



Labs2Zero Pilot Energy Score

Labs2Zero is a voluntary program sponsored by the International Institute for Sustainable Laboratories (I2SL) that is dedicated to advancing the decarbonization of laboratories globally. The program, currently under development, will feature a variety of tools, including: scores for lab energy, operational emissions, and embodied emissions; customized reports on potential measures to improve labs' energy and emissions scores; certification of scorecard results; and training and accreditation to support certification. At the heart of Labs2Zero is the **I2SL Laboratory Benchmarking Tool (LBT)**, through which users who input lab energy use and building data can now receive a free Energy Score.



The Energy Score is currently in a pilot phase, during which I2SL encourages feedback from users to help improve the scoring system's accuracy. I2SL plans to release the official Version 1 of the Labs2Zero Energy Score in 2024.

How the Pilot Energy Score Works



Each lab building's energy performance is rated from 1 to 100, where 100 represents the highest performance. The rating is a percentile score, meaning that a building with a Pilot Energy Score of 85 would have better energy performance than 85 percent of similar facilities. The score takes into account the functional requirements driving the energy consumption of each lab building to calculate an energy "allowance."

The allowance factors are based on an analysis of the LBT's database, and include the amount of net lab space, lab type, hours of occupancy, and weather. The Pilot Energy Score is generated by comparing this allowance with the actual annual energy consumption of the building.

Labs2Zero Pilot Energy Scores are made available free of charge to LBT users thanks to the generous support of the program's Founding Sponsors. Pilot Energy Scores have been generated for all buildings in the LBT database, including any associated with existing accounts, so current LBT users can access their Pilot Energy Score immediately. The score is calculated separately for each year of data you provide, and it is updated automatically any time users update their data.

Help Improve the Energy Score!

During the pilot phase, I2SL is seeking feedback from users who have entered their buildings' data in the LBT and have obtained Pilot Energy Scores. For some types of lab buildings—including vivaria, manufacturing laboratories, pilot plants, crime labs, and healthcare labs—the peer group database does not yet contain enough data for a well-tuned score. Submitting data to the LBT on these types of facilities during the pilot phase will greatly help I2SL improve the accuracy of the Labs2Zero Energy Score.

LEARN MORE

Labs2Zero's pilot energy scoring system was developed by Lawrence Berkeley National Laboratory in 2023; more details are available on the [LBT FAQ page](#).

Please submit any feedback on the Labs2Zero Pilot Energy Score or the LBT to lbt@i2sl.org.