Action Plan Tool

Low Carbon Tools and Calculators

Energy and Environmental Justice in Manufacturing

Engagement with Community Stakeholders

- Advanced Manufacturing Communities Collaborative
- Minority Business Development Agency Advanced Manufacturing Center

Support for disadvantaged communities through TAWD programs

- Better Plants In-Plant Trainings, recognition opportunities
- CHP tribal connections
- Workforce consortium
- Preference for DACs and strong Community Benefits plans in FOA selection

Communities LEAP - Manufacturing Pathway

- Connect communities with existing DOE programs to bolster economic growth and environmental quality through decarbonization



Looking Forward

Top Priorities over next 5 years

- Expand Better Climate Challenge
- Implement new Onsite Energy Program
- Increase TA to energy intensive manufacturers
- Upskill the manufacturing workforce
- ★ • Become a connector for manufacturers to DOE opportunities

Areas for Further Inclusion in TAWD Programs

- Increase focus on tech-to-market activities
- Social/behavioral strategies to speed decarbonization implementation
- Strategies around equity and engaging disadvantaged communities
- Stakeholder engagement around new program activities



Thank you

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