



# MEASURE IT, UNDERSTAND IT, SAVE IT

**TOOL LENDING LIBRARY OFFERS FREE EQUIPMENT AND RESOURCES  
TO HELP YOU CUT ENERGY USE AND COSTS**

To improve energy performance and cut operating costs, you need to understand how systems in your building use energy. Energy Trust of Oregon can help by providing free access through an online platform to a full range of diagnostic tools—ranging from simple light meters to sophisticated infrared cameras. Through an arrangement with the Smart Buildings Center, a regional resource for energy efficiency, commercial and industrial building owners and managers can borrow tools at no charge.

## **We have a tool for that**

The Tool Lending Library has 85 different types of tools—more than 1,000 pieces of equipment—available to borrow. Some of the most popular tools include:

- Infrared camera, which can identify electrical, mechanical or building envelope issues
- Ultrasonic leak detector, which can detect compressed air and steam trap leaks, and detect excessive vibration or problems with bearings, valves, electrical circuit breakers, and relays
- Light meters, which measure light reflection in a space and help determine if an area is over- or under-lit
- Data loggers which can be used easily with almost any type of equipment to evaluate performance and energy use
- Air flow meters, which can help match ventilation to occupancy

## **How to use diagnostic tools**

- Troubleshoot equipment problems
- Fine tune building performance
- Improve comfort
- Locate leaks
- Reduce maintenance
- Identify energy waste
- Try a tool before purchase



## **Fast facts on Tool Lending Library**

- Searchable inventory
- Available at no charge
- Easy online checkout
- Flexible borrowing times
- Pre-paid return shipping label
- Helpful instructions and videos



## Borrowing tools is easy

Tools are available for short-term data collection, ranging from one to four weeks.

1. Visit [www.smartbuildingscenter.org/tool-library](http://www.smartbuildingscenter.org/tool-library).
2. Read the [Tool Lending Library policy](#) and [Customer agreement](#).
3. Create, or log in to your account.
4. [Browse the inventory](#). Filter for the type of tool or its availability.
5. Click "reserve" and select the date range to rent each tool. Request tools one week ahead to allow for shipping. Select "start."
6. Go to your cart, give your project a title and fill out the shipping details. Submit reservation. Confirmation may take up to two days. Wait for confirmation before scheduling your project.
7. Receive tools, instructions, fact sheets and a return shipping label.

For questions or to inquire about extending your checkout, contact the Tool Lending Library at 206.538.0685 or [tool-library@smartbuildingscenter.org](mailto:tool-library@smartbuildingscenter.org).

As an Energy Trust service, the Tool Lending Library is available for customers served by Portland General Electric, Pacific Power, NW Natural, Cascade Natural Gas and Avista.



Get more from your energy. Talk with your Energy Trust program representative about how you can use tools at your site. Or visit [www.energytrust.org/tool-lending-library](http://www.energytrust.org/tool-lending-library).

## CITY OF BEND'S POLICE STATION

Complaints at the City of Bend's Police Station prompted the city to borrow an infrared camera to test whether thermostats were out of calibration and by how much. "It was convenient to have access to the camera for a couple of weeks so we could accurately adjust temperature settings," said Dustin Mitsch, facilities services supervisor, City of Bend. "Infrared cameras are expensive and not something we'd use enough to warrant buying our own." The city also found a creative application for the tool library's electricity usage monitors. "We measured electricity used in office cubicles by computers, monitors, space heaters, task lights and other devices," said Mitsch. "Using the data, we produced a funny 'good cube vs. bad cube' video to encourage employees to power down when they leave for the day."