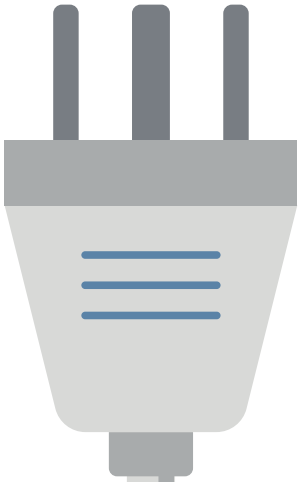
Agilent Waste Reduction Solutions

Advancing Science While Reducing Environmental Impact

Agilent



Labs use

10X

the energy of a typical office space.

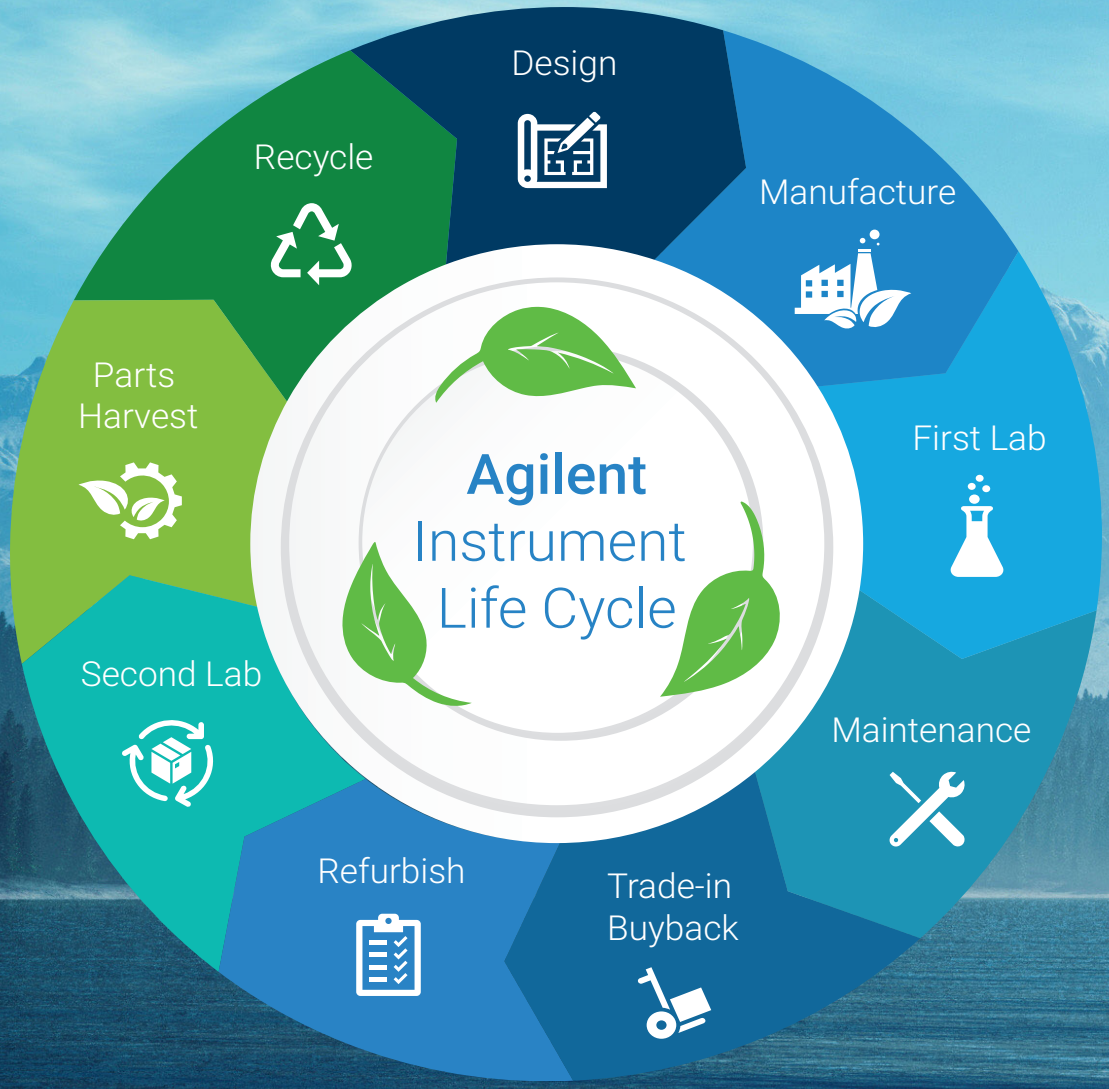
Every day, scientists are working to make a positive impact on people and the world around us. But with every breakthrough comes a responsibility.

Climate change is a defining challenge of our time—and lab operations, though vital to discovery, are inherently resource and waste intensive.

Research labs generate

12 billion pounds

of plastic waste each year.



At Agilent, the concept of a more sustainable lab isn't new.

We've established long-running programs that use circular economy principles where products live longer, materials stay in use, and waste is dramatically reduced to lower environmental impact at every step of an instrument's life cycle.

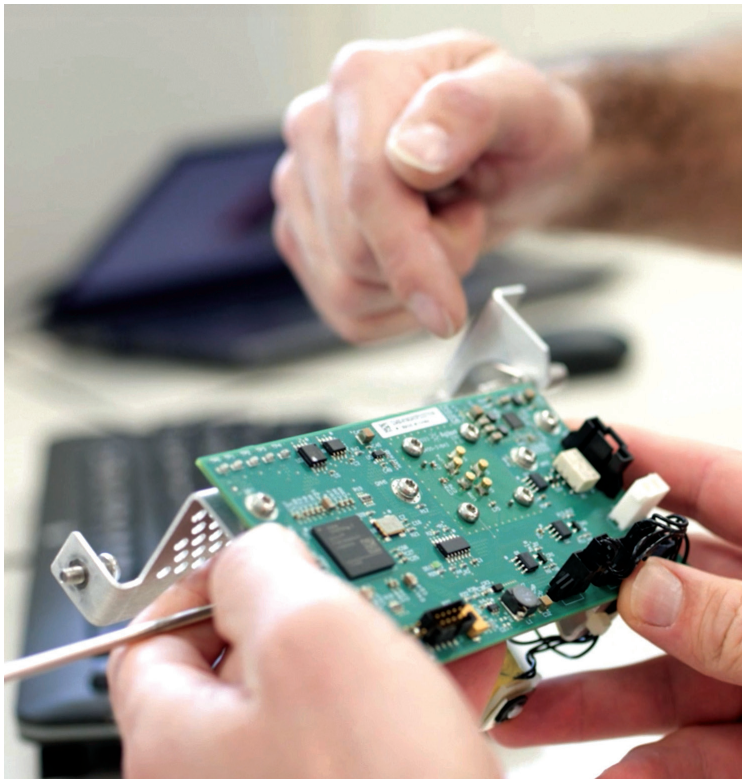
Click on an icon to explore.

Design

Agilent designs high-quality, innovative solutions with sustainability in mind to help reduce power and resource consumption for components such as consumables, gases, and solvents, while ensuring an extended lifespan. With the Agilent Value Promise guaranteeing at least 10 years of use, products are truly built to last. Learn more.

10 Years of Usable Life

Agilent Value Promise



Manufacture

Agilent has partnered with My Green Lab since 2020, becoming an early adopter of their ACT label program. The ACT Ecolabel provides third-party verified transparency around the environmental impact of our products, including manufacturing practices, and holds us accountable for continuous improvement. Learn more.

my green lab. ACT Ecolabel

ACT Ecolabel

Company Name
Product Name 000 Series
Additional Product Information
Product Type
SKU: 000000000
City, Region, Country

Environmental Performance Factor
54
Certified Month Year

Environmental Performance

Product	
Recycled/Renewable Content	30%
Chemicals of Concern	Yes
Electricity Consumed/Day	5 kWh
Water Consumed/Day	N/A
Refrigerant GWP	N/A
Supported Lifetime	7 years
Recyclable Materials*	40%
Circularity Support	Refurbishing Programs

Packaging	
Recycled/Renewable Content	60%
Shipping Method	Ambient
Recyclable Materials*	80%

Product Carbon Reporting	
Reporting Framework	ISO 14067
Review	Third-party
Product CO_2e*	1445 kg

Manufacturing Facility	
Best Practices	3/10
Renewable Electricity	80%
Renewable Energy	40%

Company GHG Reductions	
Scope 1/2/3 Tracking	Yes/Yes/Yes
Near-Term Target	Yes
Net-Zero Target	No

Improvements
Increased Renewable Energy
Increased Recycled Content (Packaging)
Scope 3 Tracking

Audit Details
Third-Party Reviewer: Auditor
*See Definitions

my green lab.

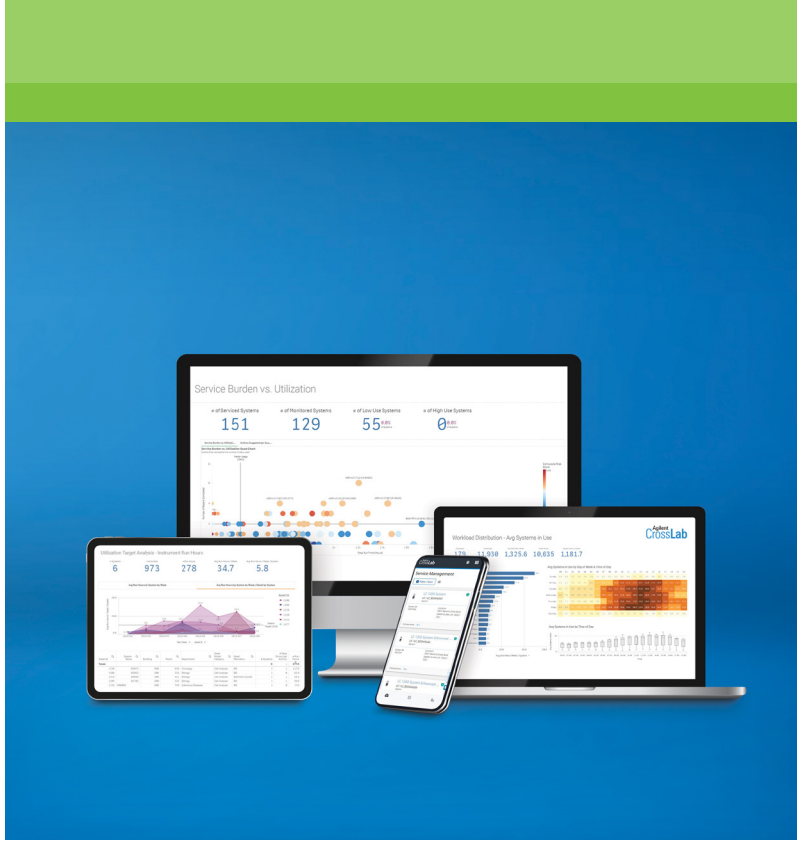
ACT VERSION 2.0 | ACTdatabase.mygreenlab.org/company | act.mygreenlab.org

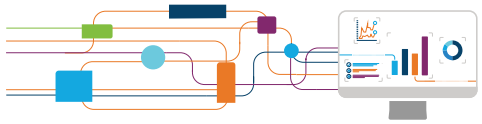
First Lab

Lab managers in high-throughput environments face growing pressure to meet sustainability goals with existing assets. Limited visibility into instrumentation usage and no clear baseline for resource consumption make it difficult to measure progress, reduce waste, or learn when it's time to retire an inefficient instrument—hindering meaningful sustainability improvements.

Agilent CrossLab Connect

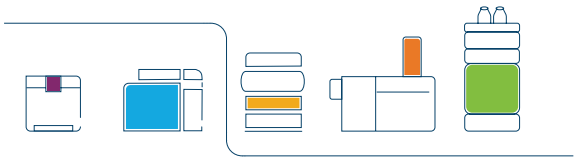
CrossLab Connect helps labs simplify asset management through centralized visibility and control. With actionable insights, teams can optimize performance and asset utilization while reducing downtime and waste. And, CrossLab Connect provides the metrics that labs need to identify and replace inefficient instruments. Learn more.





Simplify control of laboratory assets with visibility and access to all instrumentation.

Optimize lab performance capacity and throughput.



Transform operations to increase reliability and availability of laboratory assets.

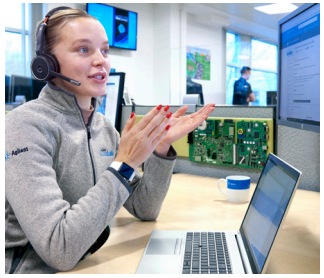
Maintenance

Extending the operational life of scientific instruments through regular service, preventive maintenance, and expert repair plays a crucial role in supporting the circular economy. By maximizing the use and value of existing equipment, organizations can reduce waste, conserve resources, and minimize the environmental impact associated with manufacturing and disposing of instrumentation.

Agilent CrossLab

CrossLab service plans—available for both Agilent and select non-Agilent instruments—enable your lab to reduce downtime, produce accurate, reliable data, comply with industry regulations, and extend the life of your instruments. Select plans also cover preventive maintenance, which is proven to lower repair costs and save days of downtime each year. Learn more.

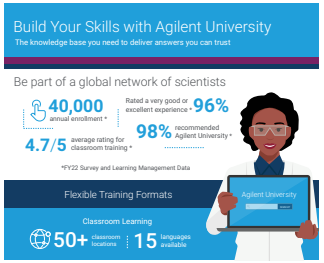
CrossLab Virtual Tech Support brings you live technical help using the tool best suited for the job—including phone, video conferencing, or the Agilent CrossLab Virtual Assist app. A part of many CrossLab service plans, this capability provides expert remote assistance for troubleshooting, maintenance, or application issues and reduces your lab's eco footprint by avoiding unnecessary travel or instrument shipments. Watch video.



Agilent CrossLab Learning Services

Invaluable online resources like Agilent University and the Agilent Community make it easy to strengthen operators' knowledge of their instrument, increasing uptime and longevity.

Agilent University improves lab operations and minimizes downtime with courses covering troubleshooting, maintenance, sample prep, and software operations for chromatography, mass spectrometry, spectroscopy, and more. View the infographic.



Agilent Community is a free, global forum where lab professionals connect to share knowledge, get expert advice, and find reliable answers fast. With over 23,000 users and oversight from Agilent experts, it's a trusted source for tips, troubleshooting, and staying current on lab technologies and methods. Join us.

Trade-in and Buyback

The Agilent Trade-in and Buyback Program covers everything from deinstallation, shipping, packaging, and customs fees—free of charge. The program is available in over 20 countries and uses reusable return packaging where possible. You may also get cash or credit for returned instructions.
Learn more.

Second Lab

The Agilent Certified Pre-Owned Instrument Program is a win-win: increasing the useful lifetime of our instruments by an average of 50%, while providing access to essential technology for budget-constrained labs to support their critical research needs.
Learn more.

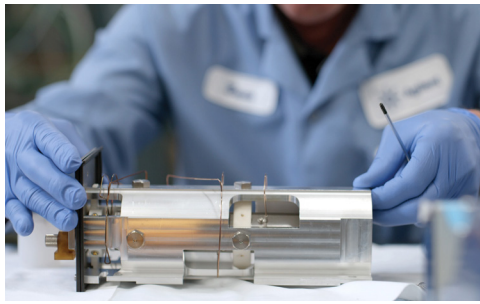
When you're ready to retire an instrument, we avoid landfill at all costs

Refurbish

Used instruments get a new life through refurbishment and resale through the Agilent Certified Pre-Owned Instrument Program. Active since 2013, the program includes over 200 products and refurbishes thousands of instruments each year.
Watch video.

Parts Harvest and Recycle

If an instrument cannot be refurbished, Agilent harvests as many parts as possible for reuse to sustain supply parts, prolonging the life of our oldest models. Parts that cannot be reused are recycled, transforming them into raw materials for new products. With Agilent taking on the end-of-life process, you'll know that your instruments are being disposed of responsibly.
Learn more.



Reduce, Reuse, and Extend

Waste reduction strategies for lab instruments

Building a more sustainable laboratory can feel overwhelming. Agilent offers a range of programs and services to help labs reduce resource consumption and minimize waste. From relocation and repair to trade-in, recycling, and reuse programs, these solutions support a more sustainable lab environment by extending instrument life and enhancing operational efficiency—all while advancing circular economy principles.

Most preferred

Least preferred

Reduce

Become more efficient to reduce waste

- Optimize workflows to reduce resource consumption
- Digitally connect to identify improvement opportunities
- Evaluate upgrading old, inefficient instruments

Repair

Run optimally and increase longevity

- Schedule routine preventive maintenance
- Utilize remote repair services
- Educate staff to strengthen operators' knowledge
- Leverage access to free user forums

Refurbish

Extend instrument life and value

- Trade in underutilized and older instruments
- Consider certified pre-owned instruments

Recycle

Keep materials in circulation

- Ensure recyclable materials are redirected from the waste stream
- Look for the How2Recycle logo for proper recycling instructions

Environmental stewardship

For decades, Agilent has been committed to environmental stewardship, diligently reporting our progress since 2000. Through our services and reuse programs, we've closed the loop on our instruments, reduced environmental impact, and eased the strain on our planet's finite resources. Building on this legacy, Agilent announced in 2021 a commitment to achieving net-zero greenhouse gas emissions by 2050.

Partner with Agilent to turn sustainability goals into action. Together, we can bring Great Science to life with waste reduction and circularity in mind.

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Agilent
Trusted Answers