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:

- 85% of laboratories surveyed in a global lab manager’s survey have sustainability goals in place.
- Over half have sustainability goals in place when designing workflows.
- Other important ‘green’ factors identified when setting sustainability goals.
- The U.S. Environmental Protection Agency estimates that reducing laboratory energy use by 30% would reduce US national energy consumption by:
  - 84 trillion Btus of saved energy
  - 1.3 million cars off highways

...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

- Reduce energy consumption
  - Intuvo 9000 GC
  - 5800/5900 ICP-OES
  - Cary 3500 UV-Vis
  - TwisTorr 305

- Reduce hazardous waste
  - DP-dry scroll pumps
  - InfinityLab Stay Safe Caps
  - InfinityLab UPLC Solutions
  - Agilent Poroshell 120 Columns
  - Oneida Nebulizer Technology

- Reduce water consumption
  - Intuvo 1000 GC

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

- Reduce emissions
  - 5800/5900 ICP-OES

- Reduce non-hazardous waste
  - InfinityLab Stay Safe caps
  - Cary 500 FTIR
  - 8900 ICP-QQQ
  - T8100

- Reduce gas consumption
  - Intuvo High Efficiency GC columns
  - 8700 LDIR
  - 9900 Mass GC
  - 8890 GC

Throughout this document, we've included links to more information about sustainability and Agilent’s efforts. Check them out with the links provided.

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.

Sustainability’s new frontier

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

4 Understanding Key Challenges and Pain Points in the Global Laboratory Market Survey 2017. Agilent data on file

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