

U.S. DEPARTMENT OF
ENERGY

Office of
**ENERGY EFFICIENCY &
RENEWABLE ENERGY**

AMMTO & IEDO JOINT PEER REVIEW

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BETTER PLANTS AND BETTER CLIMATE CHALLENGE

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This presentation does not contain any proprietary, confidential, or otherwise restricted information



Better Plants and Better Climate Challenge FY23 | \$9.46M

- Since 2011, through **Better Plants**, DOE has partnered with industrial organizations to set and achieve ambitious, long-term, portfolio-wide energy efficiency goals (25% improvement in energy intensity in 10 years)
 - Partners can also work with DOE on water efficiency & waste reduction goals
- As of 2021, industrial organizations can join the **Better Climate Challenge** and set portfolio-wide GHG emission reduction goals (50% reduction in Scopes 1 & 2, without offsets)
- Partners commit to:
 - Public, portfolio-wide goal(s)
 - Submitting energy/emissions data annually
 - Knowledge sharing their solutions & strategies with peers
- DOE commits to:
 - Providing direct, ongoing technical assistance
 - Developing resources, tools, and trainings
 - Convening partners and subject matter experts



Program Overview

Market Leadership

Developing Innovative, Replicable Solutions with Market Leaders

- National Recognition
- Peer to Peer Networking
- Better Building Solutions Center

Technical Assistance

Making Energy Efficient Investments Easier

- Technical Account Managers
- Software tools for energy management and analysis
- Financing Navigator
- Diagnostic Equipment Program
- Technical Publications

Access to Innovation

Innovation to Drive Savings

- DOE National Lab Visits
- Industrial Technology Validation

Workforce Development

Helping You Meet Your Challenges of Today, and Tomorrow

- In-Plant Trainings
- Virtual trainings
- Energy and Decarbonization bootcamps



Program Overview



To date, Better Plants partners have cumulatively saved:

- **10.6 Billion Dollars**
- **2.2 Quadrillion BTUs**
- **131 MMTCO₂**
- **1.8% energy intensity per year**



Today:

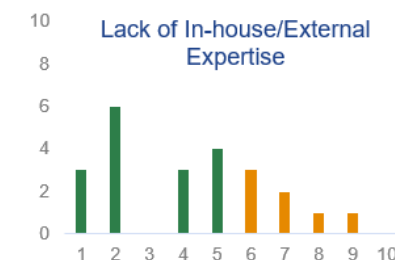
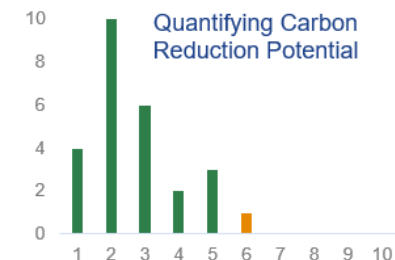
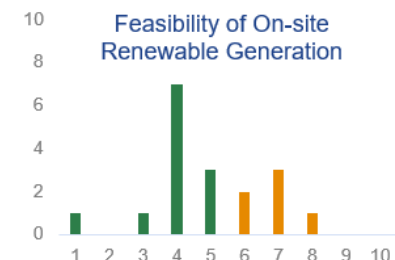
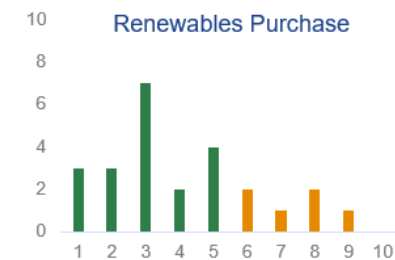
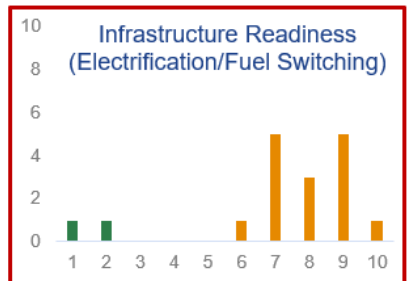
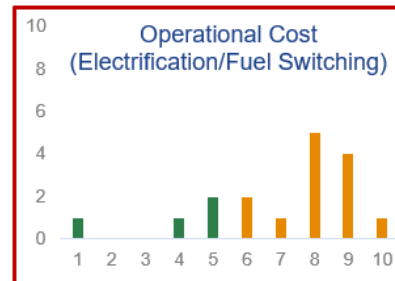
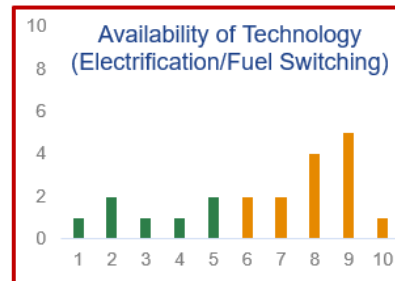
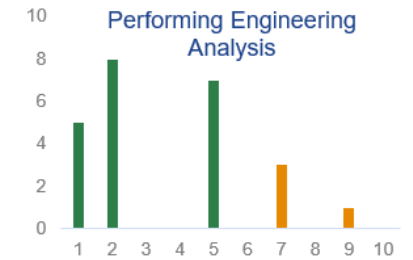
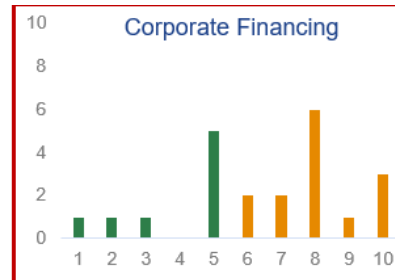
- **280+** partners
- **> 3,500** facilities
- **74** goals achieved

Alignment with IEDO and TAWD Mission

- **IEDO** - leads the development and **accelerates the adoption** of sustainable technologies that **increase efficiency** and **eliminate industrial GHG emissions**
 - Knowledge sharing and peer exchange
 - Technical assistance tools and resources
- **TA - Partners** with and **enables** industry to accelerate the adoption of **technologies, programs, and best practices** that improve efficiency and decarbonization.
 - Frequent communication with partners
 - Connect industry to other DOE programs, national labs to support technology development
 - Focus on technology AND best practices
- **WD** - Promotes the development of a diverse mix of new workers and **upskills existing workers** for the industrial jobs of today and the future
 - In-Plant & Virtual Trainings
 - “Bootcamp” trainings

Challenges and Barriers

- Ambition to decarbonize is there, but barriers remain...
 - Technology development/readiness
 - Costs of decarbonization measures
 - Infrastructure readiness
 - Fuel prices
 - Policy environment (federal, state, local, utility, internal)
 - Quantifying impacts



Objectives and Targets



Objectives: Provide tools, resources, trainings, and other technical assistance to help partners achieve their goals.

Share partner successes and examples of leadership to catalyze broader adoption of low-emission technologies and best practices.

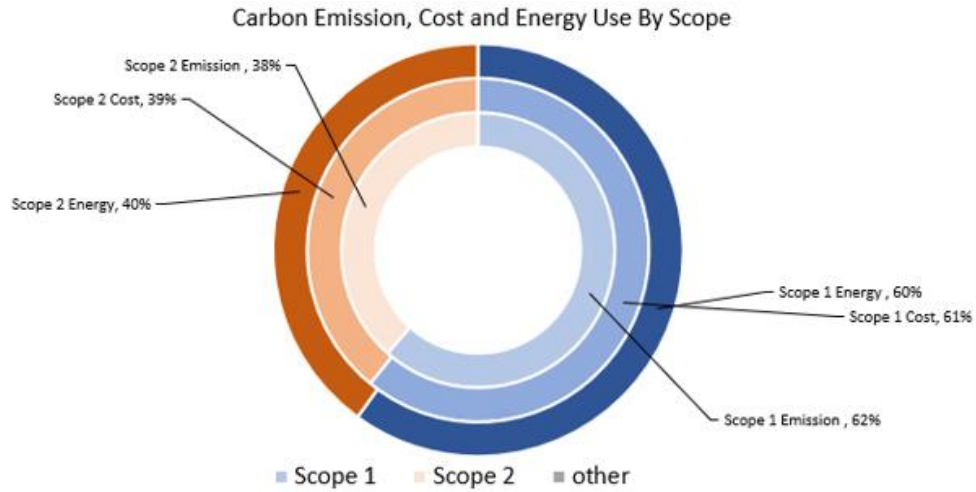
Convene partners, subject matter experts, researchers, etc. to encourage collaborative partnerships and peer-to-peer learning.

FY23 Targets: Recruit 20 new organizations, at least 12 to Better Climate Challenge

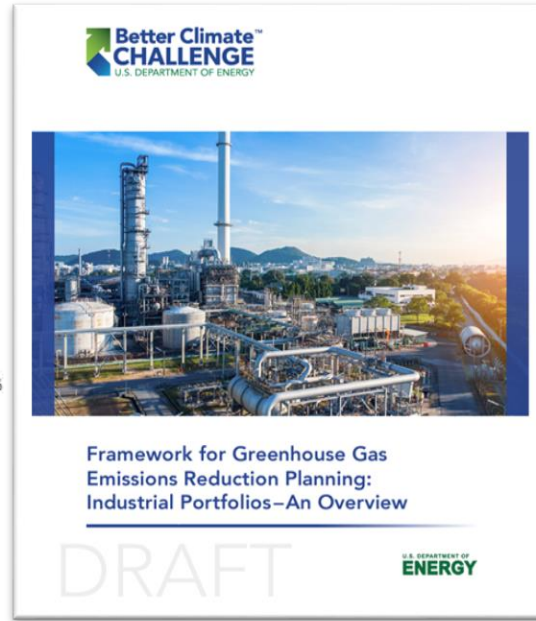
Deliver 20 In-Plant trainings

Deliver 3 bootcamps

Recent Achievements



Concluded the Low Carbon Pilot and published the Low Carbon Pilot Toolkit, containing tools, resources, solutions developed over the two-year pilot



Published a new draft resource – guidance on how to develop a detailed, actionable, and portfolio-wide plan to decarbonize an industrial portfolio



Launched the first Energy Bootcamps – a three-day crash course in industrial energy systems, energy management, and a primer on industrial decarbonization

Future Work

Decarbonization

Continue to expand Better Climate Challenge

- Finalize Emission Reduction Planning Framework
- Publish Electrification Assessment Framework
- Launch new set of working groups
- Develop onsite decarbonization technical assistance (assessments)

Training

Expand training offerings

- Launch a clearinghouse for all training offerings
- Add new training topics and new formats (e.g. on-demand virtual trainings)
- Explore offering continuing education credits

Recruiting

Continue recruiting to both programs

- Prioritize BCC, but...
- Meet partners where they are

Connection

Strengthen role of Better Plants as a connection point for industry partners

- Tech-to-market
- Funding opportunities

Impact



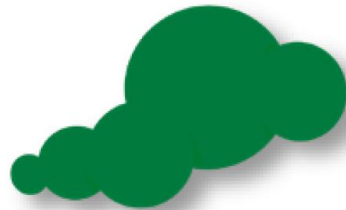
2.2 QBTU
of energy saved



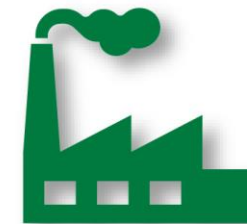
\$10.6 billion
saved



1.8%
average annual
energy intensity
improvement rate



131 million
metric tons of CO₂ saved



14%
of the U.S.
manufacturing footprint

**“If you want to go farther and faster on energy efficiency –
sign up for Better Plants.”**

- Better Plants & Better Climate Challenge partner

Questions?

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