Energy Management and Smart Manufacturing Workshop

When: Friday, August 16, 2024
Where: TN MADE (Tennessee Manufacturing and Design Enterprise)
       2030 Valley Vista Road, 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. The event is also supported by Oak Ridge National Lab and University of Tennessee Center for Industrial Services (CIS).

Please register for the event on our ETISE website at:

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

Additionally, please complete the TN MADE Visitor Release Form here:

https://forms.gle/Fo8rJnzUbhrmEna39
Agenda

07:45 a.m. - 08:30 a.m.  Breakfast and Networking
08:30 a.m. - 08:40 a.m.  Opening Remarks  Dr. Mingzhou Jin
                          Welcome and Overview for the Day
08:40 a.m. - 09:45 a.m.  Training Session #1: Energy Management  Dr. Lynn Reed
                          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
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  Dr. Lynn Reed
                          Introduction to Smart Manufacturing; Levels of Smart
                          Manufacturing Maturity; Dimensions of Smart Manufacturing; Smart
                          Manufacturing for Energy Consumption Reduction and Carbon
                          Emissions Reduction
11:00 a.m. - 12:00 p.m.  Training Session #3: ISO 50001 and 50001 Ready Pete Shack
                          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
12:00 p.m. - 01:00 p.m.  Lunch & Showcases
01:00 p.m. - 01:55 p.m.  Interactive Session #1: Aspiration  Dr. Mingzhou Jin
                          Interactive Session #1: Status and Aspirations of Smart
                          Manufacturing for Energy Efficiency and Decarbonization
01:55 p.m. - 02:50 p.m.  Interactive Session #2: Barriers  Bill Hicks
                          Barriers to Adoption of Smart Manufacturing to Improve Energy
                          Efficiency and Reduce Carbon Emissions
02:50 p.m. - 03:00 p.m.  Break
03:00 p.m. - 03:55 p.m.  Interactive Session #3: Needs  Dr. Mingzhou Jin
                          Needed Assistance of SMEs to Reduce Energy Consumption and
                          Carbon Emissions through Smart Manufacturing
03:55 p.m. - 04:00 p.m.  Closeout and Wrap-up of Sessions
04:00 p.m. - 05:00 p.m.  Tour of TN MADE Facility  David Vance
05:00 p.m.              Adjourn