

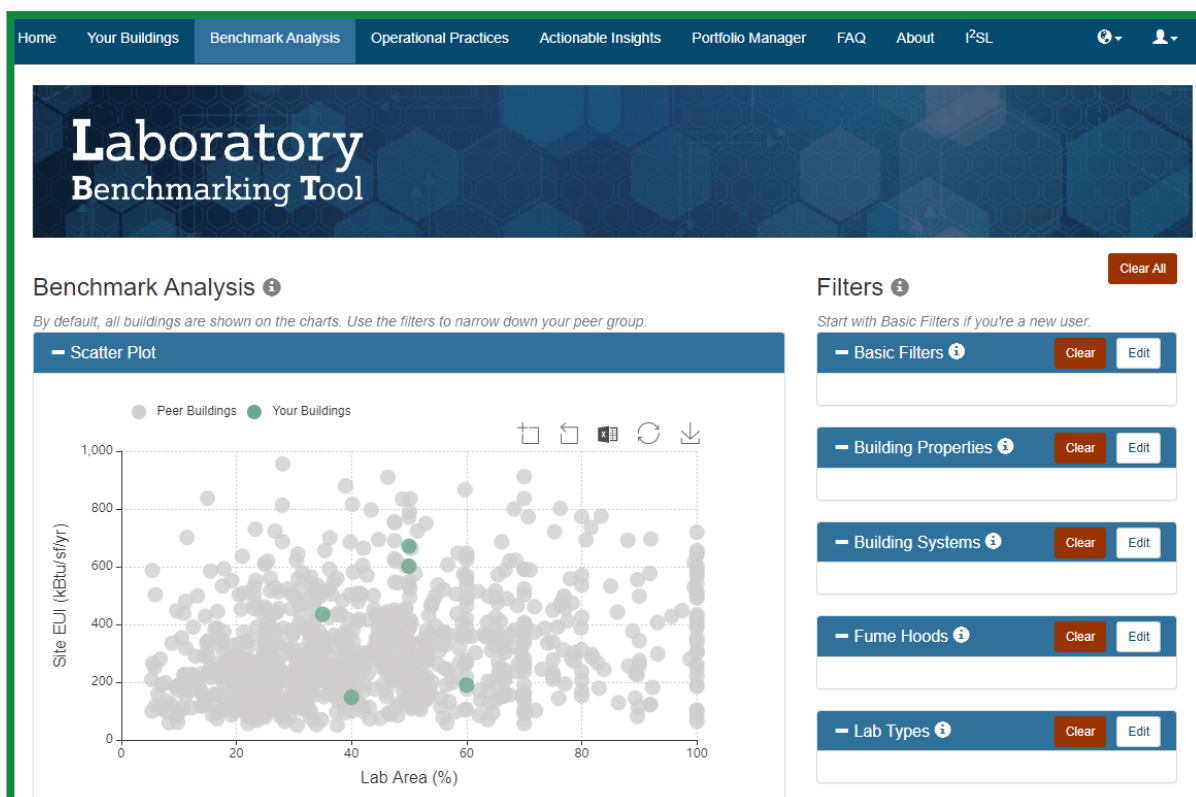
Laboratory Benchmarking Tool

Compare lab **building performance** and **gain insights** for improvement

International Institute for Sustainable Laboratories

Wondering how your facility stacks up against other, similar laboratories in terms of energy use or sustainability practices? Check out the International Institute for Sustainable Laboratories' Laboratory Benchmarking Tool (LBT). With a variety of comparison capabilities and an easy-to-use interface, the LBT allows facility owners, managers, engineers, and designers to enter data about their lab buildings to create a picture of sustainability performance.

The LBT provides access to an extensive energy use and operations dataset drawn from nearly 1,000 lab facilities. Its data visualization tools give you the power to compare your facility's performance with that of other lab buildings with similar functional requirements, locations, or heating and cooling systems. Available benchmarking metrics include energy intensity, greenhouse gas intensity, plug load intensity, lab ventilation policies, HVAC control types, and many more. The LBT also generates actionable insights that facility managers and designers can use to reduce their energy and emissions footprint, based on proven strategies used at other high-performing lab buildings.



The LBT is designed for use by a wide range of professionals. The tool can benchmark lab buildings from any sector—commercial, academic, R&D, government, and more. The LBT is now a global tool: in 2022, with support from Siemens Smart Infrastructure, I²SL completed the LBT Internationalization project. LBT users can now enter data for labs anywhere in the world and can use U.S. or metric units for benchmarking comparisons.

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Wondering if the LBT is for you? There are many reasons to use the LBT to benchmark your lab building's performance:

- Starting a conversation on building energy consumption
- Evaluating buildings' performance and sustainability practices against peers
- Identifying actionable insights to save energy and reduce emissions
- Prioritizing projects within your lab building portfolio
- Providing context for public energy disclosure data
- Supporting building performance standard development and implementation
- Completing AIA 2030 reporting, LEED O&M certification, and ASHRAE energy audits
- Helping to set—and measure—corporate environmental, social, and governance (ESG) goals

The LBT is a key component of today's efforts to decarbonize laboratories, and it forms the basis of I²SL's new Labs2Zero program. The more data added to the tool by LBT users, the more useful the dataset will be in providing a valuable energy and emissions scorecard for laboratories. I²SL encourages lab facilities around the world to use the LBT to analyze their energy use and learn about opportunities to improve performance and reduce their greenhouse gas emissions.

Visit <https://lbt.i2sl.org> to get started.

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