



Energy Management and Smart Manufacturing Workshop

When: May 23, 2024 (Thursday)

Where: ORNL Manufacturing Demonstration Facility (MDF)
2350 Cherahala Blvd Knoxville, TN 37932

The East Tennessee Initiative for Smart Energy Management (ETISE) is hosting training and interactive discussion sessions on how to use smart manufacturing to better manage energy and reduce carbon emissions.

The goal of ETISE is to create a regional model for technical assistance and workforce training to effectively integrate smart manufacturing in energy management systems into energy-related business practices. The Department of Energy funds ETISE through its Industrial Efficiency & Decarbonization Office (IEDO). Most information about ETISE can be found at [ETISE.utk.edu](https://etise.utk.edu). The event is also supported by Oak Ridge National Lab and University of Tennessee Center for Industrial Services (CIS).

**Free
Registration**

<https://etise.utk.edu/etise-industrial-workshop-training-registration/>



Agenda (May 23, 2024)



07:45 a.m. - 08:30 a.m.	Breakfast and Networking	
08:30 a.m. - 08:40 a.m.	Opening Remarks <i>Welcome and Overview for the Day</i>	<i>Dr. Mingzhou Jin</i>
08:40 a.m. - 09:45 a.m.	Training Session #1: Energy Management <i>Review of Energy Management; Charts & Graphs on Use; Explain Why of Energy Management; Review of DOE Estimates of Energy Projects with Return on Investment; Carbon Emissions Reduction</i>	<i>Dr. Lynn Reed</i>
09:45 a.m. - 10:00 a.m.	Break	
10:00 a.m. - 11:00 a.m.	Training Session #2: Smart Manufacturing for Energy Efficiency and Carbon Emissions Reduction <i>Introduction to Smart Manufacturing; Levels of Smart Manufacturing Maturity; Dimensions of Smart Manufacturing; Smart Manufacturing for Energy Consumption Reduction and Carbon Emissions Reduction</i>	<i>Dr. Lynn Reed</i>
11:00 a.m. - 12:00 p.m.	Training Session #3: ISO 50001 and 50001 Ready <i>Introduction to ISO50001-2018; DOE 50001 Ready, Process Model; Overview of Standard Sections; Similarity / Differences to ISO14001, DOE Resources for Smart Energy Management and Decarbonization</i>	<i>Pete Shack</i>
12:00 p.m. - 01:00 p.m.	Lunch & Showcases	
01:00 p.m. - 01:55 p.m.	Interactive Session #1: Aspiration <i>Interactive Session #1: Status and Aspirations of Smart Manufacturing for Energy Efficiency and Decarbonization</i>	<i>Dr. Mingzhou Jin</i>
01:55 p.m. - 02:50 p.m.	Interactive Session #2: Barriers <i>Barriers to Adoption of Smart Manufacturing to Improve Energy Efficiency and Reduce Carbon Emissions</i>	<i>Bill Hicks</i>
02:50 p.m. - 03:00 p.m.	Break	
03:00 p.m. - 03:55 p.m.	Interactive Session #3: Needs <i>Needed Assistance of SMEs to Reduce Energy Consumption and Carbon Emissions through Smart Manufacturing</i>	<i>Dr. Mingzhou Jin</i>
03:55 p.m. - 04:00 p.m.	Closeout and Wrap-up of Sessions	
04:00 p.m. - 05:00 p.m.	Tour of ORNL Manufacturing Demonstration Facilities including Additive and Battery Manufacturing	<i>David Vance</i>
05:00 p.m.	Adjourn	