

Through the U.S. Department of Energy's (DOE) Better Plants program, DOE offers multi-day Virtual Trainings, which are available throughout the year. Participants are taught how to identify energy conservation and decarbonization opportunities, quantify savings from those opportunities, and implement projects to realize the cost savings. Partners will also learn about technological fundamentals and receive training on the various tools that are available. Technical expertise gained through the Virtual Trainings helps partners overcome barriers to adopting energy-efficient and low-emissions best practices and technologies. Typical Virtual Training events are led by industrial experts and Better Plants Technical Account Managers. Each Virtual Training lasts for 4 to 8 weeks and consists of weekly 2 to 2.5-hour sessions.



Better Plants and Oak Ridge National Lab (ORNL) also offer other forms of training, including In-Plant Trainings (INPLTs) and Energy and Decarbonization Bootcamps. Similar topics are covered in all training formats: these include process heating systems, steam systems, ammonia-based refrigeration, wastewater treatment, and more. Visit the [Better Plants Trainings page](#) to explore other training formats.

### Who Can Participate?

Participation in the Virtual Trainings is open to all US manufacturers and is offered at no charge.

### How Do Participants Benefit?

Through Virtual Trainings, participants from manufacturing plants, supply chains, utilities, and other external stakeholders learn how to identify energy efficiency and decarbonization opportunities, quantify savings from those opportunities, and implement projects to realize the savings – all through the convenience of a virtual meeting. The training also ensures attendees are familiar with working principles, best practices, and have the capability to analyze the energy performance of industrial energy systems.

In addition, DOE experts emphasize a system-level approach that takes into account the interaction of individual components and how they are configured within the system to optimize energy efficiency. To maximize the benefits of attending the training, homework assignments are given to the participants at the end of each session and are due by the next session. The assignments are designed to enhance participants' understanding and knowledge. Upon completion, participants receive a DOE certificate indicating earned professional development hours.

If you have questions about the Virtual Trainings, please contact Wei Guo ([guow@ornl.gov](mailto:guow@ornl.gov)).

## What Have the Results Been So Far?

From 2020 to 2024, DOE conducted more than 20 Virtual Trainings for more than 1,600 participants which led to the identification of more than \$11 million in energy cost savings.

## How Do I Register?

To register for a Virtual Training, please visit the [Virtual Trainings page](#), and click the [registration tab](#) to sign-up for the next upcoming training topic. Registration signups will open a few weeks before the first training date.

The [Virtual Trainings page](#) is also a great resource to review past training topics, watch recorded sessions, explore course materials, and learn what to expect during each session.

## Current Virtual Training topics:

- ▶ 50001 Ready
- ▶ Ammonia Refrigeration
- ▶ CHP Systems
- ▶ Compressed Air Systems
- ▶ Drinking Water Systems
- ▶ Energy Treasure Hunts
- ▶ Fan Systems
- ▶ Industrial Water Efficiency
- ▶ Motor Systems
- ▶ Process Cooling
- ▶ Process Heating
- ▶ Pumping Systems
- ▶ Steam Systems
- ▶ Industrial Waste Reduction
- ▶ Wastewater Treatment

### Virtual Training Figures

1,600+ completed

20+ Virtual Trainings completed

\$11 Million in potential Energy Costs Savings

Based on partner feedback, DOE is continuously expanding the Virtual Trainings to cover additional topics and help partners find new ways to save energy and reduce greenhouse gas emissions. Input is welcome on additional Virtual Training topics to explore. For more information, contact [BetterPlants@ee.doe.gov](mailto:BetterPlants@ee.doe.gov).



If you have questions about the Virtual Trainings, please contact Wei Guo ([guow@ornl.gov](mailto:guow@ornl.gov)).