

## Do you continue to rely on the same outdated technologies for safe operations?

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### Choosing between safety and energy efficiency could have a negative effect on your talent, recruiting, and grant processes.

From managing budgets and funding sources to retaining top research talent and students, today's labs face an array of challenges—not to mention the need to stay current with changing regulations, compliance efforts, and the latest laboratory technologies.

And while achieving sustainability and energy efficiency objectives is a priority, the truth is that it often takes a back seat in favor of standard procedures for safe operations. Many lab managers continue to rely on the same technologies, solutions, and practices they best understand for safe operations. But these practices often represent unsustainable approaches to energy management, putting these organizations at risk of losing top research talent, new student enrollments, and additional grant opportunities.

### Are you at risk of losing top talent?

- 63%\* of students say a college's commitment to the environment affects their attendance choice
- 83%\*\* of Millennials—who will soon make up 50% of the workforce—say they would be more loyal to organizations that are socially and environmentally conscious in their operations

### Laboratories are inefficient, high energy consuming spaces



Energy demand in laboratories is...

**5–10X\*\*\* higher** than other commercial spaces

Lab ventilation rates can be as high as...

**12X per hour** but 4X<sup>o</sup> per hour may be sufficient to maintain safe, quality operations

Speaking of fume hoods... they're often left open beyond

**18" for weeks** at a time continuously wasting energy

Thanks to evolving air quality and safety standards, as well as new lab technologies, you no longer need to sacrifice energy efficiency in the name of safe operations. In fact, some of the operational practices you have come to rely on may no longer apply to your lab operations.

\*The Princeton Review. (2018, August). "The Princeton Review 2018 College Hopes & Worries Survey Report." Retrieved from <https://www.princetonreview.com/college-rankings/college-hopes-worries#Infographic>.

\*\*Cone Communications. (2016, November 2). "2016 Cone Communications Millennial Employee Engagement Study." Retrieved from <http://www.conecomm.com/research-blog/2016-millennial-employee-engagement-study>.

\*\*\*Alliance to Save Energy. (2015, May 28). "Improving Energy Efficiency in the Lab." Retrieved from <https://www.ase.org/blog/improving-energy-efficiency-lab>.

<sup>o</sup>LabManager.com. (2013, November 12). "How to Reduce Air Change Rates." Retrieved from <https://www.labmanager.com/how-it-works/2013/11/reducing-air-change-rates#.W7KDVS-ZPUJ>.



Focus on what's important:  
your research.

### What if you could address your need for safe operations while reducing energy consumption?

It is possible to achieve your laboratory operations goals by following a comprehensive, step-by-step process for identifying the most effective ways to keep your facilities, people, and assets safe, secure, comfortable, and compliant. And, you can do so without sacrificing energy efficiency and sustainability objectives. The process must start, however, with a thorough evaluation of your existing operations and an assessment of your goals and objectives.

#### The Siemens Green Lab Solution

Our program provides the service, technologies, and facility improvement measures (FIMs) designed to greatly reduce your energy consumption while taking a comprehensive approach to personnel safety, compliance, and comfort.

#### Comprehensive Green Lab Solution process



Regardless of the systems you have in place today, Siemens' Life Science stakeholders are experts in:



### Use energy savings to fund improvements in other areas of your lab.

- Achieve up to 50% energy savings and ROI within three years
- Ensure safe, secure, compliant lab environments
- Invest in additional researchers

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