

Sustainability

Innovation's new frontier

Today, sustainability is starting to transform laboratories and change the way researchers and scientists approach products, technologies, processes, and supply chains.

The key to progress, is innovation.



But going green can be challenging, especially in a scientific world

At a time of unprecedented scientific opportunity driven by advances in technology across engineering, physics, bioagriculture, and biomedicine, among others, it's no surprise that laboratories, at the forefront of scientific acceleration, face unique challenges when it comes to achieving **sustainability goals**.

The **average laboratory** consumes more energy per square foot than:¹



The U.S. Environmental Protection Agency estimates that **reducing laboratory energy use by 30%** would reduce US national energy consumption by:



What matters most in laboratories

85%

of laboratories surveyed in a global lab manager's survey have **sustainability goals** in place⁴

Over half have sustainability goals in place when designing workflows



Other important 'green' factors identified when setting sustainability goals



...all while optimizing workflow, increasing productivity, lowering costs and ensuring green purchasing decisions as well as making the lab a safer, healthier environment to work in.

Sustainability through innovation

Whether our innovations are helping customers **keep food supplies safe, reduce air or water pollution, find alternative energy sources or fight cancer and other diseases**, our goal is to **make a difference**.

Our customers' challenges, including environmental considerations, are the **drivers for our innovation**, which stems from careful consideration of everything from our suppliers and materials to product innovations and careful packaging. Below are Agilent innovations and initiatives that have the potential to:^{*}

Ensure adequate recycling

- Smarter Packaging
- Instrument Trade in / Buy Back

Reduce energy consumption

- Intuvo 9000 GC System
- 5110 ICP-OES
- 4210 MP-AES
- Cary 60 UV-Vis

Reduce hazardous waste

- IDP Dry Scroll Pumps
- InfinityLab Stay Safe Caps
- InfinityLab SFC Solutions
- Advanced Valve System (AVS) for 5110 ICP-OES and 4210 MP-AES
- OneNeb Nebulizer Technology

Reduce water consumption

- 4210 MP-AES

Advance green purchasing

- Smarter Packaging
- Energy and Water Management
- Innovative Technology
- Certified Pre-Owned Instruments

Reduce emissions

- 5110 ICP-OES

Reduce non-hazardous waste

- InfinityLab Stay Safe Caps

Reduce gas consumption

- GC High Efficiency Columns

Embedding sustainability into our organisation



At Agilent, we are committed to **delivering trusted answers that improve lives**. Working towards sustainability is an integral part of how we conduct business and respond to the greatest challenges of our customers in their quest to move boundaries in scientific research and discovery.

It is our responsibility to understand our impact on the environment and to commit to continuous innovation toward sustainability for ourselves, our customers and our planet.

You can learn more about Agilent's sustainability efforts in our corporate citizenship report at <https://www.agilent.com/environment/environment.shtml>

* The results of reduction in water and energy consumption, hazardous waste and emissions and improvement in recycling depend upon current volumes and output levels

1. Laboratories for the 21st Century. Updated 2017 – Labs21 Benchmarking Tool. <http://labs21benchmarking.lbl.gov/>
 2. Energy Information Administration (EIA) Commercial Buildings Energy Consumption Survey (CBECS). <https://www.eia.gov/consumption/commercial/about.php>
 3. International Institute for Sustainable Laboratories. Laboratories for the 21st Century. Toolkit. http://www.i2sl.org/documents/toolkit/lowenergy_508.pdf
 4. Understanding Key Challenges and Pain Points in the Global Laboratory Market Survey 2017. Agilent data on file