



OAK RIDGE NATIONAL LABORATORY

MEASUR: The System Assessment Tool

MEASUR is a free, open-source software suite developed by the U.S. Department of Energy (DOE) to help industrial facilities optimize energy efficiency. MEASUR provides detailed analyses of industrial systems to identify energy-saving opportunities and enhance performance.

Key Features:

- **Multi-System Analysis:** Supports assessments for compressed air, pumps, fans, process heating, steam, motors, and other industrial systems.
- **User-Friendly Interface:** Intuitive workflows guide users through data entry, system modeling, and results interpretation.
- **Energy and Cost Savings Calculations:** Quantifies potential energy savings, cost reductions, and performance improvements.
- **Customizable Reports:** Generates detailed reports to support decision-making and compliance with energy efficiency programs.
- **Open source and Secure:** MEASUR is platform-agnostic and ensures data privacy by storing information locally on the user's device.

System-Level Assessments:

MEASUR assessment modules allow users to model their equipment and systems based on foundational energy assessment processes. Users enter operational and measured data to establish a baseline, then create and compare multiple "what-if" scenarios to determine the most impactful efficiency projects.

Each assessment concludes with a report summarizing estimated impacts on cost, system performance, and resource use. Reports include graphs and tables for easy integration into proposals or presentations.

Who Should Use MEASUR?

- Industrial facility managers and engineers.
- Energy auditors and consultants.
- University researchers and students studying energy efficiency.

Additional Capabilities:

- **Quick and Easy Calculators:** Over 80 calculators for various energy systems, including motors, fans, lighting, pumps, and compressed air.
- **Treasure Hunt Module:** Supports energy treasure hunts, identifying low-to-no-cost opportunities, generating project trackers, initializing presentation report-outs and more.
- **Equipment Inventories:** Allows users to catalog motors, pump, and more to help visualize and manage system inventory.
- **Data Explorer:** Enables visualization of large-scale sensor data for trend analysis.



How to Access:

MEASUR is available online at measur.ornl.gov or for free download at industrialresources.ornl.gov. The software is regularly updated with new features and enhanced capabilities.

For support, training, or general questions, contact the MEASUR help desk and technical assistance team at measur-help@ornl.gov.



MEASUR

MEASUR Online!

Identify Opportunities Across Industrial Systems!

